

City of Cincinnati  
Ohio

Approved  
2011/2012  
Biennial Budget

Volume II:  
2011-2016  
Capital Investment Program



# City of Cincinnati

## All Funds Biennial Budget



### Approved 2011/2012 Biennial Budget 2011-2016 Capital Investment Program

#### **Mayor**

Mark Mallory

#### **Members of City Council**

Jeff Berding

Chris Bortz

Leslie Ghiz

Chris Monzel

Roxanne Qualls (Vice Mayor)

Laure Quinlivan

Cecil Thomas

Charlie Winburn

Wendell Young

#### **City Administration**

Milton Dohoney, Jr., City Manager

Scott Stiles, Assistant City Manager

David Holmes, Assistant City Manager

Lea D. Eriksen, Budget Director

Reginald Zeno, Finance Director

Kathleen A. Creager, Assistant Finance Director

THIS PAGE INTENTIONALLY LEFT BLANK



GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished  
Budget Presentation  
Award*

**PRESENTED TO**  
City of Cincinnati  
Ohio

**For the Biennium Beginning**

January 1, 2009

*Michael R. ...*  
President

*Jeffrey L. Esser*  
Executive Director

The Government Finance Officers Association of the United States and Canada (GFOA) presented an Award for the Distinguished Budget Presentation to the City of Cincinnati for its annual budget beginning January 1, 2009.

In order to receive this award, a governmental unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan and as a communications medium.

The award is valid for a period of one year only. We believe our current biennial budget continues to conform to program requirements, and we are submitting it to GFOA to determine its eligibility for another award.

**City Manager's Office  
Office of Budget and Evaluation  
801 Plum Street, Suite 142  
Cincinnati, OH 45202  
513.352.3232  
513.352.3233 (fax)**



**Lea D. Eriksen                      Budget Director**

Oren J. Henry	Supervising Management Analyst
Jonathan R. Ingram	Supervising Management Analyst
Peggy Sandman	Supervising Management Analyst
Brian N. Gay	Management Analyst
Dawn M. Geoppinger	Senior Management Analyst
Melanie E. Jones-Gant	Management Analyst
Arancha Lattanzio	Management Analyst
Paul Popovich	Senior Management Analyst
Susan Pratt	Senior Management Analyst
Max Warner	Management Analyst
Mary Moore	Administrative Specialist
Holly H. Zistler	Senior Management Analyst

**The Office of Budget and Evaluation acknowledgements to the Finance Department staff and the Agency Budget Coordinators.**

Finance Department:	Chris Bigham	Finance Manager
	Pamela Sacherman	Supervising Accountant

Agency Budget Coordinators:

Clerk of Council	Brenda Williams	Human Resources	Lisa Berning
Office of the City Manager	Kia Jones	Law	Kim Proffitt
Cable	Frank Clark	Parking Facilities	Doug Smith
Budget & Evaluation	Mary Moore	Parks	Marijane Klug
Citizen Complaint &		Planning & Buildings	Loretta Howard
Internal Audit (CCIA)	Michelle Bonner	Police	Ella Topham
Community Development	Peggy Roger	Public Services	Robert Hall
Duke Energy			Joel Koopman
Convention Center	Alice Hocter		Maria Menke-Sunderhaus
Economic Development	Diane Powers		Kimberly Nixon &
Enterprise Technology Solutions	Gerry Torres		Brien Phillips
Environmental Quality	Joseph Charlton	Recreation	Steve Pacella &
Finance	Julia Bradley		Cheryl Watson
Accounts & Audits	Linda Weigand	Retirement	Paula Tilsley
City Treasury	Bill Feldman	Sewers	Mark Filippi &
Income Tax	Teresa Gilligan		Amy May
Purchasing	Bobbi Hageman	Transportation &	
Risk Management	Karen Alder	Engineering	Bryan Carter
Fire	Ronnise Handy &	Water Works	Steve Hellman &
	Waleia Jackson		Janet Klenk
Health	Robert Schlanz &		
	Jim Wimberg		

The City of Cincinnati's Approved 2011/2012 Biennial Budget volumes are also available via the City of Cincinnati's web site – [www.cincinnati-oh.gov](http://www.cincinnati-oh.gov). Copies have also been provided to the Cincinnati/Hamilton County Public Library's Main Branch.

**APPROVED 2011/2012 BIENNIAL BUDGET  
2011-2016 CAPITAL INVESTMENT PROGRAM  
VOLUME 2**

**TABLE OF CONTENTS**

**INTRODUCTION**

**EXECUTIVE OVERVIEW**

Introduction.....	11
Analysis of Available Resources .....	14
Analysis of Expenditures.....	18

**SUMMARY REPORTS**

Section 1: Projects by Program.....	39
Section 2: Projects by Neighborhood .....	53

**OPERATING BUDGET IMPACT .....71**

**DEPARTMENTS: SUMMARIES AND APPROVED PROJECT DESCRIPTIONS**

City Manager .....	77
Community Development.....	81
Enterprise Technology Solutions.....	87
Enterprise Services .....	91
Finance.....	95
Fire.....	97
Health.....	101
Law .....	103
Parks .....	105
Planning and Buildings.....	107
Public Services.....	109
Recreation .....	115
Sewers.....	119
Transportation and Engineering .....	181
Water Works.....	201

THIS PAGE INTENTIONALLY LEFT BLANK

## INTRODUCTION

This document includes the Approved 2011/2012 Capital Budget for the City of Cincinnati. The Capital Budget, which provides funding for improvements with a useful life of at least five years, includes General Capital projects, Restricted Funds Capital projects, and projects supported with Federal and State Capital Grant Matching Funds. This budget represents the first two years of a six-year Capital Investment Program.

Following this introductory section is the Executive Overview, which is followed by two summary reports: Projects by Program and Projects by Neighborhood. The summary reports are followed by the Operating Budget Impact report, which provides a description of the Capital Budget's impact on the Operating Budget. An individual section for each departmental 2011-2016 Capital Improvement Program follows the Operating Budget Impact report.

### Approved Capital Budget – Overview

(In \$ Millions)

<b>Approved All Funds Capital Budget Summary</b>					
	<b>2010</b>	<b>2011</b>	<b>% Change 2010 to 2011</b>	<b>2012</b>	<b>% Change 2011 to 2012</b>
General Capital	\$ 63.1	\$ 55.8	-11.6%	\$ 55.5	-0.5%
Restricted Funds Capital	201.8	267.9	32.8%	213.5	-20.3%
Federal/State Capital Matching Funds	1.6	9.6	500.0%	6.6	-31.3%
<b>Total All Funds:</b>	<b>\$ 266.5</b>	<b>\$ 333.3</b>	<b>25.1%</b>	<b>\$ 275.6</b>	<b>-17.3%</b>

The All Funds Capital Budget totals \$608.9 million: \$333.3 for 2011 and \$275.6 million for 2012. When compared to the 2010 All Funds Capital Budget, the 2011 budget increases by 25.1%. In 2012, the budget decreases by 17.3% when compared to 2011. The capital budgets will vary somewhat from year-to-year to reflect timing of projects and changes in resources.

For 2011, the \$66.8 million net increase over the 2010 All Funds Capital Budget occurs primarily because of the following changes:

- A \$66.1 million net increase in Restricted Funds Capital due to a \$72.7 million increase in Metropolitan Sewer District projects, a \$4.6 million decrease in Greater Cincinnati Water Works projects, a \$1.5 million decrease in Stormwater Management Utility projects, and a net decrease of \$0.5 million in other restricted funds;

## 2011/2012 Approved Capital Budget

---

- A General Capital net decrease of \$7.3 million due to a decrease of \$4.0 million in Income Tax Proceeds, a decrease of \$2.0 million in the Property Tax Supported Bonds resource, a decrease of \$2.0 million in the Income Tax Supported Bonds resource, and the elimination of the Blue Ash Airport Sale Proceeds as a resource (\$250,000). These decreases are offset by a net increase of \$0.9 million in Southern Railway Note Proceeds and Reprogramming resources; and
- A net increase in Federal and State Capital Grant Matching Funds of \$8.0 million, which is primarily due to an increase of \$4.6 million in Federal and State grant funds for improvements to Hamilton Avenue and an increase of \$2.1 million in American Recovery and Reinvestment Act resources for the Waldvogel Viaduct Replacement project.

The budget decrease of \$57.7 million in 2012 when compared to 2011 is due primarily to the following changes:

- A \$54.4 million net decrease in Restricted Funds Capital due to a reduction of \$57.3 million in Metropolitan Sewer District projects, an increase of \$4.3 million in Greater Cincinnati Water Works projects, a decrease of \$1.3 million in Special Revenue Capital funding, and a net decrease of \$0.1 million in other restricted funds;
- A net decrease of \$0.3 million in General Capital resources; and
- A net decrease of \$3.0 million in Federal and State Capital Grant Matching Funds.

### GENERAL CAPITAL INVESTMENT HIGHLIGHTS

#### *Resources*

**(In \$ Millions)**

<b>GENERAL CAPITAL RESOURCES</b>		
	<b>2011</b>	<b>2012</b>
Property Tax Supported Bonds	\$ 20.0	\$ 18.0
Southern Railway Note Proceeds	17.9	18.3
City Income Tax	8.7	8.7
Income Tax Supported Debt	8.0	10.0
Reprogramming	1.2	0.5
<b>Total Resources:</b>	<b>\$ 55.8</b>	<b>\$ 55.5</b>

The 2011/2012 General Capital Budget is balanced to estimated resources. For 2011, the estimated General Capital Budget resources total \$55.8 million, while the estimated resources for 2012 total \$55.5 million. General Capital resources include Property Tax Supported Bonds (2011 - \$20.0 million; 2012 - \$18.0 million), Southern Railway Note Proceeds (2011 - \$17.9 million; 2012 - \$18.3 million), the City Income Tax that is not used to support Income Tax Supported Debt (\$8.7 million in 2011 and 2012), Income Tax Supported Debt (2011 - \$8.0 million; 2012 - \$10.0 million), and Reprogramming Resources (2011 - \$1.2 million; 2012 - \$0.5 million). Please refer to the Executive Overview of this document for a detailed description of the General Capital resources.

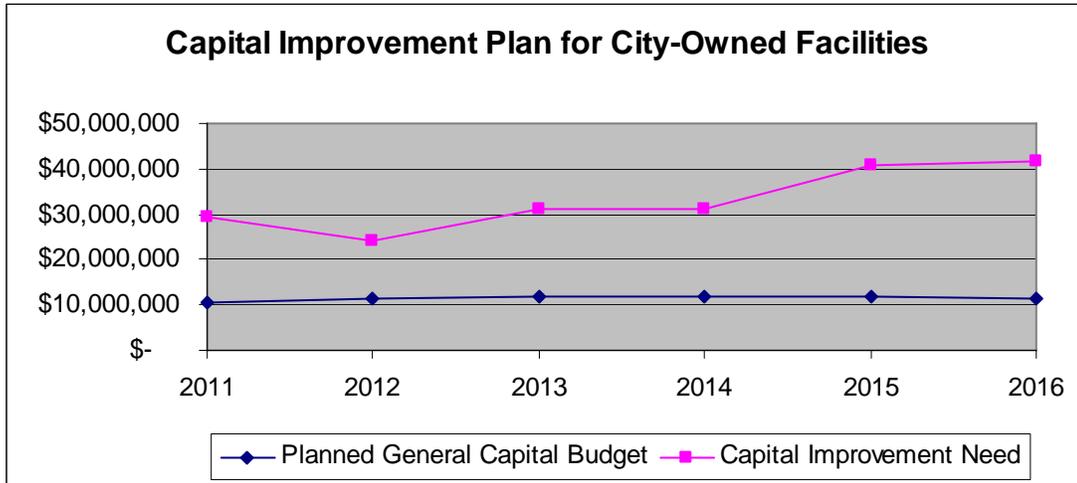
### *Expenditures*

The following is a list of expenditure highlights in the General Capital Budget.

1. **\$33.8 Million to Renovate/Replace City Facilities.** A total of \$17.3 million in 2011 and \$16.6 million in 2012 is included for renovation and replacement of existing City-owned facilities. The biennial budget includes \$12.5 million for Park facilities (which includes \$6.0 million for the Cincinnati Riverfront Park project), \$9.1 million for Recreation facilities, and \$512,000 for Health facilities. Upgrades to other City-owned facilities are included at a funding level of \$5.9 million over the biennium.

The General Capital Budget includes \$5.9 over the biennium for the replacement of City facilities. This funding includes \$3.5 million for the I-75 Expansion/Public Services Relocation project. (Please see #7 below for a detailed explanation of this project.) Also, \$2.4 million is included for the Replacement Facilities project, which will support the construction of a new fire station in Pleasant Ridge and either Westwood or Madisonville. Over the six-year plan, \$11.7 million is included for the replacement of existing facilities.

It should be noted that the total estimated capital improvements “need” for City-owned facilities for 2011-2016 totals \$197.9 million, while the planned allocation amount for improvements to City facilities is \$68.5 million, generating a shortfall of \$129.4 million. In just the biennium, the total need is \$53.5 million, the approved budget totals \$21.9 million, and the estimated shortfall for capital improvements for City facilities is \$31.6 million. The following chart illustrates the gap between the planned General Capital Budget spending over the 2011-2016 Capital Investment Program and the need for capital improvements.



- \$27.5 Million for Street Rehabilitation and Street Improvement Projects.** The General Capital Budget for rehabilitation and improvement of existing streets and roads totals \$13.7 million in both 2011 and 2012. This includes \$9.7 million and \$10.5 million for the Street Rehabilitation Program in 2011 and 2012, respectively. Over the six-year plan, \$83.9 million is included for street rehabilitation and street improvements, which includes \$63.2 million for the Street Rehabilitation Program.

Major street reconstruction projects, in addition to Street Rehabilitation, total \$4.0 million in 2011 and \$3.2 million in 2012. The Street Improvements project is funded in the amount of \$1.9 million over the biennium. Funding for other major street reconstruction projects includes: \$1.7 million for the Western Hills Viaduct Repair/Replacement project; \$840,000 for the Curb Ramps-Street Rehabilitation project; \$800,000 for the Uptown Access Improvements West MLK Drive project; and \$500,000 for the Harrison Avenue Improvements project.

The rising cost of construction and decreasing General Capital resources will impact the Department of Transportation and Engineering’s (DOTE) ability to achieve the department’s goal established by the City Council to rehabilitate 100 lane miles each year. In recent years the department has been successful in leveraging outside grants to extend resources. Nevertheless, in 2009 DOTE rehabilitated 91 lane miles and the goal was not achieved. In the upcoming biennium many outside grants will not be available; therefore, the projection is only 71 and 76 lane miles to be rehabilitated in 2011 and 2012, respectively. Funding for the Street Rehabilitation project is \$20.2 million over the biennium, compared to \$22.9 million that was approved for this project over the previous biennium.

In addition to the Street Rehabilitation and Street Improvement projects, \$7.7 million is included for annual infrastructure projects that are not related to streets and buildings. This includes the following projects: \$2.3 million for the Bridge Rehabilitation Program; \$1.7 million for the Wall Stabilization and Landslide Correction Program; \$1.8 million for the Spot Infrastructure Replacement Program;

## 2011/2012 Approved Capital Budget

---

\$1.5 million for the Sidewalk Repair Program; and \$500,000 for the Hillside Stairway Rehabilitation Program.

The All Funds Biennial Capital Budget also includes \$9.6 million in 2011 and \$6.6 million in 2012 from State and Federal transportation matching funds. Over the biennium, the City expects to receive \$4.6 million for the Hamilton Avenue Ashtree to Windmere project, \$4.2 million for the Harrison Avenue Improvements project, and \$2.1 million for the Waldvogel Viaduct Replacement project. Other matching fund projects include the Computerized Traffic Control System project and the Ohio River Trail project.

3. **\$12.5 Million for Economic Development.** Economic development initiatives in the General Capital Budget total \$7.0 million in 2011 and \$5.5 million in 2012. The Economic Development Opportunities project is included for \$1.4 million in 2011, which will provide resources to acquire land/property when access to funding is immediately needed to rapidly capitalize on an economic development opportunity. Also, \$300,000 will support the National Underground Railroad Freedom Center Permanent Exhibit project in 2011, which will support the demolition and reconfiguration of a section of the center to accommodate a new permanent exhibit titled "Invisible."

Over the biennium, \$2.6 million is included for the Retail/Commercial Opportunities project. This project helps the City to attract and retain retail and commercial business downtown. Also included over the biennium is \$2.0 million for the Neighborhood Business District Public Improvements project and \$2.0 million is included for the Port Authority project. (Please see #9 below for a detailed explanation of this project.) Various other projects totaling \$4.2 million are included for economic development in 2011 and 2012. Over the six-year plan, \$30.6 million is included for economic development initiatives.

4. **\$10.6 Million for Equipment.** The General Capital Budget includes \$4.9 million and \$5.7 million for equipment in 2011 and 2012, respectively. This includes \$9.0 million over the biennium for the Fleet Replacements project. Various other projects totaling \$1.6 million are included over the biennium for equipment. Over the six-year plan, \$33.7 million is included for equipment.

The Fleet Replacements project supports the replacement of automotive and motorized equipment for City agencies supported by the General Fund. Currently, 1,685 out of 2,419 pieces of motorized equipment are out of lifecycle in General Fund agencies because they have exceeded the established standards for maximum mileage, age, or maintenance costs. An additional \$2.7 million a year for ten years would be needed to initiate a program to bring the fleet into lifecycle. Maintaining equipment beyond the recommended lifecycle increases departmental operating budgets for fleet maintenance.

2011/2012 Approved Capital Budget

5. **\$7.7 Million for Market Rate Housing Development Projects.** The budget for developing market rate housing throughout the City totals \$4.5 million in 2011 and \$3.2 million in 2012. Over the six-year plan, \$19.8 million is included for this initiative. These funds will be used for construction, site improvements, and infrastructure development at residential locations. In 2012, Special Housing Permanent Improvement Fund resources are expected to decrease significantly due to the expiration of the Westin/Star tax increment financing payments. The following table illustrates the total funding for market rate housing.

(In \$ Millions)

MARKET RATE HOUSING			
	2011	2012	Six-Year Plan
Neighborhood Market Rate Housing	\$ -	\$ 1.0	\$ 4.4
Strategic Housing Initiatives Program	1.2	0.9	5.2
Downtown Housing Development	0.6	0.7	4.0
Citirama	0.8	-	2.4
Special Housing Permanent Improv. Funds	1.9	0.6	3.8
TOTAL:	\$ 4.5	\$ 3.2	\$ 19.8

6. **\$6.0 Million for Cincinnati Riverfront Park.** The 2011/2012 General Capital Budget includes \$6.0 million for the Cincinnati Riverfront Park project. In 2011 funding will be used for construction of Phase I of the project, which will cover the eastern side of the Park (east of the Roebling Bridge) and will include the Grand Fountain, Grand Stairs, Great Grand Lawn, a Tree Grove, a Play Area, and various other elements of the new park. Funding in 2012 will be used for construction of Phase II of the project, which will allow the northern edge of the park to develop in tandem with the southern edge of the Banks Development.
7. **\$3.5 Million for the I-75 Expansion/Public Services Relocation Project.** The 2011/2012 General Capital Budget includes \$3.5 million for the I-75 Expansion/Public Services Relocate project. In 2007, the Ohio Department of Transportation (ODOT) started the process of redesigning the I-75 corridor. In April 2010, ODOT began the I-75 Mill Creek Expressway Phase 2 Improvement Project. This project requires the removal of the Monmouth Street overpass and pedestrian bridge. It will also require the destruction of the building located at 3241 Cormany Street and will necessitate the relocation of all functions performed at this site. This building houses Public Services Administrative offices and the Traffic and Road Operations storeroom. This project will provide funding for construction of a new facility for the Public Services Administration offices and the Traffic and Road Operations storeroom and the installation of a new ramp for the salt dome.
8. **\$2.3 Million for Information Technology Initiatives and Upgrades.** To continue to support new information technology and upgrades for existing systems, the General Capital Budget includes \$1.1 million in 2011 and \$1.2 million in 2012 for information technology initiatives. Over the biennium, \$456,000 is included for the

## 2011/2012 Approved Capital Budget

---

Communications Master Plan project, which will support the development of a multi-year strategy for upgrading the City's communications resources including voice, data, and video. The Electronic Government project is included in the amount of \$411,700 to enhance services provided via the Internet for City employees and citizens. Various other projects totaling \$1.4 million are included for information technology improvements over the biennium. Over the six-year plan, \$6.3 million is included for information technology projects.

9. **\$2.0 Million for the Port of Greater Cincinnati Development Authority.** The 2011/2012 General Capital Budget includes \$2.0 million for the Port Authority project which will provide resources for the Port of Greater Cincinnati Development Authority to execute place-based strategies for new business and residential investment. On September 29, 2010 the City Council adopted a motion (Doc. #201001339) that directed the Administration to allocate \$1.0 million in the Capital Budget in both 2011 and 2012 for the Port of Greater Cincinnati Development Authority.

### **RESTRICTED/SPECIAL REVENUE/MATCHING FUND HIGHLIGHTS**

1. **Metropolitan Sewer District (MSD) Improvements: \$362.9 Million** – The Capital Budget for MSD is \$210.1 million in 2011 and \$152.8 million in 2012. The Wet Weather Improvement Program (WWIP) alone accounts for more than 50% of the budget over the biennium: in 2011 the WWIP totals \$95.5 million and in 2012 the program totals \$90.1 million. This program will implement sewer improvements as required by the Global Consent Decree, Clean Water Act regulations, and state and federal mandates.
2. **Greater Cincinnati Water Works Capital Improvements: \$109.3 Million** – Capital improvements for the Greater Cincinnati Water Works total \$52.5 million in 2011 and \$56.8 million in 2012. The majority of the projects are dedicated to maintaining, replacing, or rehabilitating water mains, pumping stations, and water storage vessels. Continued funding is included for the installation of Ultraviolet Disinfection treatment technology at the Richard Miller Treatment Plant. This new treatment technology is intended to maintain compliance with the next round of US Environmental Protection Agency (EPA) Safe Drinking Water regulations. Funding is also included for expansion projects related to two new wholesale customers: the City of Lebanon and South Lebanon.
3. **Stormwater Management Improvements: \$2.8 Million** – The Stormwater Management Utility Capital Budget includes \$1.7 million in 2011 and \$1.1 million in 2012. In 2011, an amount of \$874,000 is needed to resolve drainage issues along Guerley Road in West Price Hill, which experiences flooding during heavy rain events. Over the biennium, \$500,000 is included for the 3674 Hillside Avenue Stormwater Intake Improvements project to help stabilize the steep hillside and improve drainage along Hillside Avenue.

4. **Improvements for Parking Facilities: \$1.9 Million** – The 2011 Capital Budget for improvements to City parking facilities totals \$586,500 and the 2012 Capital Budget totals \$1.3 million. Over the biennium, \$1.8 million is included for structural maintenance and repairs and \$100,000 for the Gateway Garage Capital Improvements project to comply with the City’s agreement with the Kroger Company (Ord. #300-2003), requiring an annual allocation of \$50,000 for improvements to the garage. Also, \$6,300 is included for the Parking Facilities Fund portion of the CFS Upgrade project.
5. **Lunken Airport Improvements: \$1.1 Million** – Funding for improvements at Lunken Airport totals \$555,500 in 2011 and \$577,800 in 2012. In both years of the biennium, funding is included for infrastructure improvements, facility improvements, and Federal Aviation Administration (FAA)/Ohio Department of Transportation (ODOT) local match funding.
6. **Convention Center Improvements: \$641,800** – Funding for improvements to the Duke Energy Convention Center totals \$411,800 in 2011 and \$230,000 in 2012. Over the biennium, \$479,200 is included for the Capital Maintenance project, \$118,800 is included for the Building Equipment project, and \$43,000 is included for the Furniture, Fixtures, and Equipment project. Also, \$800 is included for the Convention Center Fund portion of the CFS Upgrade project.
7. **Special Revenue Capital: \$2.5 Million** - The Capital Budget for the Special Housing Permanent Improvement Fund (SHPIF) is \$1.9 million in 2011 and \$0.6 million in 2012. This fund is supported with tax increment payments which are used to assist with the development of market rate housing. In 2012, SHPIF resources will be significantly reduced because the Westin/Star tax increment financing payments will expire.
8. **Federal and State Capital Grant Matching Funds: \$16.2 Million** - The City receives Federal and State matching funds to improve the City's roads and bridges. Additionally, funds are received annually from the Federal Aviation Administration (FAA) for improvements to Lunken Airport and Blue Ash Airport. Projected Federal and State Capital Matching Funds total \$9.6 and \$6.6 million in 2011 and 2012, respectively. Over the biennium, the City expects to receive \$4.6 million for the Hamilton Avenue Ashtree to Windmere project, \$4.2 million for the Harrison Avenue Improvements project, and \$2.1 million for the Waldvogel Viaduct Replacement project. Grant funding is also expected to be received for the Computerized Traffic Control System project and the Ohio River Trail project.

#### **SMALL INFRASTRUCTURE APPROPRIATION REQUIREMENTS MET**

In 1988, the voters of the City of Cincinnati approved a 0.1% increase to the municipal income tax on earned income to provide funding for costs related to the construction,

## 2011/2012 Approved Capital Budget

operation, and maintenance of the City's infrastructure. Mr. John Smale, Chief Executive Officer of the Procter and Gamble Company in 1986, served as chairman of an independent commission that recommended infrastructure improvements and the tax increase.

As part of the ballot initiative that created the tax-supported revenue stream to support the City's infrastructure, the City is to maintain a base appropriation amount for infrastructure. The base amount is adjusted annually to reflect inflationary increases. The estimated base amount is \$62.3 million in 2011.

The 2011/2012 General Capital Budget includes \$39.0 million in 2011, \$39.1 million in 2010, and \$219.9 million over the six-year plan for the renovation and/or replacement of existing City infrastructure assets. The Biennial Capital Budget amounts, combined with Operating Budget infrastructure maintenance commitments of approximately \$28.3 million in both 2011 and 2012, provide the City with sufficient coverage to meet the legal spending requirements needed to maintain the 0.1% portion of the income tax dedicated to infrastructure.

The following is a list of General Capital Budget expenditure highlights for Smale Infrastructure projects:

**(In \$ Millions)**

<b>SMALE INFRASTRUCTURE PROJECTS</b>		
	<b>Biennial</b>	<b>Six-Year</b>
Neighborhood Street Rehabilitation	\$20.2	\$63.2
City Facility Renovations/Replacements	\$33.8	\$83.2
Street and Road Improvements	\$7.3	\$20.7
Annual Infrastructure Programs	\$7.7	\$22.3
Miscellaneous Smale Programs	\$9.1	\$30.5
<b>TOTAL:</b>	<b>\$78.1</b>	<b>\$219.9</b>

## CONCLUSION

The City of Cincinnati's 2011/2012 Capital Budget represents the most prudent allocation of resources to preserve the City's assets. However, declining General Capital resources, most notably Income Tax Proceeds, drastically limits our ability to address City facility needs, rehabilitate streets, provide infrastructure improvements to promote investment, and furnish our employees with up-to-date equipment to work efficiently. Facing these challenges, the Administration has devoted many months of careful review and analysis of the City's ever-growing infrastructure demands. This 2011/2012 General Capital Budget maintains the City's assets while also providing adequate coverage to meet the legal spending requirements to maintain the 0.1% portion of the income tax dedicated to infrastructure.

**2011/2012  
All Funds Capital Budget Summary**

	Approved 2010	Approved 2011	Approved 2012	Approved 2011-2016
<b>Capital Budget</b>				
<b>General Capital</b>	<b>\$63,077,300</b>	<b>\$55,760,000</b>	<b>\$55,500,000</b>	<b>\$315,315,000</b>
<b>Restricted Capital</b>				
Cable Communications	250,000	0	0	0
Convention Center	866,000	411,800	230,000	1,561,800
General Aviation	535,700	555,500	577,800	3,663,700
Income Tax Transit	100,000	100,000	100,000	600,000
Metropolitan Sewer District	137,386,800	210,069,000	152,794,300	1,409,182,900
Parking System Facilities	450,000	586,500	1,299,300	6,281,800
Stormwater Management Utility	3,235,000	1,695,000	1,062,000	5,317,000
Telecommunications Services	430,000	30,000	30,000	180,000
Water Works	57,166,000	52,527,500	56,786,500	332,080,000
<b>Total Restricted Funds</b>	<b>\$200,419,500</b>	<b>\$265,975,300</b>	<b>\$212,879,900</b>	<b>\$1,758,867,200</b>
<b>Special Revenue Funds Capital</b>				
Special Housing Perm. Imprv. Fund	<b>\$1,389,900</b>	<b>\$1,887,500</b>	<b>\$621,900</b>	<b>\$2,509,400</b>
<b>Matching Capital Funds</b>				
State-Federal-County Roads & Bridges	\$1,494,560	\$9,467,500	\$6,411,000	\$15,878,500
Federal Aviation Administration	150,000	150,000	150,000	300,000
<b>Total Matching Funds</b>	<b>\$1,644,560</b>	<b>\$9,617,500</b>	<b>\$6,561,000</b>	<b>\$16,178,500</b>
<b>Total All Funds Capital Budget</b>	<b>\$266,531,260</b>	<b>\$333,240,300</b>	<b>\$275,562,800</b>	<b>\$2,092,870,100</b>

## EXECUTIVE OVERVIEW

## **EXECUTIVE OVERVIEW**

### **I. INTRODUCTION**

A capital improvement or capital project is defined as the purchase or improvement of a City asset, including construction or rehabilitation which provides an asset for the City's use or, in the case of an existing asset, increases the value of the public asset or extends its useful life. Capital improvements are made to improve the value of City assets, and are relatively large expenditure items compared with operating budget items. The City Council may also designate a capital improvement through its authority to establish public policy and identify a public purpose when making capital improvement expenditures. A capital improvement is expected to have a useful life of at least five years, compared to operating budget items which are consumed in the daily delivery of City services.

The nature of a capital improvement lends itself to long-term planning and a combination of financing mechanisms. In Cincinnati, General Capital improvements are primarily funded by property tax-supported bond proceeds, earmarked income tax receipts, and Southern Railway note proceeds. The necessary lead time involved in engineering a project, acquiring and clearing sites, or in securing State or Federal funds may require the funding of project phases over several years. Enterprise and Special Revenue capital projects are generally funded by user fees to operate and maintain facilities, such as the Water Works system.

A six-year Capital Investment Program (CIP) is a plan for capital investment in Cincinnati's future through improving City streets, bridges, recreation facilities, parks, health facilities, and buildings, all of which enhance the delivery of services and the quality of life in Cincinnati. The 2011-2016 CIP coordinates the financing and timing of improvements to maximize the value to the public.

This Capital Budget process began with city departments making requests for capital projects. These requests include ongoing projects, improvements to existing assets, previously funded phased projects, and new projects. All department capital project requests were reviewed by the Capital Committee, which is a group of department directors and an Assistant City Manager, chaired by an Assistant City Manager and the Finance Director. The City Manager reviewed the recommendations of the Capital Committee and, in turn, developed the Capital Budget recommendations which were then submitted to the Mayor on November 29, 2010. After reviewing and commenting on the City Manager's recommended Capital Budget, the Mayor presented his Capital Budget to the City Council. Public comment regarding the Mayor's recommended Capital Budget was solicited during public hearings held on December 1, 7, 9, 13, and 15, 2010. The City Council approved the 2011/2012 Biennial Capital Budget on December 30, 2010.

In addition to other review considerations, the Capital Committee used the criteria listed below in developing the Capital Budget. The criteria in descending priority sequence are as follows:

1. Hazard Elimination: to eliminate or reduce definite and immediate health and safety hazards;
2. Legal Mandates: to comply with a court order or other specific legal directive (consent decree, etc.);
3. Regulatory Compliance: self-initiated improvement in compliance with a federal, state, or local rule or regulation affecting capital assets;
4. Project Completion: to finish phased projects with related and already committed or expended funding;
5. Prevent Failure: to systematically, and according to schedule, improve assets which if not periodically improved would fail;
6. Extend Useful Life: to improve an asset by making a capital investment to increase the asset's service life;
7. Cost-Benefit Justified: to make a capital investment which is supported by benefits equal to or greater than the cost of investment (e.g., benefits may be in jobs, revenue, cost savings, matching funds, etc.);
8. Service Betterment: to accommodate growth in service demand, or to otherwise increase the quality of service provided by the capital asset.

**EXHIBIT 2**

**2011-2016 GENERAL CAPITAL INVESTMENT PROGRAM**

<u>General Capital</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b>PROGRAM RESOURCES</b>								
Income Tax	\$12,628,000	\$8,660,000	\$8,660,000	\$8,660,000	\$8,660,000	\$8,660,000	\$7,000,000	\$50,300,000
Tax-Supported Bonds	\$22,000,000	\$20,000,000	\$18,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$98,000,000
Southern Railway Note Proc.	\$17,646,000	\$17,900,000	\$18,340,000	\$18,700,000	\$19,075,000	\$19,450,000	\$19,850,000	\$113,315,000
Reprogramming	\$553,300	\$1,200,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,700,000
Income Tax Supported Debt	\$10,000,000	\$8,000,000	\$10,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$50,000,000
Blue Ash Airport Sale Proc.	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL RESOURCES:</b>	<b>\$63,077,300</b>	<b>\$55,760,000</b>	<b>\$55,500,000</b>	<b>\$50,860,000</b>	<b>\$51,235,000</b>	<b>\$51,610,000</b>	<b>\$50,350,000</b>	<b>\$315,315,000</b>
<b>PROGRAM EXPENSE</b>								
Debt Service Payments	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$6,000,000
Economic Development	\$5,268,600	\$6,018,100	\$4,518,600	\$3,350,800	\$3,664,300	\$3,524,900	\$3,489,500	\$24,656,200
Environment	\$190,000	\$112,500	\$124,600	\$128,100	\$129,000	\$130,000	\$126,800	\$751,000
Equipment	\$9,485,700	\$6,008,600	\$6,958,900	\$6,991,400	\$6,965,700	\$6,647,000	\$6,434,200	\$39,915,800
Housing & Neigh. Dev.	\$2,753,400	\$2,880,800	\$2,857,600	\$3,200,600	\$2,935,300	\$3,122,900	\$2,996,300	\$17,993,500
Infrastructure (Smale)	\$39,046,000	\$38,975,000	\$39,115,300	\$35,010,600	\$35,515,700	\$36,060,200	\$35,178,200	\$219,855,000
New Infrastructure	\$5,333,600	\$765,000	\$925,000	\$1,178,500	\$1,025,000	\$1,125,000	\$1,125,000	\$6,143,500
<b>TOTAL EXPENSES:</b>	<b>\$63,077,300</b>	<b>\$55,760,000</b>	<b>\$55,500,000</b>	<b>\$50,860,000</b>	<b>\$51,235,000</b>	<b>\$51,610,000</b>	<b>\$50,350,000</b>	<b>\$315,315,000</b>
<b>AVAILABLE BALANCE:</b>	<b>\$0</b>							

## **II. ANALYSIS OF AVAILABLE RESOURCES**

### **GENERAL CAPITAL RESOURCES**

The total 2011-2016 General Capital Investment Program forecast is \$315.3 million in available resources over six years (see Exhibit 2, page 13). For the six-year period, program resources equal the approved program expenses for all projects in the amount of \$315.3 million. Estimated resources for 2011 are \$55.8 million and for 2012 are \$55.5 million, which match the approved project amounts for 2011 and 2012. What follows in this section is a description of each resource category for the General Capital Budget.

#### **City Income Tax**

The City Income Tax is a locally levied tax applied to gross salaries, wages, and other personal compensation, and net profits earned by all City residents and to earnings of nonresidents working in the City limits. The City's income tax of 2.1% is subdivided into four components: general operations (1.55%), transit (0.3%), infrastructure (0.1%), and capital (0.15%). The 0.1% portion of the 2.1% City Income Tax, along with the local motor vehicle license tax and gasoline tax, is dedicated to infrastructure spending, but is not included as a capital resource. These resources go into special revenue funds, which are used in the operating budget for the maintenance and repair of infrastructure, but this can also be used for infrastructure capital in accordance with each resource's definition of eligibility per statute or ordinance. These resources will be presented for the City Council's review in the biennial Operating Budget.

As shown in Exhibit 2, City Income Tax resources for 2011 and 2012 are \$8.7 million in each year. The 2011-2016 total City Income Tax resource is \$50.3 million. (Exhibit 3, page 17 provides a percentage breakdown of total program resources for 2011-2012.)

#### **Property Tax Supported Bonds**

The assessed valuation of property within the City subject to ad valorem taxes includes real property, public utilities property, and tangible personal property. In accordance with State law, some general obligation debt may be issued without a vote of the public. The debt cannot be issued unless there are sufficient tax proceeds for the payment of the debt service on the bonds. The estimate for Property Tax Supported Bonds (unvoted bonds) in Exhibit 2 reflects property tax millage of 5.47 mills to meet the debt service requirements. The City is well within the unvoted statutory debt limitation of 5 ½% of assessed value in the City.

As shown in Exhibit 2, Property Tax Supported Bonds for 2011 are \$20.0 million and \$18.0 million for 2012. The 2011-2016 total Property Tax Supported Bonds resource is \$98.0 million, with \$15.0 million each year from 2013 through 2016.

Approximately 77% of the City's current outstanding general obligation property tax and self-supported debt of \$444.2 million will be retired by December 31, 2021. Credit quality and affordability issues, used by bond rating agencies to determine the City's bond rating, continue to be positive indicators for the City. The per capita debt of \$2,706 and debt outstanding of 5.46% of the market value of taxable property are two examples.

Although the City currently utilizes general obligation bonded debt for self-supporting bond issues (such as urban renewal/economic development, parking system, and recreational facilities), self-supporting revenue sources have been, and are expected to be, sufficient to pay principal and interest requirements on all self-supporting debt. Beginning in 2000, the City Council approved a policy to use revenue bonds to support future Water Works capital projects.

The City also issues bonds with debt service to be paid by a portion of the 0.15% income tax earmarked for capital purposes. This strategy has been utilized by the City Council to leverage funds for special projects such as emerging development opportunities. The City uses this strategy sparingly, in order to have funds available for pay-as-you go (cash) projects.

### **Southern Railway Note Proceeds**

Cincinnati owns the Cincinnati Southern Railway and leases its use. In 1987, the City renegotiated the terms of the lease for a more favorable annual income. The City Council endorsed a policy by resolution to dedicate funds generated by the Southern Railway to infrastructure projects. The notes issued and interest income provides a resource for infrastructure projects.

As shown in Exhibit 2, the Southern Railway Note Proceeds resource for 2011 is \$17.9 million and for 2012 is \$18.3 million. The 2011-2016 Southern Railway Note Proceeds resource totals \$113.3 million.

### **Income Tax Supported Debt**

The Approved 2011/2012 Biennial Capital Budget and the 2011-2016 Capital Investment Program includes the use of City Income Tax Supported Debt as a resource for project expenditures. The ability to use City Income Tax proceeds to support debt will be determined annually by forecasted income tax revenues.

As shown in Exhibit 2, the Income Tax Supported Debt resource is \$8.0 million in 2011 and \$10.0 million in 2012. The 2011-2016 total Income Tax Supported Debt resource is \$50.0 million.

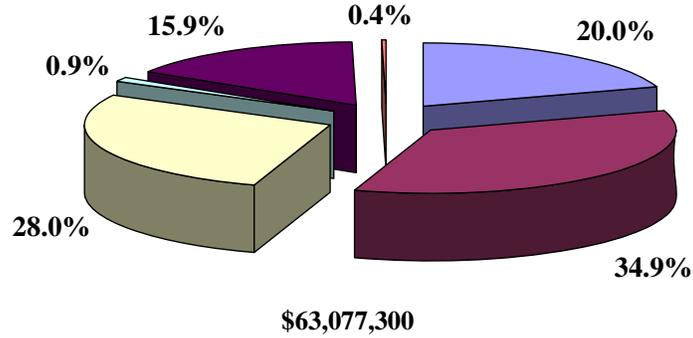
### **Reprogramming Resources**

Reprogramming resources are unused funds recaptured from projects that are completed. The remaining balances are available and recommended for use in new projects. As shown in Exhibit 2, the 2011 Reprogramming resource amount is \$1.2 million and the 2012 resource amount is \$500,000. For 2011-2016, Reprogramming Resources total \$3.7 million.

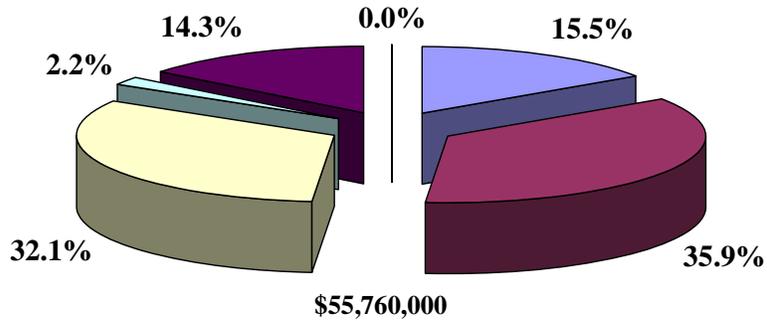
**EXHIBIT 3**

**CITY OF CINCINNATI  
2010 – 2012 GENERAL CAPITAL INVESTMENT PROGRAM  
TOTAL PROGRAM RESOURCES**

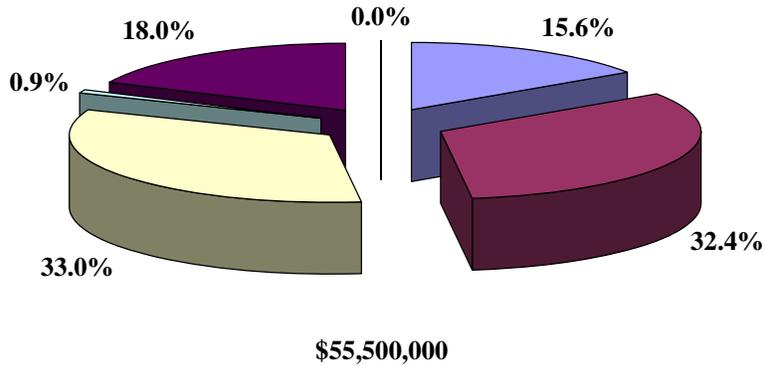
**2010**



**2011**



**2012**



### **III. ANALYSIS OF EXPENDITURES**

#### **GENERAL CAPITAL FUND EXPENDITURES**

Planned General Capital projects for the 2011-2016 Capital Investment Program total \$315.3 million, which matches the total estimated resources for 2011-2016 of \$315.3 million. For the 2011/2012 General Capital Budget, approved projects total \$111.3 million (\$55.8 million in 2011 and \$55.5 million in 2012) which is balanced to resources.

The following table illustrates the General Capital projects over the 2011/2012 biennium by Expenditure Category in each department. (Please see Exhibit 4, page 19.) The table also shows the total in each department for the 2011-2016 six-year plan for each Expenditure Category. These categories include: Debt Service Payments, Economic Development, Environment, Equipment, Housing and Neighborhood Development, Infrastructure (Smale Commission), and New Infrastructure. The Debt Service Payments category was added in 2002. This category includes a project related to the City's commitment for the expansion of the Duke Energy Convention Center. The New Infrastructure category was added for the 1997/1998 Biennial Budget to distinguish new capital improvements from Infrastructure (Smale Commission) projects, which provide for the renovation or replacement of existing City assets.

Exhibit 5 on page 24 provides a percentage breakdown of expenditures in the General Capital Budget by expenditure category for 2011 and 2012.

For a complete description of the General Capital projects, please refer to the separate departmental sections in this document.

## 2011-2016 Capital Improvement Program Approved Projects by Expenditure Category

### General Capital

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Expenditure Category: Debt Service Payments</b>					
<b>Department: Transportation &amp; Eng.</b>					
55	Convention Center Expansion	1,000,000	1,000,000	2,000,000	\$6,000,000
	Debt Service Payments Total:	1,000,000	1,000,000	2,000,000	\$6,000,000
<b>Expenditure Category: Economic Development</b>					
<b>Department: City Manager</b>					
1	Retail/Commercial Opportunities	1,255,100	1,390,600	2,645,700	\$8,378,200
2	Economic Development Opportunities	1,410,000		1,410,000	\$1,410,000
6	Port Authority	1,000,000	1,000,000	2,000,000	\$2,000,000
<b>Department: Community Development</b>					
6	NBD Public Improvements	1,000,000	1,000,000	2,000,000	\$6,000,000
7	SPUR	243,000	260,000	503,000	\$1,503,000
8	Community Development Focus District	300,000	350,000	650,000	\$1,850,000
9	Commercial & Industrial Public Imprvts	400,000	400,000	800,000	\$2,400,000
10	Tax Incentive/Enterprize Zone	100,000	100,000	200,000	\$600,000
11	NBD Property Holding	10,000	18,000	28,000	\$125,000
<b>Department: Public Services</b>					
8	NURFC Permanent Exhibit	300,000		300,000	\$300,000
	Economic Development Total:	6,018,100	4,518,600	10,536,700	\$24,566,200
<b>Expenditure Category: Environment</b>					
<b>Department: City Manager</b>					
1	Center Hill Gas & Leachate	101,100	104,200	205,300	\$653,700
2	Regulatory Compl. & Energy Conservation	11,400	20,400	31,800	\$97,300
	Environment Total:	112,500	124,600	237,100	\$751,000
<b>Expenditure Category: Equipment</b>					
<b>Department: City Manager</b>					
5	Enterprise Budget System	30,000		30,000	\$30,000
4	Wheeled Recycling Carts		325,500	325,500	\$2,191,100
<b>Department: Enterprise Tech. Solutions</b>					
1	Communications Master Plan	190,000	266,000	456,000	\$1,469,000
2	Data Infrastructure Security	125,000	160,000	285,000	\$894,600

## 2011-2016 Capital Improvement Program Approved Projects by Expenditure Category

### General Capital

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Expenditure Category: Equipment</b>					
3	Cincinnati Financial System Upgrades	40,000	40,000	80,000	\$337,000
4	CAGIS Infrastructure	147,900	147,900	295,800	\$603,200
5	Electronic Gov't (eGov) Web Enhancement	231,700	180,000	411,700	\$1,331,700
6	800 MHz Radios		20,000	20,000	\$68,300
8	Active Directory / Server Consolidation			0	\$200,000
<b>Department: Finance</b>					
1	AMS-CFS Procurement Software Upgrade	78,000		78,000	\$78,000
2	CFS Upgrade		237,400	237,400	\$237,400
3	Licensing Software & A/R Collection Sys.		50,000	50,000	\$144,700
<b>Department: Fire</b>					
2	Fire Clothing Replacement	228,300	152,100	380,400	\$380,400
4	Defibrillator - Replacement	138,600		138,600	\$138,600
3	Apparatus Door Closers		145,000	145,000	\$145,000
7	Air Compressor Replacement		98,800	98,800	\$98,800
6	Hand Held Computer Based System			0	\$721,500
9	Appliances For Existing Firehouses			0	\$124,300
<b>Department: Health</b>					
1	Dental Equipment Replacement	90,000	90,000	180,000	\$180,000
<b>Department: Law</b>					
1	Document Management System	90,000		90,000	\$90,000
<b>Department: Planning &amp; Buildings</b>					
5	Permit Center IT Replacement & Upgrade	37,200		37,200	\$37,200
<b>Department: Public Services</b>					
2	Fleet Replacements	4,301,900	4,746,200	9,048,100	\$28,725,000
5	Trash Receptacles	150,000	150,000	300,000	\$900,000
<b>Department: Transportation &amp; Eng.</b>					
1	Information Systems Acquisition	130,000	150,000	280,000	\$880,000
	Equipment Total:	6,008,600	6,958,900	12,967,500	\$40,005,800

## 2011-2016 Capital Improvement Program Approved Projects by Expenditure Category

### General Capital

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Expenditure Category: Housing &amp; Neighborhood Development</b>					
<b>Department: Community Development</b>					
1	Hazard Abatement/Demolition Program	225,000	225,000	450,000	\$1,500,000
2	Strategic Housing Initiatives Program	1,160,200	863,400	2,023,600	\$5,182,200
3	Downtown Housing Development	615,000	680,000	1,295,000	\$3,969,000
4	Citirama	800,000		800,000	\$2,400,000
5	Neighborhood Market Rate Housing		1,000,000	1,000,000	\$4,405,100
<b>Department: Planning &amp; Buildings</b>					
1	Neighborhood Studies	80,600	89,200	169,800	\$537,200
	Housing & Neighborhood Development Total:	2,880,800	2,857,600	5,738,400	\$17,993,500
<b>Expenditure Category: Infrastructure (Smale Comm'n.)</b>					
<b>Department: Health</b>					
2	Facilities Renovation & Repairs	238,300	273,700	512,000	\$2,011,500
<b>Department: Parks</b>					
1	Park Infrastructure Rehabilitation	2,655,800	2,831,800	5,487,600	\$17,161,200
2	Cincinnati Riverfront Park	4,000,000	2,000,000	6,000,000	\$6,000,000
6	Yeatman's Cove Upper Walkway	1,000,000		1,000,000	\$1,000,000
<b>Department: Public Services</b>					
1	I-75 Expansion/Public Services Relocate	1,000,000	2,500,000	3,500,000	\$3,500,000
3	City Facility Renovation and Repairs	2,234,000	2,200,000	4,434,000	\$13,234,000
4	Replacement Facilities	1,048,600	1,338,400	2,387,000	\$8,188,000
6	Sign Replacement	200,000	358,400	558,400	\$3,978,500
7	Community Facility Improvements	600,000	600,000	1,200,000	\$3,600,000
9	District Two Garage Repair	50,000		50,000	\$50,000
10	Findlay Market Improvements	100,600	108,800	209,400	\$609,400
<b>Department: Recreation</b>					
1	Recreation Facilities Renovation	1,850,000	1,355,500	3,205,500	\$9,020,100
2	Aquatics Facilities Renovation	1,650,000	2,000,000	3,650,000	\$11,650,000
3	Athletics Facilities Renovation	287,000	721,500	1,008,500	\$3,514,700
4	Compliance with ADA	100,000	100,000	200,000	\$600,000
5	Outdoor Facilities Renovation	473,200	533,200	1,006,400	\$3,126,400

## 2011-2016 Capital Improvement Program Approved Projects by Expenditure Category

### General Capital

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Expenditure Category: Infrastructure (Smale Comm'n.)</b>					
<b>Department: Transportation &amp; Eng.</b>					
2	SCIP Loan Repayment	215,000	215,000	430,000	\$1,290,000
3	Innovative Transportation Strategies	500,000	500,000	1,000,000	\$3,000,000
4	Street Rehabilitation	9,700,000	10,500,000	20,200,000	\$63,175,000
5	Street Improvements	900,000	1,000,000	1,900,000	\$6,000,000
6	Traffic Signal Installation & Renov.	830,000	830,000	1,660,000	\$4,980,000
7	OKI Corridor Studies	200,000	200,000	400,000	\$1,400,000
8	Bridge Rehabilitation Program	900,000	1,400,000	2,300,000	\$6,600,000
9	Computerized Traffic Signal System	200,000	200,000	400,000	\$1,200,000
11	Wall Stab. & Landslide Correction	650,000	1,000,000	1,650,000	\$5,250,000
13	LED Traffic and Pedestrian Signals	337,500	337,500	675,000	\$2,362,500
15	Sidewalk Repair Program	700,000	750,000	1,450,000	\$4,350,000
16	Curb Ramps - Street Rehab	400,000	440,000	840,000	\$2,660,000
17	Safety Improvements	100,000	100,000	200,000	\$600,000
19	Traffic Signal Controllers & Detectors	75,000	75,000	150,000	\$550,000
22	Bicycle Transportation Program	600,000	600,000	1,200,000	\$3,600,000
23	Hillside Stairway Rehab. Program	250,000	250,000	500,000	\$1,400,000
26	Spot Infrastructure Replacement	1,025,000	740,000	1,765,000	\$4,665,000
29	Street Calming Program	200,000	200,000	400,000	\$1,200,000
34	Pavement Management	170,000	170,000	340,000	\$1,020,000
41	Colerain Ave. Virginia to Leeper Impr.	100,000	100,000	200,000	\$200,000
43	Over-the-Rhine Streetscape Imprv.	600,000	700,000	1,300,000	\$3,300,000
44	Columbia Parkway Enhancements	185,000	50,000	235,000	\$1,485,000
45	Downtown Infrastrctr. Coord. & Implmntn.	550,000	400,000	950,000	\$2,312,500
46	Uptown Access Improvements West MLK Dr.	400,000	400,000	800,000	\$1,200,000
47	Harrison Avenue Improvements	500,000		500,000	\$500,000
48	Colerain Corr. Imp. I-74 to Spring Grv	100,000	100,000	200,000	\$600,000
56	Western Hills Viaduct Repair/Replmnt.	1,000,000	661,500	1,661,500	\$4,422,000
58	ROW Ordinance Implementation	100,000	100,000	200,000	\$600,000
27	Street Light Replacement Project		75,000	75,000	\$475,000
51	Duke Street Light Replmnt. Proj.		100,000	100,000	\$700,000

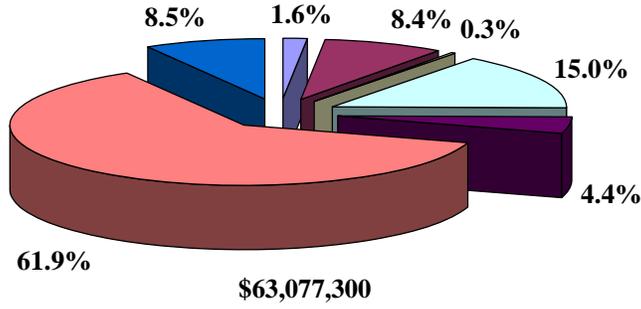
## 2011-2016 Capital Improvement Program Approved Projects by Expenditure Category

### General Capital

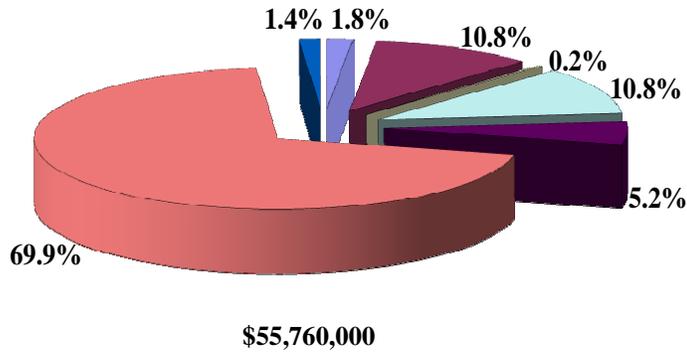
<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Expenditure Category: Infrastructure (Smale Comm'n.)</b>					
31	Second and Third Street Improvements			0	\$802,200
57	Transit Center Reconstruction			0	\$712,000
	Infrastructure (Smale Comm'n.) Total:	38,975,000	39,115,300	78,090,300	\$219,855,000
<b>Expenditure Category: New Infrastructure</b>					
<b>Department: Transportation &amp; Eng.</b>					
14	Gateways/Greenways Improvement	465,000	400,000	865,000	\$2,765,000
20	Downtown Public Paver Replacement	50,000	50,000	100,000	\$300,000
35	Ohio River Trail - Downtown to Salem	100,000	400,000	500,000	\$2,100,000
40	Riverfront Infrastctr. Coord. & Impl.	100,000	25,000	125,000	\$225,000
49	Raised Pavement Markers	50,000	50,000	100,000	\$300,000
59	Kennedy Connector			0	\$253,500
53	ML King/I-71 Interchange			0	\$200,000
	New Infrastructure Total:	765,000	925,000	1,690,000	\$6,143,500
	Total: General Capital	55,760,000	55,500,000	111,260,000	\$315,315,000

**EXHIBIT 5**  
**CITY OF CINCINNATI**  
**2010 – 2012 GENERAL CAPITAL INVESTMENT PROGRAM**  
**APPROVED EXPENDITURES**

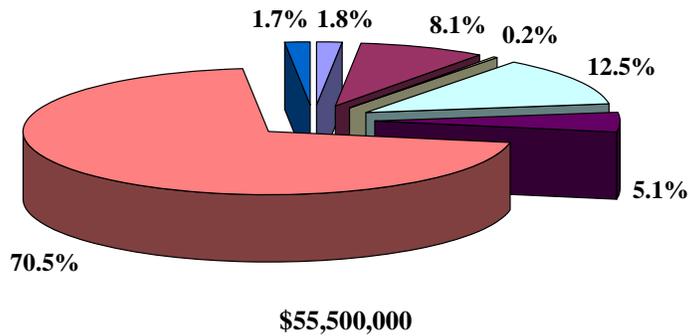
**2010**



**2011**



**2012**



Debt Service Payments	Economic Development
Environment	Equipment
Housing & Neighborhood Development	Infrastructure (Small)
New Infrastructure	

## **RESTRICTED FUND EXPENDITURES**

The resources for Restricted Fund capital projects come primarily from fees and charges. After operating and maintenance costs, current debt service, and reserve requirements are covered, the remaining available funds are used for capital purposes. Fund forecast information, including projected fund balance information, may be found in the 2011/2012 Operating Budget document. As shown in Exhibit 1, page 10, the Restricted Funds Capital Budget totals \$266.0 million in 2011 and \$212.9 million in 2012. For the six-year Capital Investment Program, the total is \$1.8 billion.

The following table illustrates the approved projects over the 2011/2012 biennium in Restricted Funds in each department. (Please see Exhibit 6, page 26.) The table also shows the total in each department for the 2011-2016 six-year plan for each Restricted Fund. These Restricted Funds include: Parking Facilities; Convention Center; General Aviation; Stormwater Management; Telecommunications Services; MSD Capital Improvements; Water Works; and Income Tax Transit.

For a complete description of the approved projects in the Restricted Funds, please refer to the separate departmental sections in this document.

## **SPECIAL REVENUE FUNDS**

The Approved 2011/2012 Biennial Capital Budget includes \$2.5 million (\$1.9 million in 2011 and \$0.6 million in 2012) for the Special Housing Permanent Improvement Fund (SHPIF) capital projects. The 2011-2016 six-year plan includes \$2.5 million. This fund, which is supported from net rental income and tax increment payments, provides revenue for the New Housing Program administered by the Department of Community Development. This program supports the development of new market-rate housing.

## **FEDERAL and STATE CAPITAL GRANTS**

The Approved 2011/2012 Biennial Capital Budget includes \$16.2 million (\$9.6 million in 2011 and \$6.6 million in 2012) for Federal and State Capital Grant funded capital projects. The 2011-2016 six-year plan includes \$16.2 million. The City receives Federal and State grants and matching funds and also manages State and County funds to improve the City's roads and bridges. The General Aviation Division of the Department of Transportation and Engineering typically receives funding from the Federal Aviation Administration (FAA). The amount of funds granted by the FAA varies from year to year. Once grants are received, the resulting projects are budgeted and matching City funds will be recommended to the City Council for approval. (Exhibit 1, page 10, provides the Federal and State Capital Grants total.)

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 102 Parking Facilities

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: ES: Parking Facilities</b>					
1	Structural Maintenance & Repair	536,500	1,243,000	1,779,500	\$5,975,500
2	Gateway Garage Capital Improvements	50,000	50,000	100,000	\$300,000
3	CFS Upgrade		6,300	6,300	\$6,300
	Total: Parking Facilities	586,500	1,299,300	1,885,800	\$6,281,800

### Fund: 103 Convention Center

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: ES: Convention Center</b>					
1	Furniture, Fixtures, and Equipment	43,000		43,000	\$443,000
2	Capital Maintenance	250,000	229,200	479,200	\$639,200
3	Building Equipment	118,800		118,800	\$478,800
4	CFS Upgrade		800	800	\$800
	Total: Convention Center	411,800	230,000	641,800	\$1,561,800

### Fund: 104 General Aviation

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: Transportation &amp; Eng.</b>					
61	Airport Infrastructure Improvements	140,000	140,000	280,000	\$840,000
62	FAA/ODOT Local Match	200,000	200,000	400,000	\$1,200,000
63	Facility Improvements	215,500	236,100	451,600	\$1,622,000
99	CFS Upgrade		1,700	1,700	\$1,700
	Total: General Aviation	555,500	577,800	1,133,300	\$3,663,700

### Fund: 107 Stormwater Management

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: Sewers</b>					
1	Barrier Dam Facility Repairs	100,000	100,000	200,000	\$700,000
2	Guerley Rd. Outlet to Sunset Drain Imp.	874,000		874,000	\$874,000
3	3674 Hillside Ave. Stormwtr. Intake Imp.	270,000	230,000	500,000	\$500,000
4	Hillside Avenue Drainage Improvements	100,000	100,000	200,000	\$500,000

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 107 Stormwater Management

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
5	St. Leo Place Drainage Correction	50,000	250,000	300,000	\$300,000
8	Dyer Street Drainage Improvements	301,000		301,000	\$301,000
6	Hartwell Community Drainage Imprvmnts.		100,000	100,000	\$300,000
7	Eatondale Stormwater Intake Imprvmnts.		250,000	250,000	\$250,000
12	Settle - Madison to Roe		32,000	32,000	\$240,000
9	Winton 84-inch Sewer Elimination				\$70,000
13	Orlando Pl - Stewert to Peabody				\$189,000
14	Stewert Avenue - Madison Rd. to Orla				\$94,000
10	West Fork Channel Repair				\$300,000
11	Moorehead St. to Swift Ave. Drainage Imp				\$300,000
15	Haley Ave. at Settle St.				\$218,000
16	Dunaway Ct.				\$128,000
17	Osgood St.				\$53,000
Total: Stormwater Management		1,695,000	1,062,000	2,757,000	\$5,317,000

### Fund: 336 Telecommunications Services

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: Enterprise Tech. Solutions</b>					
7	Radio Communications Equipment	30,000	30,000	60,000	\$180,000
Total: Telecommunications Services		30,000	30,000	60,000	\$180,000

### Fund: 704 MSD Capital Improvements

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: Sewers</b>					
1	Towers East PS Elimination	2,154,100		2,154,100	\$2,154,100
3	Werk and Westbourne EHRT Facility	709,000		709,000	\$39,191,900
27	CSO 194 High Point Sewer Separation	480,000		480,000	\$4,639,900
28	CSO 195 Westwood Northern Sewer Separ.	120,000		120,000	\$3,475,000
29	CSO 525 Mt. Airy Grating Sewer Separ.	192,000		192,000	\$3,598,800
33	Lower Mill Creek Partial Remedy	10,500,000	7,500,000	18,000,000	\$322,056,600
34	SSO 1000 Elimination	268,000		268,000	\$2,291,600

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 704 MSD Capital Improvements

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
35	SSO 228 Elimination	201,200		201,200	\$1,701,000
43	LMWWTP Planning Bundle	1,033,700	5,582,800	6,616,500	\$6,616,500
47	CSO 135 Improvements	43,400		43,400	\$43,400
48	CSO 43 Improvements	44,400		44,400	\$44,400
49	CSO 54 Improvements	40,200		40,200	\$354,900
50	CSO 170 Improvements	42,400		42,400	\$42,400
51	CSO 187 Improvements	39,100		39,100	\$334,200
52	CSO 214 Storage Facility	2,505,200	218,800	2,724,000	\$2,724,000
53	CSO 500 Improvements	42,900		42,900	\$42,900
54	CSO 501 Improvements	43,400		43,400	\$43,400
55	CSO 549 Improvements	43,900		43,900	\$43,900
56	CSO 550 Improvements	44,400		44,400	\$44,400
57	CSO 551 Sewer Separation	567,100	59,800	626,900	\$4,752,800
58	CSO 552 Improvements	41,900		41,900	\$41,900
59	CSO 553 Sewer Separation	293,000	59,800	352,800	\$352,800
60	Upper Duck Creek HRT Facility	2,700,100	648,800	3,348,900	\$3,348,900
63	Eastern/Delta Sewer Separation Ph 3	11,447,100		11,447,100	\$11,447,100
66	Sewer Relining Program	7,858,200	8,133,200	15,991,400	\$51,249,100
67	Manhole Rehabilitation Program	1,309,800	1,355,600	2,665,400	\$8,542,200
68	Water in Basement Prevention Program	2,750,000	2,750,000	5,500,000	\$16,500,000
69	RDI/I Program	4,003,800	4,166,100	8,169,900	\$26,275,000
70	WWIP Development Studies and Reports	1,684,600	1,730,400	3,415,000	\$9,801,000
71	MSD Sustainable Infrastructure Program	27,000,000	34,000,000	61,000,000	\$239,627,200
72	Urgent Capacity Response	2,619,500	2,711,200	5,330,700	\$17,083,700
73	Home Sewer Treatment System Extensions	1,833,700	1,897,900	3,731,600	\$11,959,100
74	WWIP Mangement and Suppoprt Services	12,800,000	13,000,000	25,800,000	\$78,445,000
75	Spring Leaf Pump Station Elimination	675,200		675,200	\$2,857,000
76	Homelawn Estates PS Elimination	131,900		131,900	\$488,100
77	White Oak Pump Station Elimination	174,100		174,100	\$752,700
78	Wesselman Sewer Phase II-A	3,937,500		3,937,500	\$3,937,500
80	CSO 410 Stream Separation	1,459,700		1,459,700	\$1,459,700

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 704 MSD Capital Improvements

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
81	MUCRWWTP Electrical Upgrades	7,067,500		7,067,500	\$7,067,500
83	Dellers Glen PS Elimination	467,000		467,000	\$467,000
84	Bender Rd Aerial Sewer Crossing	129,000		129,000	\$129,000
85	Country Club Estates PS Elimination	1,444,900		1,444,900	\$1,444,900
86	Wastewater Engineering Building Lease	1,200,000	1,200,000	2,400,000	\$7,200,000
87	Dellway Ave Sewer Replacement	2,592,600		2,592,600	\$2,592,600
93	CSO 483 Sewer Separation	5,618,500		5,618,500	\$5,618,500
94	Cora Avenue Sewer Replacement	189,500		189,500	\$707,500
95	North Avondale Basin Study	698,000		698,000	\$698,000
96	German Cemetery Sewer Replacement	191,500		191,500	\$651,900
97	Benson St. Sewer Replacement	2,859,000		2,859,000	\$2,859,000
98	Badgeley RTC Reloc and Grit Pit	1,873,000		1,873,000	\$1,873,000
99	Macauley St. Sewer Replacement	100,700		100,700	\$410,800
101	Mt. Airy Forest Sewer Replacement	3,527,000		3,527,000	\$3,527,000
102	Diehl Road Sewer Replacement	630,300		630,300	\$630,300
103	Shasta Place Sewer Replacement	227,600		227,600	\$227,600
105	Lynnhaven Drive Sewer Replacement	145,900		145,900	\$145,900
106	MCWWTP Raw Sewage PS Upgrade	3,420,600	7,944,200	11,364,800	\$11,364,800
109	SSO 603 and 704 Improvements	3,824,400		3,824,400	\$3,824,400
110	MCWWTP Anaerobic Digester Conv	18,803,100		18,803,100	\$18,803,100
111	Ardmore Ave. Sewer Replacement	1,470,200		1,470,200	\$1,470,200
112	Wilder Avenue Sewer Replacement	238,000		238,000	\$238,000
118	Beckman Pump Station Elimination	101,800		101,800	\$418,200
119	LMWWTP-Four Mile PS Improv	2,035,800		2,035,800	\$2,035,800
120	Moeller Avenue Sewer Replacement	989,800		989,800	\$989,800
121	Fairfax Avenue Sewer Replacement	333,500		333,500	\$333,500
123	Land Acquisition	1,500,000	1,500,000	3,000,000	\$6,000,000
124	Emergency Sewer Repairs 2011	8,150,000		8,150,000	\$8,150,000
129	SCADA System Installs and Upgrades	11,802,600		11,802,600	\$11,802,600
130	CIP Project Planning 2011	2,500,000		2,500,000	\$2,500,000
135	WWT Roofing and Paving Rehab/Replmt.	209,200	209,200	418,400	\$1,259,300

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 704 MSD Capital Improvements

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
136	Asset Rehab and Replacement Plan	1,000,000	500,000	1,500,000	\$2,500,000
137	Reliability Services	1,348,500		1,348,500	\$1,348,500
140	Flow Monitoring and Rain Gauges 2011	3,800,000		3,800,000	\$3,800,000
145	Flow Modeling 2011	2,100,000		2,100,000	\$2,100,000
150	High Risk Asset Renewal 2011	5,150,000		5,150,000	\$5,150,000
155	MSD-DUKE Sewer Televising Partnership	10,000,000	10,000,000	20,000,000	\$40,000,000
157	Value Engineering	375,000	375,000	750,000	\$1,500,000
163	Indef. Delivery/Indef. Quantity 2011	120,000		120,000	\$120,000
12	Ludlow and Lafayette Parallel Sewer		126,100	126,100	\$934,700
13	SSO 700 Storage Facility		5,639,200	5,639,200	\$18,906,300
15	CSO 512 Improvements		20,000	20,000	\$65,300
16	CSO 513 Sewer Separation		198,900	198,900	\$653,100
17	CSO 514 Sewer Separation		105,300	105,300	\$344,300
26	CSO 179 Sewer Separation		198,400	198,400	\$1,687,800
79	Westchase Park Pump Station Elim		322,700	322,700	\$322,700
82	Barringtnhls BLKF GVOLZ/KAK		5,004,700	5,004,700	\$5,004,700
100	Millbrook [#]2 PS Upgrade		1,570,200	1,570,200	\$1,570,200
104	Fairmount Avenue Sewer Replacement		592,800	592,800	\$592,800
108	E. Mitchell Avenue Sewer Replacement		1,065,400	1,065,400	\$1,065,400
116	Wasson Road Sewer Replacement		338,300	338,300	\$338,300
117	Beverly Hill Drive Sewer Replacement		274,700	274,700	\$274,700
122	Linwood Avenue Sewer Replacement		801,100	801,100	\$801,100
125	Emergency Sewer Repairs 2012		8,150,000	8,150,000	\$8,150,000
131	CIP Project Planning 2012		2,000,000	2,000,000	\$2,000,000
138	Remaining Asset Allowance 2012		9,673,700	9,673,700	\$9,673,700
141	Flow Monitoring and Rain Gauges 2012		3,800,000	3,800,000	\$3,800,000
146	Flow Modeling 2012		2,100,000	2,100,000	\$2,100,000
151	High Risk System Asset Renewal 2012		5,150,000	5,150,000	\$5,150,000
164	Indef. Delivery/Indef. Quantity 2012		120,000	120,000	\$120,000
4	MuCrWWTP Ad New Belt Filter Press				\$1,334,000
5	MuCrWWTP Grit Replacement				\$4,747,800

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 704 MSD Capital Improvements

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
6	SSO 1048 Conveyance Sewer				\$190,800
7	SSO 1048 CONVEYANCE SEWER PHASE 2				\$251,900
8	SSO 587 Conveyance Sewer				\$128,400
9	SSO 700 Influent Trunk Sewer				\$3,441,800
10	Lockland Sewer Separation				\$256,800
11	Pleasant Run Sewer - Kem. To JG				\$133,700
18	Blue Rock Rd Sewer Separation				\$1,952,000
19	CSO 226 Improvements				\$66,900
20	CSO 559 Improvements				\$66,900
21	CSO 515 Improvements				\$68,600
22	CSO 516 Improvements				\$69,000
23	CSO 538 Improvements				\$66,900
24	CSO 539 Improvements				\$66,900
25	CSO 562 Improvements				\$66,900
30	MCWWTP Auxillary Outfall Imprv.				\$16,240,900
31	MCWWTP Secondary Bypass Weir				\$151,800
32	MCWWTP Addl. Primary Sludge Pumping				\$1,408,500
36	Little Miami Four Mile PS Upgrade				\$374,200
37	LMWWTP Pump Sta. Reconfig.				\$319,500
38	LMWWTP Grit Station Upgrade				\$790,700
39	LMWWTP 4 Mile PS HYD Improv.				\$199,000
40	LMWWTP Prim to Sec Hyd Improv.				\$183,100
41	LMWWTP Chem. Enhanced Prim Treat.				\$628,400
42	LMWWTP Secondary Trmt. Modifications				\$952,700
44	LMWWTP Chemical Feed Sys. Upgrades				\$377,300
45	LMWWTP Sludge Receiving Fac. Improv.				\$45,600
46	LMWWTP Dual Feed/Standby Power				\$752,500
61	CSO 471 Grandin Rd Regulator Improvement				\$290,000
62	CSO 470 Eastern Ave Sewer Separation				\$1,635,100
64	LMWWTP Wet Weather P.S.				\$3,570,400
65	LMWWTP 4 Mile Dry Weather Pumps				\$162,100

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 704 MSD Capital Improvements

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
	88 Ohio Avenue Sewer Replacement				\$234,700
	89 Sharon Industrial Park PS Replacement				\$1,489,100
	90 Blair Avenue Sewer Replacement				\$285,800
	91 Stover Avenue Sewer Replacement				\$364,600
	92 CSO 125 Sewer Enhancements				\$3,687,000
	107 3934 Winding Way Sewer Replacement				\$522,100
	113 Polk Run TP Reliab. And Serv. Upg.				\$8,257,900
	114 Dry Run Area Sewers Phase 1				\$11,974,700
	115 Dry Run Area Sewers Ph 2				\$8,474,400
	126 Emergency Sewer Repairs 2013				\$8,150,000
	132 CIP Project Planning 2013				\$2,000,000
	142 Flow Monitoring and Rain Gauges 2013				\$3,800,000
	147 Flow Modeling 2013				\$2,100,000
	152 High Risk System Asset Renewal 2013				\$5,150,000
	14 Daly Road Sewer Replacement				\$13,649,000
	127 Emergency Sewer Repairs 2014				\$8,150,000
	133 CIP Project Planning 2014				\$2,000,000
	139 Remaining Asset Allowance				\$126,908,300
	143 Flow Monitoring and Rain Gauges 2014				\$3,800,000
	148 Flow Modeling 2014				\$2,100,000
	153 High Risk System Asset Renewal 2014				\$5,150,000
	2 Upper Muddy Lower Planning				\$3,242,300
	128 Emergency Sewer Repairs 2015				\$16,463,000
	134 CIP Project Planning 2015				\$4,040,000
	144 Flow Monitoring and Rain Gauges 2015				\$7,676,000
	149 Flow Modeling 2015				\$4,242,000
	154 High Risk System Asset Renewal 2015				\$10,403,000
	Total: MSD Capital Improvements	210,069,000	152,794,300	362,863,300	\$1,409,182,900

### Fund: 756 Water Works

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 756 Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: Water Works</b>					
1	Ultraviolet Disinfection - Miller Plant	12,723,000	8,250,000	20,973,000	\$22,973,000
2	Replacement Water Mains T1201	15,923,000	16,248,000	32,171,000	\$116,577,000
3	Street Improvements T1401	5,500,000	6,100,000	11,600,000	\$45,900,000
4	Valve Replacement Program	275,000	275,000	550,000	\$1,650,000
5	Backup Power Generator - Eden Park	900,000	2,550,000	3,450,000	\$3,450,000
6	Lebanon Pump Station	650,000	920,000	1,570,000	\$1,570,000
7	Kings Island Drive	2,400,000	350,000	2,750,000	\$2,750,000
8	Kings Mills/Columbia - Lebanon Phase II	2,000,000	200,000	2,200,000	\$2,200,000
9	Columbia/Turtlecreek - Lebanon Phase IV	1,000,000	2,200,000	3,200,000	\$3,200,000
10	Mason/Morrow/Millgrove Road-Lebanon Ph 3	1,200,000		1,200,000	\$1,200,000
11	Private Development T1501	400,000	400,000	800,000	\$2,420,000
12	Castings/Street Improvements	354,000	365,000	719,000	\$2,314,000
14	Station Valve Equipment	90,000	70,000	160,000	\$540,000
16	Secondary Basin Drive - Bolton Plant	515,000		515,000	\$515,000
17	Mack Tank Interior Coating 2011	249,000	351,000	600,000	\$600,000
18	Concrete Rehabilitation 2011	201,000		201,000	\$201,000
19	Masonry Rehabilitation 2011	175,000		175,000	\$175,000
20	Roof Replacement 2011	130,000		130,000	\$130,000
21	Regeneration Furnace Equipment	60,000	60,000	120,000	\$360,000
22	Eden Park Feeder 2 - Parsons Martin	800,000	1,650,000	2,450,000	\$2,450,000
23	Greenhills Tank	600,000		600,000	\$600,000
24	Motor Control Center Equipment	100,000	100,000	200,000	\$840,000
25	Electrical Transformers	85,000	85,000	170,000	\$510,000
26	Contamination Warning System	336,000	348,000	684,000	\$778,000
27	Kemper Road Tank	200,000	3,500,000	3,700,000	\$3,700,000
28	Battery, Charger, and DC Panel	75,000	50,000	125,000	\$350,000
29	Total Organic Carbon Analyzer	40,000		40,000	\$40,000
30	Backup Power Generator - Constance	350,000	600,000	950,000	\$3,250,000
32	Field App Replacement on Large GCWW Pump	100,000	125,000	225,000	\$535,000
34	Continuous WQ Monitors Dist System 2011	65,000		65,000	\$65,000

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 756 Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
35	Survey GPS Rover and Base Station	120,000		120,000	\$120,000
36	Main Station Trans Switch Controls	60,000	60,000	120,000	\$120,000
37	Water Main Relocation - Street Imprvmnts	4,537,500	1,512,500	6,050,000	\$6,050,000
57	All Pipes Model	300,000		300,000	\$300,000
66	Carbon Transfer Pump - Miller Plant	14,000		14,000	\$201,000
13	Rehabilitate Water Mains T1301		1,300,000	1,300,000	\$7,399,000
15	Computers, Servers, and Software		415,000	415,000	\$2,277,000
31	Budd-Eighth - Dalton to Evans		1,946,000	1,946,000	\$5,500,000
33	Storage Area Network Equipment		300,000	300,000	\$500,000
38	Madison - Observatory to Isabella		1,850,000	1,850,000	\$4,904,000
39	Brecon Tank Coating		50,000	50,000	\$500,000
40	Critical Backup Power Projects		600,000	600,000	\$600,000
41	Fume Hood Controllers		466,000	466,000	\$466,000
42	Montgomery and Kennedy Avenues		500,000	500,000	\$500,000
43	Tank Coating 2012		600,000	600,000	\$600,000
44	Roof Replacement 2012		350,000	350,000	\$350,000
45	Duke, Socialville Foster		703,000	703,000	\$1,984,000
46	Continuous WQ Monitors Dist System		60,000	60,000	\$350,000
47	Concrete Pavement Replacement		96,000	96,000	\$1,601,000
48	Turbidimeters - Bolton Plant		102,000	102,000	\$115,000
49	Masonry Replacement		150,000	150,000	\$750,000
50	SCADA Remote Terminal Units		100,000	100,000	\$500,000
67	Meter Interface Units (MIU) 2012		829,000	829,000	\$829,000
51	Billing System Replacement				\$4,658,000
52	Well Pumps - Bolton Plant				\$156,000
53	New Water Mains T1101				\$7,677,000
54	Wellfield Expansion II - Bolton Plant				\$4,880,000
55	Tank Coating 2013				\$750,000
56	Roof Replacement 2013				\$350,000
58	Lab Upgrade & Expansion - Bolton Plant				\$1,897,000
59	INOVAH Payment System Upgrade				\$216,000

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 756 Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
60	Clifton - Woolper to Dixmyth				\$2,500,000
61	Delhi Water Tank Painting				\$389,000
62	Cherry Grove Elevated Interior Coating				\$400,000
63	Crane Equipment Improvements				\$152,000
64	Filter Backwash Turbidimeters				\$100,000
65	Intake Pier Access Bridge Painting				\$200,000
68	Autoclave				\$50,000
70	Meter Interface Units (MIU) 2013				\$1,043,000
71	Mt. Airy Exterior Renovation				\$5,404,000
69	Kennedy Heights Pump Station Mods				\$1,000,000
72	Tennyson Pump Discharge Valve Upgrade				\$600,000
73	Wesselman Road PRV				\$1,300,000
74	Tank Coating 2014				\$550,000
75	Roof Replacement 2014				\$400,000
76	Delhi PRV				\$500,000
77	Dehumidification System - Miller Plant				\$300,000
78	Convergence Infrastructure (VoIP)				\$1,216,000
83	Wash Water Recovery Pumps				\$48,000
84	Meter Interface Units (MIU) 2014				\$1,043,000
85	Operating System Upgrade				\$427,000
86	Gas Chromatograph w/MS for VOC Analysis				\$165,000
87	On-line Chlorine Monitors - Miller Plant				\$120,000
88	Reporting Application Server Replacement				\$106,000
89	Software Management System (SMS) Replace				\$148,000
90	Remote Terminal Units (RTUs) Equipment				\$300,000
91	Chester Park Complex Virtual Environment				\$150,000
103	Solar Recording Charts				\$126,000
104	Fields Ertel Road Check Valve				\$100,000
105	Constance Dosing & Monitoring				\$26,000
106	IT Service Management				\$1,432,000
107	SCADA Communications Front End (CFE)				\$122,000

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 756 Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
79	Document Management Upgrade				\$200,000
80	Enterprise Asset Management System				\$5,467,000
81	Call Center Equipment				\$2,721,000
82	PeopleSoft Upgrade				\$550,000
92	Filter Automation - Bolton Plant				\$240,000
93	Gas Chromatograph w/MS for SOC Analysis				\$150,000
94	Gas Chromatograph w/Mass Spectromter-3				\$115,000
95	Network Upgrade-Chester Park and Miller				\$591,000
96	Iron Feeder Upgrade - Miller Plant				\$300,000
97	Lime Feeder #1 & 4 Upgrade- Miller Plant				\$200,000
98	Lamella Sludge Pumps #2-9 -Miller Plant				\$300,000
99	Security Fence and Camera Upgrades				\$300,000
100	Lime Feeder #1 & 4 - Bolton Plant				\$308,000
101	Sand Filter Valves - Miller Plant				\$1,200,000
102	Building Security System Upgrade				\$300,000
108	Powered Activated Carbon Storage & Feed				\$1,431,000
109	Total Organic Halide (TOC) Analyzer				\$60,000
110	HVAC - AHU Upgrades - Miller Plant				\$400,000
111	Electric Panel and Lighting Upgrades				\$100,000
112	Meter Interface Units (MIU) 2015				\$1,043,000
113	Plainfield/Montgomery				\$3,350,000
114	Tank Coating 2015				\$1,350,000
115	Roof Replacement 2015				\$400,000
118	Chem East Concrete Repair				\$740,000
119	Madison/Ridge-Isabella to Duck Creek				\$700,000
120	Filter Building Boiler - Miller Plant				\$82,000
121	Lamella Rapid Mix Pump - Miller Plant				\$120,000
122	Tapered Screw Conveyor - Miller Plant				\$75,000
123	HVAC Dehumidifier Upgrade - Miller Plant				\$180,000
124	Fluoride Feeder Upgrade				\$60,000
125	Lamella Sludge Collectors - Miller Plant				\$150,000

## 2011-2016 Capital Improvement Program Restricted Funds Approved Projects

### Fund: 756 Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
126	Caustic Soda Storage Tank - Miller Plant				\$120,000
127	Furnace Air Compressor - Miller Plant				\$50,000
128	Contamination Warning System Replacement				\$694,000
129	Wellhead Protection Monitoring Wells				\$75,000
130	Influent Flume Bypass - Bolton Plant				\$1,019,000
140	Electric Heater Upgrades - Miller Plant				\$100,000
141	HVAC Air Conditioners - Miller Plant				\$90,000
142	Chester Park Complex Carpet Upgrade				\$200,000
143	Innovation Way				\$305,000
147	Reservoir #1 Cascade Repair-Miller Plant				\$75,000
148	SCADA Remote Site Communications				\$643,000
149	Early Detection of Algae				\$500,000
150	All Pipe Model Water Quality Validation				\$300,000
116	Granular Activated Carbon Storage				\$467,000
117	Spring Grove and Western				\$50,000
131	Eden Park Feeder 4				\$200,000
132	McMillan Avenue-Essex to Clifton				\$500,000
133	Eggleston and 9th Streets				\$100,000
134	Pete Rose Way/Eggleston-Broadway				\$200,000
135	Winton Road - Froome to Reservoir				\$150,000
136	Glenway - Warsaw to Rapid Run				\$300,000
137	McMillan and May Streets				\$150,000
138	Kennedy and Highland Avenues				\$269,000
139	Backup Power Generator - Western Hills				\$331,000
144	Meter Interface Units (MIU) 2016				\$842,000
145	HVAC - AHU Upgrades - Bolton Plant				\$80,000
146	Wash Water Pump Upgrades - Miller Plant				\$50,000
151	Tank Coating 2016				\$250,000
152	Roof Replacement 2016				\$600,000
153	Lime Residual Sitework - Bolton Plant				\$230,000
154	Comprehensive Reliability - Bolton Plant				\$597,000

**2011-2016 Capital Improvement Program  
Restricted Funds Approved Projects**

**Fund: 756 Water Works**

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
	Total: Water Works	52,527,500	56,786,500	109,314,000	\$332,080,000

**Fund: 759 Income Tax Transit**

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>	<u>2011-2016 Total</u>
<b>Department: Transportation &amp; Eng.</b>					
	71 Transit/Rail Corridor Preservation Acq.	100,000	100,000	200,000	\$600,000
	Total: Income Tax Transit	100,000	100,000	200,000	\$600,000
	Restricted Funds Total:	265,975,300	212,879,900	478,855,200	\$1,758,867,200

## PROJECTS BY PROGRAM

**READER'S GUIDE (Section 1)**

**ALL FUNDS**

**2011-2012 CAPITAL IMPROVEMENT PROGRAM  
PROJECTS by PROGRAM**

This report shows all projects in the 2011/2012 Biennial Capital Budget. The projects are identified by Department and each Program within a Department. Projects include General Capital projects, as well as Restricted Fund Capital projects. However, Special Revenue Capital and Federal/State Capital Matching funds are not included in this list. The capital project total for each Program is included with this report.

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>City Manager</b>				
<b>Program:</b>	<u>Economic Development Division</u>			
	Economic Development Opportunities	\$1,410,000		\$1,410,000
	Port Authority	\$1,000,000	\$1,000,000	\$2,000,000
	Retail/Commercial Opportunities	\$1,255,100	\$1,390,600	\$2,645,700
	<b>Program Total:</b>	\$3,665,100	\$2,390,600	\$6,055,700
<b>Program:</b>	<u>Office of Budget and Evaluation</u>			
	Enterprise Budget System	\$30,000		\$30,000
	<b>Program Total:</b>	\$30,000		\$30,000
<b>Program:</b>	<u>Office of Environmental Quality</u>			
	Center Hill Gas & Leachate	\$101,100	\$104,200	\$205,300
	Regulatory Compl. & Energy Conservation	\$11,400	\$20,400	\$31,800
	Wheeled Recycling Carts		\$325,500	\$325,500
	<b>Program Total:</b>	\$112,500	\$450,100	\$562,600
<b>Community Development</b>				
<b>Program:</b>	<u>Housing Development</u>			
	Citirama	\$800,000		\$800,000
	Downtown Housing Development	\$615,000	\$680,000	\$1,295,000
	Neighborhood Market Rate Housing		\$1,000,000	\$1,000,000
	Strategic Housing Initiatives Program	\$1,160,200	\$863,400	\$2,023,600
	<b>Program Total:</b>	\$2,575,200	\$2,543,400	\$5,118,600
<b>Program:</b>	<u>Business Development</u>			
	Commercial & Industrial Public Imprvts	\$400,000	\$400,000	\$800,000
	Community Development Focus District	\$300,000	\$350,000	\$650,000
	NBD Property Holding	\$10,000	\$18,000	\$28,000
	NBD Public Improvements	\$1,000,000	\$1,000,000	\$2,000,000
	SPUR	\$243,000	\$260,000	\$503,000
	Tax Incentive/Enterprize Zone	\$100,000	\$100,000	\$200,000
	<b>Program Total:</b>	\$2,053,000	\$2,128,000	\$4,181,000
<b>Program:</b>	<u>Property Maintenance Code Enforcement</u>			
	Hazard Abatement/Demolition Program	\$225,000	\$225,000	\$450,000
	<b>Program Total:</b>	\$225,000	\$225,000	\$450,000

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Enterprise Tech. Solutions</b>				
<b>Program:</b>	<u>ETS Administration</u>			
	Data Infrastructure Security	\$125,000	\$160,000	\$285,000
	<b>Program Total:</b>	\$125,000	\$160,000	\$285,000
<b>Program:</b>	<u>CTS Operations</u>			
	800 MHz Radios		\$20,000	\$20,000
	Communications Master Plan	\$190,000	\$266,000	\$456,000
	Radio Communications Equipment	\$30,000	\$30,000	\$60,000
	<b>Program Total:</b>	\$220,000	\$316,000	\$536,000
<b>Program:</b>	<u>CIT-CO Operations</u>			
	Cincinnati Financial System Upgrades	\$40,000	\$40,000	\$80,000
	Electronic Gov't (eGov) Web Enhancement	\$231,700	\$180,000	\$411,700
	<b>Program Total:</b>	\$271,700	\$220,000	\$491,700
<b>Program:</b>	<u>CAGIS Consortium Operations</u>			
	CAGIS Infrastructure	\$147,900	\$147,900	\$295,800
	<b>Program Total:</b>	\$147,900	\$147,900	\$295,800
<b>ES: Convention Center</b>				
<b>Program:</b>	<u>Duke Energy Convention Center</u>			
	Building Equipment	\$118,800		\$118,800
	Capital Maintenance	\$250,000	\$229,200	\$479,200
	CFS Upgrade		\$800	\$800
	Furniture, Fixtures, and Equipment	\$43,000		\$43,000
	<b>Program Total:</b>	\$411,800	\$230,000	\$641,800
<b>ES: Parking Facilities</b>				
<b>Program:</b>	<u>Off-Street Parking</u>			
	Gateway Garage Capital Improvements	\$50,000	\$50,000	\$100,000
	Structural Maintenance & Repair	\$536,500	\$1,243,000	\$1,779,500
	<b>Program Total:</b>	\$586,500	\$1,293,000	\$1,879,500
<b>Program:</b>	<u>Parking Business Services</u>			
	CFS Upgrade		\$6,300	\$6,300
	<b>Program Total:</b>		\$6,300	\$6,300

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Finance</b>				
<b>Program:</b>	<u>Financial Reporting and Monitoring</u>			
	CFS Upgrade		\$237,400	\$237,400
	<b>Program Total:</b>		\$237,400	\$237,400
<b>Program:</b>	<u>Licensing, Adm. Tax &amp; Transient Occupancy Tax</u>			
	Licensing Software & A/R Collection Sys.		\$50,000	\$50,000
	<b>Program Total:</b>		\$50,000	\$50,000
<b>Program:</b>	<u>Procurement</u>			
	AMS-CFS Procurement Software Upgrade	\$78,000		\$78,000
	<b>Program Total:</b>	\$78,000		\$78,000
<b>Fire</b>				
<b>Program:</b>	<u>Response</u>			
	Air Compressor Replacement		\$98,800	\$98,800
	Apparatus Door Closers		\$145,000	\$145,000
	Defibrillator - Replacement	\$138,600		\$138,600
	Fire Clothing Replacement	\$228,300	\$152,100	\$380,400
	<b>Program Total:</b>	\$366,900	\$395,900	\$762,800
<b>Health</b>				
<b>Program:</b>	<u>Health Administration</u>			
	Facilities Renovation & Repairs	\$238,300	\$273,700	\$512,000
	<b>Program Total:</b>	\$238,300	\$273,700	\$512,000
<b>Program:</b>	<u>Health Centers</u>			
	Dental Equipment Replacement		\$90,000	\$90,000
	<b>Program Total:</b>	\$0	\$90,000	\$90,000
<b>Program:</b>	<u>Dental Hygiene</u>			
	Dental Equipment Replacement	\$90,000		\$90,000
	<b>Program Total:</b>	\$90,000	\$0	\$90,000
<b>Law</b>				
<b>Program:</b>	<u>Administration</u>			
	Document Management System	\$90,000		\$90,000
	<b>Program Total:</b>	\$90,000		\$90,000

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Parks</b>				
<b>Program:</b>	<u>Planning &amp; Design</u>			
	Cincinnati Riverfront Park	\$4,000,000	\$2,000,000	\$6,000,000
	Park Infrastructure Rehabilitation	\$2,655,800	\$2,831,800	\$5,487,600
	Yeatman's Cove Upper Walkway	\$1,000,000		\$1,000,000
	<b>Program Total:</b>	\$7,655,800	\$4,831,800	\$12,487,600
<b>Planning &amp; Buildings</b>				
<b>Program:</b>	<u>Administration</u>			
	Neighborhood Studies	\$80,600	\$89,200	\$169,800
	<b>Program Total:</b>	\$80,600	\$89,200	\$169,800
<b>Program:</b>	<u>Customer Services</u>			
	Permit Center IT Replacement & Upgrade	\$37,200		\$37,200
	<b>Program Total:</b>	\$37,200		\$37,200
<b>Public Services</b>				
<b>Program:</b>	<u>Traffic Control, Pavement &amp; Structure Maint.</u>			
	Sign Replacement	\$200,000	\$358,400	\$558,400
	<b>Program Total:</b>	\$200,000	\$358,400	\$558,400
<b>Program:</b>	<u>Neighborhood Investment Services</u>			
	Trash Receptacles	\$150,000	\$150,000	\$300,000
	<b>Program Total:</b>	\$150,000	\$150,000	\$300,000
<b>Program:</b>	<u>Property Management</u>			
	City Facility Renovation and Repairs	\$2,234,000	\$2,200,000	\$4,434,000
	Community Facility Improvements	\$600,000	\$600,000	\$1,200,000
	District Two Garage Repair	\$50,000		\$50,000
	Findlay Market Improvements	\$100,600	\$108,800	\$209,400
	I-75 Expansion/Public Services Relocate	\$1,000,000	\$2,500,000	\$3,500,000
	NURFC Permanent Exhibit	\$300,000		\$300,000
	Replacement Facilities	\$1,048,600	\$1,338,400	\$2,387,000
	<b>Program Total:</b>	\$5,333,200	\$6,747,200	\$12,080,400
<b>Program:</b>	<u>Fleet Services</u>			
	Fleet Replacements	\$4,301,900	\$4,746,200	\$9,048,100
	<b>Program Total:</b>	\$4,301,900	\$4,746,200	\$9,048,100

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Recreation</b>				
<b>Program:</b>	<u>Aquatics</u>			
	Aquatics Facilities Renovation	\$1,650,000	\$2,000,000	\$3,650,000
	<b>Program Total:</b>	\$1,650,000	\$2,000,000	\$3,650,000
<b>Program:</b>	<u>Athletics</u>			
	Athletics Facilities Renovation	\$287,000	\$721,500	\$1,008,500
	Outdoor Facilities Renovation	\$473,200	\$533,200	\$1,006,400
	<b>Program Total:</b>	\$760,200	\$1,254,700	\$2,014,900
<b>Program:</b>	<u>Community Center Operations</u>			
	Compliance with ADA	\$100,000	\$100,000	\$200,000
	<b>Program Total:</b>	\$100,000	\$100,000	\$200,000
<b>Program:</b>	<u>Planning &amp; Development</u>			
	Recreation Facilities Renovation	\$1,850,000	\$1,355,500	\$3,205,500
	<b>Program Total:</b>	\$1,850,000	\$1,355,500	\$3,205,500
<b>Sewers</b>				
<b>Program:</b>	<u>Wastewater Engineering</u>			
	Ardmore Ave. Sewer Replacement	\$1,470,200		\$1,470,200
	Asset Rehab and Replacement Plan	\$1,000,000	\$500,000	\$1,500,000
	Badgeley RTC Reloc and Grit Pit	\$1,873,000		\$1,873,000
	Barringtonhls BLKF GVOLZ/KAK		\$5,004,700	\$5,004,700
	Beckman Pump Station Elimination	\$101,800		\$101,800
	Bender Rd Aerial Sewer Crossing	\$129,000		\$129,000
	Benson St. Sewer Replacement	\$2,859,000		\$2,859,000
	Beverly Hill Drive Sewer Replacement		\$274,700	\$274,700
	CIP Project Planning 2011	\$2,500,000		\$2,500,000
	CIP Project Planning 2012		\$2,000,000	\$2,000,000
	Cora Avenue Sewer Replacement	\$189,500		\$189,500
	Country Club Estates PS Elimination	\$1,444,900		\$1,444,900
	CSO 135 Improvements	\$43,400		\$43,400
	CSO 170 Improvements	\$42,400		\$42,400
	CSO 179 Sewer Separation		\$198,400	\$198,400
	CSO 187 Improvements	\$39,100		\$39,100

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Sewers-(Continued)</b>				
<b>Program:</b>	<u>Wastewater Engineering</u>			
	CSO 194 High Point Sewer Separation	\$480,000		\$480,000
	CSO 195 Westwood Northern Sewer Separ.	\$120,000		\$120,000
	CSO 214 Storage Facility	\$2,505,200	\$218,800	\$2,724,000
	CSO 410 Stream Separation	\$1,459,700		\$1,459,700
	CSO 43 Improvements	\$44,400		\$44,400
	CSO 483 Sewer Separation	\$5,618,500		\$5,618,500
	CSO 500 Improvements	\$42,900		\$42,900
	CSO 501 Improvements	\$43,400		\$43,400
	CSO 512 Improvements		\$20,000	\$20,000
	CSO 513 Sewer Separation		\$198,900	\$198,900
	CSO 514 Sewer Separation		\$105,300	\$105,300
	CSO 525 Mt. Airy Grating Sewer Separ.	\$192,000		\$192,000
	CSO 54 Improvements	\$40,200		\$40,200
	CSO 549 Improvements	\$43,900		\$43,900
	CSO 550 Improvements	\$44,400		\$44,400
	CSO 551 Sewer Separation	\$567,100	\$59,800	\$626,900
	CSO 552 Improvements	\$41,900		\$41,900
	CSO 553 Sewer Separation	\$293,000	\$59,800	\$352,800
	Dellers Glen PS Elimination	\$467,000		\$467,000
	Dellway Ave Sewer Replacement	\$2,592,600		\$2,592,600
	Diehl Road Sewer Replacement	\$630,300		\$630,300
	E. Mitchell Avenue Sewer Replacement		\$1,065,400	\$1,065,400
	Eastern/Delta Sewer Separation Ph 3	\$11,447,100		\$11,447,100
	Emergency Sewer Repairs 2011	\$8,150,000		\$8,150,000
	Emergency Sewer Repairs 2012		\$8,150,000	\$8,150,000
	Fairfax Avenue Sewer Replacement	\$333,500		\$333,500
	Fairmount Avenue Sewer Replacement		\$592,800	\$592,800
	Flow Modeling 2011	\$2,100,000		\$2,100,000
	Flow Modeling 2012		\$2,100,000	\$2,100,000
	Flow Monitoring and Rain Gauges 2011	\$3,800,000		\$3,800,000
	Flow Monitoring and Rain Gauges 2012		\$3,800,000	\$3,800,000

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Sewers-(Continued)</b>				
<b>Program:</b>	<u>Wastewater Engineering</u>			
	German Cemetery Sewer Replacement	\$191,500		\$191,500
	High Risk Asset Renewal 2011	\$5,150,000		\$5,150,000
	High Risk System Asset Renewal 2012		\$5,150,000	\$5,150,000
	Home Sewer Treatment System Extensions	\$1,833,700	\$1,897,900	\$3,731,600
	Homelawn Estates PS Elimination	\$131,900		\$131,900
	Indef. Delivery/Indef. Quantity 2011	\$120,000		\$120,000
	Indef. Delivery/Indef. Quantity 2012		\$120,000	\$120,000
	Land Acquisition	\$1,500,000	\$1,500,000	\$3,000,000
	Linwood Avenue Sewer Replacement		\$801,100	\$801,100
	LMWWTP Planning Bundle	\$1,033,700	\$5,582,800	\$6,616,500
	LMWWTP-Four Mile PS Improv	\$2,035,800		\$2,035,800
	Lower Mill Creek Partial Remedy	\$10,500,000	\$7,500,000	\$18,000,000
	Ludlow and Lafayette Parallel Sewer		\$126,100	\$126,100
	Lynnehaven Drive Sewer Replacement	\$145,900		\$145,900
	Macauley St. Sewer Replacement	\$100,700		\$100,700
	Manhole Rehabilitation Program	\$1,309,800	\$1,355,600	\$2,665,400
	MCWWTP Anaerobic Digester Conv	\$18,803,100		\$18,803,100
	MCWWTP Raw Sewage PS Upgrade	\$3,420,600	\$7,944,200	\$11,364,800
	Millbrook [#]2 PS Upgrade		\$1,570,200	\$1,570,200
	Moeller Avenue Sewer Replacement	\$989,800		\$989,800
	MSD Sustainable Infrastructure Program	\$27,000,000	\$34,000,000	\$61,000,000
	MSD-DUKE Sewer Televising Partnership	\$10,000,000	\$10,000,000	\$20,000,000
	Mt. Airy Forest Sewer Replacement	\$3,527,000		\$3,527,000
	MUCRWWTP Electrical Upgrades	\$7,067,500		\$7,067,500
	North Avondale Basin Study	\$698,000		\$698,000
	RDI/I Program	\$4,003,800	\$4,166,100	\$8,169,900
	Reliability Services	\$1,348,500		\$1,348,500
	Remaining Asset Allowance 2012		\$9,673,700	\$9,673,700
	SCADA System Installs and Upgrades	\$11,802,600		\$11,802,600
	Sewer Relining Program	\$7,858,200	\$8,133,200	\$15,991,400
	Shasta Place Sewer Replacement	\$227,600		\$227,600

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Sewers-(Continued)</b>				
<b>Program:</b>	<u>Wastewater Engineering</u>			
	Spring Leaf Pump Station Elimination	\$675,200		\$675,200
	SSO 1000 Elimination	\$268,000		\$268,000
	SSO 228 Elimination	\$201,200		\$201,200
	SSO 603 and 704 Improvements	\$3,824,400		\$3,824,400
	SSO 700 Storage Facility		\$5,639,200	\$5,639,200
	Towers East PS Elimination	\$2,154,100		\$2,154,100
	Upper Duck Creek HRT Facility	\$2,700,100	\$648,800	\$3,348,900
	Urgent Capacity Response	\$2,619,500	\$2,711,200	\$5,330,700
	Value Engineering	\$375,000	\$375,000	\$750,000
	Wasson Road Sewer Replacement		\$338,300	\$338,300
	Wastewater Engineering Building Lease	\$1,200,000	\$1,200,000	\$2,400,000
	Water in Basement Prevention Program	\$2,750,000	\$2,750,000	\$5,500,000
	Werk and Westbourne EHRT Facility	\$709,000		\$709,000
	Wesselman Sewer Phase II-A	\$3,937,500		\$3,937,500
	Westchase Park Pump Station Elim		\$322,700	\$322,700
	White Oak Pump Station Elimination	\$174,100		\$174,100
	Wilder Avenue Sewer Replacement	\$238,000		\$238,000
	WWIP Development Studies and Reports	\$1,684,600	\$1,730,400	\$3,415,000
	WWIP Mangement and Suppoprt Services	\$12,800,000	\$13,000,000	\$25,800,000
	WWT Roofing and Paving Rehab/Replmt.	\$209,200	\$209,200	\$418,400
	<b>Program Total:</b>	\$210,069,000	\$152,794,300	\$362,863,300
<b>Program:</b>	<u>Stormwater - Planning/Design</u>			
	3674 Hillside Ave. Stormwtr. Intake Imp.	\$270,000	\$230,000	\$500,000
	Dyer Street Drainage Improvements	\$301,000		\$301,000
	Eatondale Stormwater Intake Imprvmnts.		\$250,000	\$250,000
	Guerley Rd. Outlet to Sunset Drain Imp.	\$874,000		\$874,000
	Hartwell Community Drainage Imprvmnts.		\$100,000	\$100,000
	Hillside Avenue Drainage Improvements	\$100,000	\$100,000	\$200,000
	Settle - Madison to Roe		\$32,000	\$32,000
	St. Leo Place Drainage Correction	\$50,000	\$250,000	\$300,000
	<b>Program Total:</b>	\$1,595,000	\$962,000	\$2,557,000

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Sewers-(Continued)</b>				
<b>Program:</b>	<u>Stormwater - Flood Control</u>			
	Barrier Dam Facility Repairs	\$100,000	\$100,000	\$200,000
	<b>Program Total:</b>	\$100,000	\$100,000	\$200,000
<b>Transportation &amp; Eng.</b>				
<b>Program:</b>	<u>Director's Office</u>			
	Information Systems Acquisition	\$130,000	\$150,000	\$280,000
	<b>Program Total:</b>	\$130,000	\$150,000	\$280,000
<b>Program:</b>	<u>Transportation Planning and Urban Design</u>			
	Columbia Parkway Enhancements	\$185,000	\$50,000	\$235,000
	Convention Center Expansion	\$1,000,000	\$1,000,000	\$2,000,000
	Downtown Infrastrctr. Coord. & Implmntn.	\$550,000	\$400,000	\$950,000
	Gateways/Greenways Improvement	\$465,000	\$400,000	\$865,000
	Innovative Transportation Strategies	\$500,000	\$500,000	\$1,000,000
	OKI Corridor Studies	\$200,000	\$200,000	\$400,000
	Over-the-Rhine Streetscape Imprv.	\$600,000	\$700,000	\$1,300,000
	Riverfront Infrastrctr. Coord. & Impl.	\$100,000	\$25,000	\$125,000
	Safety Improvements	\$100,000	\$100,000	\$200,000
	Street Calming Program	\$200,000	\$200,000	\$400,000
	Transit/Rail Corridor Preservation Acq.	\$100,000	\$100,000	\$200,000
	<b>Program Total:</b>	\$4,000,000	\$3,675,000	\$7,675,000
<b>Program:</b>	<u>Engineering</u>			
	Bicycle Transportation Program	\$600,000	\$600,000	\$1,200,000
	Bridge Rehabilitation Program	\$900,000	\$1,400,000	\$2,300,000
	Colerain Ave. Virginia to Leeper Impr.	\$100,000	\$100,000	\$200,000
	Colerain Corr. Imp. I-74 to Spring Grv	\$100,000	\$100,000	\$200,000
	Curb Ramps - Street Rehab	\$400,000	\$440,000	\$840,000
	Downtown Public Paver Replacement	\$50,000	\$50,000	\$100,000
	Harrison Avenue Improvements	\$500,000		\$500,000
	Hillside Stairway Rehab. Program	\$250,000	\$250,000	\$500,000
	Ohio River Trail - Downtown to Salem	\$100,000	\$400,000	\$500,000
	Pavement Management	\$170,000	\$170,000	\$340,000
	ROW Ordinance Implementation	\$100,000	\$100,000	\$200,000

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Transportation &amp; Eng.-(Continued)</b>				
<b>Program:</b>	<u>Engineering</u>			
	SCIP Loan Repayment	\$215,000	\$215,000	\$430,000
	Sidewalk Repair Program	\$700,000	\$750,000	\$1,450,000
	Spot Infrastructure Replacement	\$1,025,000	\$740,000	\$1,765,000
	Street Improvements	\$900,000	\$1,000,000	\$1,900,000
	Street Rehabilitation	\$9,700,000	\$10,500,000	\$20,200,000
	Uptown Access Improvements West MLK Dr.	\$400,000	\$400,000	\$800,000
	Wall Stab. & Landslide Correction	\$650,000	\$1,000,000	\$1,650,000
	Western Hills Viaduct Repair/Replmnt.	\$1,000,000	\$661,500	\$1,661,500
	<b>Program Total:</b>	\$17,860,000	\$18,876,500	\$36,736,500
<b>Program:</b>	<u>Traffic Engineering</u>			
	Computerized Traffic Signal System	\$200,000	\$200,000	\$400,000
	Duke Street Light Replmnt. Proj.		\$100,000	\$100,000
	LED Traffic and Pedestrian Signals	\$337,500	\$337,500	\$675,000
	Raised Pavement Markers	\$50,000	\$50,000	\$100,000
	Street Light Replacement Project		\$75,000	\$75,000
	Traffic Signal Controllers & Detectors	\$75,000	\$75,000	\$150,000
	Traffic Signal Installation & Renov.	\$830,000	\$830,000	\$1,660,000
	<b>Program Total:</b>	\$1,492,500	\$1,667,500	\$3,160,000
<b>Program:</b>	<u>General Aviation</u>			
	Airport Infrastructure Improvements	\$140,000	\$140,000	\$280,000
	CFS Upgrade		\$1,700	\$1,700
	FAA/ODOT Local Match	\$200,000	\$200,000	\$400,000
	Facility Improvements	\$215,500	\$236,100	\$451,600
	<b>Program Total:</b>	\$555,500	\$577,800	\$1,133,300
<b>Water Works</b>				
<b>Program:</b>	<u>Departmental Support Services</u>			
	Computers, Servers, and Software		\$415,000	\$415,000
	Storage Area Network Equipment		\$300,000	\$300,000
	<b>Program Total:</b>		\$715,000	\$715,000
<b>Program:</b>	<u>Commercial Services</u>			

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Water Works-(Continued)</b>				
<b>Program:</b>	<u>Commercial Services</u>			
	Meter Interface Units (MIU) 2012		\$829,000	\$829,000
	<b>Program Total:</b>		\$829,000	\$829,000
<b>Program:</b>	<u>Water Supply, Treatment and Distribution</u>			
	All Pipes Model	\$300,000		\$300,000
	Backup Power Generator - Constance	\$350,000	\$600,000	\$950,000
	Backup Power Generator - Eden Park	\$900,000	\$2,550,000	\$3,450,000
	Battery, Charger, and DC Panel	\$75,000	\$50,000	\$125,000
	Brecon Tank Coating		\$50,000	\$50,000
	Budd-Eighth - Dalton to Evans		\$1,946,000	\$1,946,000
	Carbon Transfer Pump - Miller Plant	\$14,000		\$14,000
	Castings/Street Improvements	\$354,000	\$365,000	\$719,000
	Columbia/Turtlecreek - Lebanon Phase IV	\$1,000,000	\$2,200,000	\$3,200,000
	Concrete Pavement Replacement		\$96,000	\$96,000
	Concrete Rehabilitation 2011	\$201,000		\$201,000
	Contamination Warning System	\$336,000	\$348,000	\$684,000
	Continuous WQ Monitors Dist System		\$60,000	\$60,000
	Continuous WQ Monitors Dist System 2011	\$65,000		\$65,000
	Critical Backup Power Projects		\$600,000	\$600,000
	Duke, Socialville Foster		\$703,000	\$703,000
	Eden Park Feeder 2 - Parsons Martin	\$800,000	\$1,650,000	\$2,450,000
	Electrical Transformers	\$85,000	\$85,000	\$170,000
	Field App Replacement on Large GCWW Pump	\$100,000	\$125,000	\$225,000
	Fume Hood Controllers		\$466,000	\$466,000
	Greenhills Tank	\$600,000		\$600,000
	Kemper Road Tank	\$200,000	\$3,500,000	\$3,700,000
	Kings Island Drive	\$2,400,000	\$350,000	\$2,750,000
	Kings Mills/Columbia - Lebanon Phase II	\$2,000,000	\$200,000	\$2,200,000
	Lebanon Pump Station	\$650,000	\$920,000	\$1,570,000
	Mack Tank Interior Coating 2011	\$249,000	\$351,000	\$600,000
	Madison - Observatory to Isabella		\$1,850,000	\$1,850,000
	Main Station Trans Switch Controls	\$60,000	\$60,000	\$120,000

## 2011-2012 All Funds Capital Budget Capital Budget Program Allocation

Department	Project Title	2011	2012	2011-2012 Total
<b>Water Works-(Continued)</b>				
<b>Program:</b>	<u>Water Supply, Treatment and Distribution</u>			
	Mason/Morrow/Millgrove Road-Lebanon Ph 3	\$1,200,000		\$1,200,000
	Masonry Rehabilitation 2011	\$175,000		\$175,000
	Masonry Replacement		\$150,000	\$150,000
	Montgomery and Kennedy Avenues		\$500,000	\$500,000
	Motor Control Center Equipment	\$100,000	\$100,000	\$200,000
	Private Development T1501	\$400,000	\$400,000	\$800,000
	Regeneration Furnace Equipment	\$60,000	\$60,000	\$120,000
	Rehabilitate Water Mains T1301		\$1,300,000	\$1,300,000
	Replacement Water Mains T1201	\$15,923,000	\$16,248,000	\$32,171,000
	Roof Replacement 2011	\$130,000		\$130,000
	Roof Replacement 2012		\$350,000	\$350,000
	SCADA Remote Terminal Units		\$100,000	\$100,000
	Secondary Basin Drive - Bolton Plant	\$515,000		\$515,000
	Station Valve Equipment	\$90,000	\$70,000	\$160,000
	Street Improvements T1401	\$5,500,000	\$6,100,000	\$11,600,000
	Survey GPS Rover and Base Station	\$120,000		\$120,000
	Tank Coating 2012		\$600,000	\$600,000
	Total Organic Carbon Analyzer	\$40,000		\$40,000
	Turbidimeters - Bolton Plant		\$102,000	\$102,000
	Ultraviolet Disinfection - Miller Plant	\$12,723,000	\$8,250,000	\$20,973,000
	Valve Replacement Program	\$275,000	\$275,000	\$550,000
	Water Main Relocation - Street Imprvmnts	\$4,537,500	\$1,512,500	\$6,050,000
	<b>Program Total:</b>	\$52,527,500	\$55,242,500	\$107,770,000
	<b>Grand Total</b>	\$321,735,300	\$268,379,900	\$590,115,200

THIS PAGE INTENTIONALLY LEFT BLANK

## PROJECTS BY NEIGHBORHOOD

**READER'S GUIDE (Section 2)**

**ALL FUNDS**

**2011-2012 CAPITAL IMPROVEMENT PROGRAM  
PROJECTS by NEIGHBORHOOD**

This report provides the budget amounts for all the projects approved for each of the City's 52 recognized neighborhoods, as well as project allocations that are Citywide or Systemwide for all funds. Citywide projects are those projects which benefit all 52 neighborhoods, while the Systemwide projects are those that benefit all 52 neighborhoods, as well as areas in Hamilton County. Additional categories describe if a project is inside or outside of the City or Hamilton County. These designations are assigned to each project by the departments. Projects are for the 2011/2012 Biennial Capital Budget and are identified by Department and the project departmental priority. Projects include General Capital projects, as well as Restricted Fund Capital projects. However, Special Revenue Capital and Federal/State Capital Matching funds are not included in this list.

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012 Total</u>
<b>Agency</b>					
<b>Avondale</b>					
Health	1	Dental Equipment Replacement	90,000		\$90,000
Recreation	3	Athletics Facilities Renovation		50,000	\$50,000
		General Capital Total:	90,000	50,000	\$140,000
Sewers	87	Dellway Ave Sewer Replacement	2,592,600		\$2,592,600
		MSD Capital Improvements Total:	2,592,600		\$2,592,600
		Avondale Total:	2,682,600	50,000	\$2,732,600
<b>Bond Hill</b>					
Community Development	8	Community Development Focus District	45,000	52,500	\$97,500
		General Capital Total:	45,000	52,500	\$97,500
		Bond Hill Total:	45,000	52,500	\$97,500
<b>Camp Washington</b>					
Community Development	7	SPUR	60,750	65,000	\$125,750
Public Services	1	I-75 Expansion/Public Services Relocate	1,000,000	2,500,000	\$3,500,000
Recreation	1	Recreation Facilities Renovation	150,035		\$150,035
		General Capital Total:	1,210,785	2,565,000	\$3,775,785
		Camp Washington Total:	1,210,785	2,565,000	\$3,775,785
<b>Carthage</b>					
Recreation	5	Outdoor Facilities Renovation	75,002		\$75,002
		General Capital Total:	75,002		\$75,002
		Carthage Total:	75,002		\$75,002
<b>Clifton</b>					
Recreation	1	Recreation Facilities Renovation		500,044	\$500,044
Recreation	4	Compliance with ADA		100,000	\$100,000
		General Capital Total:		600,044	\$600,044
Sewers	12	Ludlow and Lafayette Parallel Sewer		126,100	\$126,100
Sewers	26	CSO 179 Sewer Separation		198,400	\$198,400
		MSD Capital Improvements Total:		324,500	\$324,500
		Clifton Total:		924,544	\$924,544
<b>College Hill</b>					
Community Development	8	Community Development Focus District	60,000	70,000	\$130,000

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>College Hill</b>					
Recreation	5	Outdoor Facilities Renovation		75,021	\$75,021
		General Capital Total:	60,000	145,021	\$205,021
		College Hill Total:	60,000	145,021	\$205,021
<b>Columbia Tusculum</b>					
Transportation & Eng.	44	Columbia Parkway Enhancements	185,000	50,000	\$235,000
		General Capital Total:	185,000	50,000	\$235,000
		Columbia Tusculum Total:	185,000	50,000	\$235,000
<b>Corryville</b>					
Transportation & Eng.	46	Uptown Access Improvements West MLK Dr.	400,000	400,000	\$800,000
		General Capital Total:	400,000	400,000	\$800,000
		Corryville Total:	400,000	400,000	\$800,000
<b>Downtown</b>					
ES: Convention Center	1	Furniture, Fixtures, and Equipment	43,000		\$43,000
ES: Convention Center	2	Capital Maintenance	250,000	229,200	\$479,200
ES: Convention Center	3	Building Equipment	118,800		\$118,800
		Convention Center Total:	411,800	229,200	\$641,000
Community Development	3	Downtown Housing Development	615,000	680,000	\$1,295,000
Parks	2	Cincinnati Riverfront Park	4,000,000	2,000,000	\$6,000,000
Parks	6	Yeatman's Cove Upper Walkway	1,000,000		\$1,000,000
Public Services	8	NURFC Permanent Exhibit	300,000		\$300,000
Transportation & Eng.	20	Downtown Public Paver Replacement	50,000	50,000	\$100,000
Transportation & Eng.	40	Riverfront Infrastctr. Coord. & Impl.	100,000	25,000	\$125,000
Transportation & Eng.	45	Downtown Infrastctr. Coord. & Implmntn.	550,000	400,000	\$950,000
Transportation & Eng.	55	Convention Center Expansion	1,000,000	1,000,000	\$2,000,000
		General Capital Total:	7,615,000	4,155,000	\$11,770,000
ES: Parking Facilities	1	Structural Maintenance & Repair	536,500	1,243,000	\$1,779,500
ES: Parking Facilities	2	Gateway Garage Capital Improvements	50,000	50,000	\$100,000
		Parking Facilities Total:	586,500	1,293,000	\$1,879,500
Water Works	37	Water Main Relocation - Street Imprvmnts	2,268,750	756,250	\$3,025,000
		Water Works Total:	2,268,750	756,250	\$3,025,000
		Downtown Total:	10,882,050	6,433,450	\$17,315,500

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>East End</b>					
Transportation & Eng.	61	Airport Infrastructure Improvements	140,000	140,000	\$280,000
Transportation & Eng.	62	FAA/ODOT Local Match	200,000	200,000	\$400,000
Transportation & Eng.	63	Facility Improvements	215,500	236,100	\$451,600
		General Aviation Total:	555,500	576,100	\$1,131,600
Recreation	5	Outdoor Facilities Renovation	150,004		\$150,004
Transportation & Eng.	35	Ohio River Trail - Downtown to Salem	100,000	400,000	\$500,000
		General Capital Total:	250,004	400,000	\$650,004
Sewers	43	LMWWTP Planning Bundle	1,033,700	5,582,800	\$6,616,500
Sewers	63	Eastern/Delta Sewer Separation Ph 3	11,447,100		\$11,447,100
Sewers	119	LMWWTP-Four Mile PS Improv	2,035,800		\$2,035,800
		MSD Capital Improvements Total:	14,516,600	5,582,800	\$20,099,400
		East End Total:	15,322,104	6,558,900	\$21,881,004
<b>East Price Hill</b>					
Recreation	1	Recreation Facilities Renovation		199,936	\$199,936
Recreation	2	Aquatics Facilities Renovation		600,000	\$600,000
Recreation	3	Athletics Facilities Renovation	90,003		\$90,003
		General Capital Total:	90,003	799,936	\$889,939
		East Price Hill Total:	90,003	799,936	\$889,939
<b>Evanston</b>					
Sewers	121	Fairfax Avenue Sewer Replacement	333,500		\$333,500
		MSD Capital Improvements Total:	333,500		\$333,500
		Evanston Total:	333,500		\$333,500
<b>Hartwell</b>					
Recreation	2	Aquatics Facilities Renovation	1,500,015		\$1,500,015
		General Capital Total:	1,500,015		\$1,500,015
Sewers	6	Hartwell Community Drainage Imprvmnts.		100,000	\$100,000
		Stormwater Management Total:		100,000	\$100,000
		Hartwell Total:	1,500,015	100,000	\$1,600,015
<b>Hyde Park</b>					
Public Services	9	District Two Garage Repair	50,000		\$50,000

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Hyde Park</b>					
		General Capital Total:	50,000		\$50,000
Water Works	38	Madison - Observatory to Isabella		1,295,000	\$1,295,000
		Water Works Total:		1,295,000	\$1,295,000
		Hyde Park Total:	50,000	1,295,000	\$1,345,000
<b>Kennedy Heights</b>					
Recreation	5	Outdoor Facilities Renovation		75,021	\$75,021
		General Capital Total:		75,021	\$75,021
Sewers	35	SSO 228 Elimination	201,200		\$201,200
		MSD Capital Improvements Total:	201,200		\$201,200
Water Works	42	Montgomery and Kennedy Avenues		125,000	\$125,000
		Water Works Total:		125,000	\$125,000
		Kennedy Heights Total:	201,200	200,021	\$401,221
<b>Linwood</b>					
Recreation	5	Outdoor Facilities Renovation	60,002	75,021	\$135,023
		General Capital Total:	60,002	75,021	\$135,023
		Linwood Total:	60,002	75,021	\$135,023
<b>Lower Price Hill</b>					
Community Development	7	SPUR	60,750	65,000	\$125,750
		General Capital Total:	60,750	65,000	\$125,750
Sewers	33	Lower Mill Creek Partial Remedy	5,250,000	3,750,000	\$9,000,000
Sewers	86	Wastewater Engineering Building Lease	1,200,000	1,200,000	\$2,400,000
Sewers	106	MCWWTP Raw Sewage PS Upgrade	3,420,600	7,944,200	\$11,364,800
Sewers	110	MCWWTP Anaerobic Digester Conv	18,803,100		\$18,803,100
Sewers	112	Wilder Avenue Sewer Replacement	238,000		\$238,000
		MSD Capital Improvements Total:	28,911,700	12,894,200	\$41,805,900
		Lower Price Hill Total:	28,972,450	12,959,200	\$41,931,650
<b>Madisonville</b>					
Community Development	8	Community Development Focus District	90,000	105,000	\$195,000
Recreation	5	Outdoor Facilities Renovation		75,021	\$75,021
		General Capital Total:	90,000	180,021	\$270,021

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Madisonville</b>					
Sewers	48	CSO 43 Improvements	44,400		\$44,400
		MSD Capital Improvements Total:	44,400		\$44,400
Sewers	12	Settle - Madison to Roe		32,000	\$32,000
		Stormwater Management Total:		32,000	\$32,000
		Madisonville Total:	134,400	212,021	\$346,421
<b>Millvale</b>					
Recreation	2	Aquatics Facilities Renovation		600,000	\$600,000
		General Capital Total:		600,000	\$600,000
		Millvale Total:		600,000	\$600,000
<b>Mt. Adams</b>					
Public Services	7	Community Facility Improvements	150,000	201,000	\$351,000
		General Capital Total:	150,000	201,000	\$351,000
		Mt. Adams Total:	150,000	201,000	\$351,000
<b>Mt. Auburn</b>					
Sewers	99	Macaley St. Sewer Replacement	100,700		\$100,700
		MSD Capital Improvements Total:	100,700		\$100,700
		Mt. Auburn Total:	100,700		\$100,700
<b>Mt. Lookout</b>					
Sewers	117	Beverly Hill Drive Sewer Replacement		274,700	\$274,700
Sewers	122	Linwood Avenue Sewer Replacement		801,100	\$801,100
		MSD Capital Improvements Total:		1,075,800	\$1,075,800
		Mt. Lookout Total:		1,075,800	\$1,075,800
<b>Mt. Washington</b>					
Sewers	8	Dyer Street Drainage Improvements	301,000		\$301,000
		Stormwater Management Total:	301,000		\$301,000
		Mt. Washington Total:	301,000		\$301,000
<b>North Avondale</b>					
Sewers	95	North Avondale Basin Study	698,000		\$698,000
Sewers	111	Ardmore Ave. Sewer Replacement	1,470,200		\$1,470,200
		MSD Capital Improvements Total:	2,168,200		\$2,168,200

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>North Avondale</b>					
		North Avondale Total:	2,168,200		\$2,168,200
<b>North Fairmount</b>					
Transportation & Eng.	47	Harrison Avenue Improvements	250,000		\$250,000
		General Capital Total:	250,000		\$250,000
Sewers	5	St. Leo Place Drainage Correction	50,000	250,000	\$300,000
		Stormwater Management Total:	50,000	250,000	\$300,000
		North Fairmount Total:	300,000	250,000	\$550,000
<b>Northside</b>					
Community Development	8	Community Development Focus District	60,000	70,000	\$130,000
Health	1	Dental Equipment Replacement		90,000	\$90,000
Recreation	1	Recreation Facilities Renovation	1,600,065		\$1,600,065
Recreation	4	Compliance with ADA	100,000		\$100,000
Transportation & Eng.	41	Colerain Ave. Virginia to Leeper Impr.	100,000	100,000	\$200,000
Transportation & Eng.	48	Colerain Corr. Imp. I-74 to Spring Grv	100,000	100,000	\$200,000
		General Capital Total:	1,960,065	360,000	\$2,320,065
Sewers	98	Badgeley RTC Reloc and Grit Pit	1,873,000		\$1,873,000
Sewers	108	E. Mitchell Avenue Sewer Replacement		1,065,400	\$1,065,400
		MSD Capital Improvements Total:	1,873,000	1,065,400	\$2,938,400
		Northside Total:	3,833,065	1,425,400	\$5,258,465
<b>Oakley</b>					
Recreation	1	Recreation Facilities Renovation		555,484	\$555,484
		General Capital Total:		555,484	\$555,484
Sewers	53	CSO 500 Improvements	42,900		\$42,900
Sewers	54	CSO 501 Improvements	43,400		\$43,400
Sewers	57	CSO 551 Sewer Separation	567,100	59,800	\$626,900
Sewers	58	CSO 552 Improvements	41,900		\$41,900
Sewers	59	CSO 553 Sewer Separation	293,000	59,800	\$352,800
Sewers	116	Wasson Road Sewer Replacement		338,300	\$338,300
		MSD Capital Improvements Total:	988,300	457,900	\$1,446,200
Water Works	38	Madison - Observatory to Isabella		555,000	\$555,000
		Water Works Total:		555,000	\$555,000

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Oakley</b>					
		Oakley Total:	988,300	1,568,384	\$2,556,684
<b>Over-the-Rhine</b>					
Public Services	7	Community Facility Improvements	300,000	201,000	\$501,000
Public Services	10	Findlay Market Improvements	100,600	108,800	\$209,400
Transportation & Eng.	43	Over-the-Rhine Streetscape Imprv.	600,000	700,000	\$1,300,000
		General Capital Total:	1,000,600	1,009,800	\$2,010,400
Water Works	37	Water Main Relocation - Street Imprvmnts	2,268,750	756,250	\$3,025,000
		Water Works Total:	2,268,750	756,250	\$3,025,000
		Over-the-Rhine Total:	3,269,350	1,766,050	\$5,035,400
<b>Pleasant Ridge</b>					
Public Services	4	Replacement Facilities	1,048,600	803,040	\$1,851,640
Recreation	2	Aquatics Facilities Renovation		750,000	\$750,000
		General Capital Total:	1,048,600	1,553,040	\$2,601,640
Sewers	34	SSO 1000 Elimination	268,000		\$268,000
Sewers	49	CSO 54 Improvements	40,200		\$40,200
Sewers	51	CSO 187 Improvements	39,100		\$39,100
		MSD Capital Improvements Total:	347,300		\$347,300
		Pleasant Ridge Total:	1,395,900	1,553,040	\$2,948,940
<b>Queensgate</b>					
Public Services	7	Community Facility Improvements	150,000	198,000	\$348,000
		General Capital Total:	150,000	198,000	\$348,000
Water Works	31	Budd-Eighth - Dalton to Evans		1,946,000	\$1,946,000
		Water Works Total:		1,946,000	\$1,946,000
		Queensgate Total:	150,000	2,144,000	\$2,294,000
<b>Riverside</b>					
Recreation	3	Athletics Facilities Renovation		150,000	\$150,000
Recreation	5	Outdoor Facilities Renovation		99,975	\$99,975
		General Capital Total:		249,975	\$249,975
Sewers	80	CSO 410 Stream Separation	1,459,700		\$1,459,700
Sewers	84	Bender Rd Aerial Sewer Crossing	129,000		\$129,000

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Riverside</b>					
		MSD Capital Improvements Total:	1,588,700		\$1,588,700
Sewers	3	3674 Hillside Ave. Stormwtr. Intake Imp.	270,000	230,000	\$500,000
Sewers	4	Hillside Avenue Drainage Improvements	100,000	100,000	\$200,000
		Stormwater Management Total:	370,000	330,000	\$700,000
		Riverside Total:	1,958,700	579,975	\$2,538,675
<b>Roselawn</b>					
Community Development	8	Community Development Focus District	45,000	52,500	\$97,500
Recreation	3	Athletics Facilities Renovation	117,010		\$117,010
		General Capital Total:	162,010	52,500	\$214,510
		Roselawn Total:	162,010	52,500	\$214,510
<b>Sayler Park</b>					
Sewers	81	MUCRWWTP Electrical Upgrades	7,067,500		\$7,067,500
		MSD Capital Improvements Total:	7,067,500		\$7,067,500
		Sayler Park Total:	7,067,500		\$7,067,500
<b>Sedamsville</b>					
Sewers	7	Eatondale Stormwater Intake Imprvmnts.		250,000	\$250,000
		Stormwater Management Total:		250,000	\$250,000
		Sedamsville Total:		250,000	\$250,000
<b>South Cumminsville</b>					
Community Development	7	SPUR	60,750	65,000	\$125,750
		General Capital Total:	60,750	65,000	\$125,750
		South Cumminsville Total:	60,750	65,000	\$125,750
<b>South Fairmount</b>					
Community Development	7	SPUR	60,750	65,000	\$125,750
Transportation & Eng.	47	Harrison Avenue Improvements	250,000		\$250,000
Transportation & Eng.	56	Western Hills Viaduct Repair/Replmnt.	1,000,000	661,500	\$1,661,500
		General Capital Total:	1,310,750	726,500	\$2,037,250
Sewers	33	Lower Mill Creek Partial Remedy	5,250,000	3,750,000	\$9,000,000
Sewers	104	Fairmount Avenue Sewer Replacement		592,800	\$592,800
		MSD Capital Improvements Total:	5,250,000	4,342,800	\$9,592,800

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>South Fairmount</b>					
		South Fairmount Total:	6,560,750	5,069,300	\$11,630,050
<b>Spring Grove Village</b>					
Water Works	19	Masonry Rehabilitation 2011	87,500		\$87,500
		Water Works Total:	87,500		\$87,500
		Spring Grove Village Total:	87,500		\$87,500
<b>Walnut Hills</b>					
Sewers	96	German Cemetery Sewer Replacement	191,500		\$191,500
		MSD Capital Improvements Total:	191,500		\$191,500
		Walnut Hills Total:	191,500		\$191,500
<b>West End</b>					
Recreation	3	Athletics Facilities Renovation		75,036	\$75,036
		General Capital Total:		75,036	\$75,036
		West End Total:		75,036	\$75,036
<b>West Price Hill</b>					
Recreation	3	Athletics Facilities Renovation		300,000	\$300,000
		General Capital Total:		300,000	\$300,000
Sewers	2	Guerley Rd. Outlet to Sunset Drain Imp.	874,000		\$874,000
		Stormwater Management Total:	874,000		\$874,000
		West Price Hill Total:	874,000	300,000	\$1,174,000
<b>Westwood</b>					
Sewers	27	CSO 194 High Point Sewer Separation	480,000		\$480,000
Sewers	94	Cora Avenue Sewer Replacement	189,500		\$189,500
Sewers	101	Mt. Airy Forest Sewer Replacement	3,527,000		\$3,527,000
Sewers	102	Diehl Road Sewer Replacement	630,300		\$630,300
Sewers	103	Shasta Place Sewer Replacement	227,600		\$227,600
		MSD Capital Improvements Total:	5,054,400		\$5,054,400
		Westwood Total:	5,054,400		\$5,054,400
<b>Winton Hills</b>					
City Manager	1	Center Hill Gas & Leachate	101,100	104,200	\$205,300
Recreation	5	Outdoor Facilities Renovation	65,018		\$65,018

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Winton Hills</b>					
		General Capital Total:	166,118	104,200	\$270,318
Sewers	93	CSO 483 Sewer Separation	5,618,500		\$5,618,500
		MSD Capital Improvements Total:	5,618,500		\$5,618,500
		Winton Hills Total:	5,784,618	104,200	\$5,888,818
<b>Citywide</b>					
ES: Convention Center	4	CFS Upgrade		800	\$800
		Convention Center Total:		800	\$800
City Manager	1	Retail/Commercial Opportunities	1,255,100	1,390,600	\$2,645,700
City Manager	2	Regulatory Compl. & Energy Conservation	11,400	20,400	\$31,800
City Manager	2	Economic Development Opportunities	1,410,000		\$1,410,000
City Manager	4	Wheeled Recycling Carts		325,500	\$325,500
City Manager	5	Enterprise Budget System	30,000		\$30,000
City Manager	6	Port Authority	1,000,000	1,000,000	\$2,000,000
Community Development	1	Hazard Abatement/Demolition Program	225,000	225,000	\$450,000
Community Development	2	Strategic Housing Initiatives Program	1,160,200	863,400	\$2,023,600
Community Development	4	Citirama	800,000		\$800,000
Community Development	5	Neighborhood Market Rate Housing		1,000,000	\$1,000,000
Community Development	6	NBD Public Improvements	1,000,000	1,000,000	\$2,000,000
Community Development	9	Commercial & Industrial Public Imprvts	400,000	400,000	\$800,000
Community Development	10	Tax Incentive/Enterprize Zone	100,000	100,000	\$200,000
Community Development	11	NBD Property Holding	10,000	18,000	\$28,000
Finance	1	AMS-CFS Procurement Software Upgrade	78,000		\$78,000
Finance	3	Licensing Software & A/R Collection Sys.		50,000	\$50,000
Fire	2	Fire Clothing Replacement	228,300	152,100	\$380,400
Fire	3	Apparatus Door Closers		145,000	\$145,000
Fire	4	Defibrillator - Replacement	138,600		\$138,600
Fire	7	Air Compressor Replacement		98,800	\$98,800
Health	2	Facilities Renovation & Repairs	238,300	273,700	\$512,000
Law	1	Document Management System	90,000		\$90,000
Parks	1	Park Infrastructure Rehabilitation	2,655,800	2,831,800	\$5,487,600
Planning & Buildings	1	Neighborhood Studies	80,600	89,200	\$169,800
Planning & Buildings	5	Permit Center IT Replacement & Upgrade	37,200		\$37,200

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Citywide</b>					
Public Services	3	City Facility Renovation and Repairs	2,234,000	2,200,000	\$4,434,000
Public Services	4	Replacement Facilities		535,360	\$535,360
Public Services	5	Trash Receptacles	150,000	150,000	\$300,000
Public Services	6	Sign Replacement	200,000	358,400	\$558,400
Recreation	1	Recreation Facilities Renovation	99,900	100,036	\$199,936
Recreation	2	Aquatics Facilities Renovation	149,985	50,000	\$199,985
Recreation	3	Athletics Facilities Renovation	79,987	146,465	\$226,451
Recreation	5	Outdoor Facilities Renovation	123,174	133,140	\$256,314
Transportation & Eng.	1	Information Systems Acquisition	130,000	150,000	\$280,000
Transportation & Eng.	2	SCIP Loan Repayment	215,000	215,000	\$430,000
Transportation & Eng.	3	Innovative Transportation Strategies	500,000	500,000	\$1,000,000
Transportation & Eng.	4	Street Rehabilitation	9,700,000	10,500,000	\$20,200,000
Transportation & Eng.	5	Street Improvements	900,000	1,000,000	\$1,900,000
Transportation & Eng.	6	Traffic Signal Installation & Renov.	830,000	830,000	\$1,660,000
Transportation & Eng.	7	OKI Corridor Studies	200,000	200,000	\$400,000
Transportation & Eng.	8	Bridge Rehabilitation Program	900,000	1,400,000	\$2,300,000
Transportation & Eng.	9	Computerized Traffic Signal System	200,000	200,000	\$400,000
Transportation & Eng.	11	Wall Stab. & Landslide Correction	650,000	1,000,000	\$1,650,000
Transportation & Eng.	13	LED Traffic and Pedestrian Signals	337,500	337,500	\$675,000
Transportation & Eng.	14	Gateways/Greenways Improvement	465,000	400,000	\$865,000
Transportation & Eng.	15	Sidewalk Repair Program	700,000	750,000	\$1,450,000
Transportation & Eng.	16	Curb Ramps - Street Rehab	400,000	440,000	\$840,000
Transportation & Eng.	17	Safety Improvements	100,000	100,000	\$200,000
Transportation & Eng.	19	Traffic Signal Controllers & Detectors	75,000	75,000	\$150,000
Transportation & Eng.	22	Bicycle Transportation Program	600,000	600,000	\$1,200,000
Transportation & Eng.	23	Hillside Stairway Rehab. Program	250,000	250,000	\$500,000
Transportation & Eng.	26	Spot Infrastructure Replacement	1,025,000	740,000	\$1,765,000
Transportation & Eng.	27	Street Light Replacement Project		75,000	\$75,000
Transportation & Eng.	29	Street Calming Program	200,000	200,000	\$400,000
Transportation & Eng.	34	Pavement Management	170,000	170,000	\$340,000
Transportation & Eng.	49	Raised Pavement Markers	50,000	50,000	\$100,000
Transportation & Eng.	51	Duke Street Light Replmnt. Proj.		100,000	\$100,000
Transportation & Eng.	58	ROW Ordinance Implementation	100,000	100,000	\$200,000

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Citywide</b>					
		General Capital Total:	32,683,046	34,039,400	\$66,722,446
Transportation & Eng.	71	Transit/Rail Corridor Preservation Acq.	100,000	100,000	\$200,000
		Income Tax Transit Total:	100,000	100,000	\$200,000
ES: Parking Facilities	3	CFS Upgrade		6,300	\$6,300
		Parking Facilities Total:		6,300	\$6,300
Sewers	1	Barrier Dam Facility Repairs	100,000	100,000	\$200,000
		Stormwater Management Total:	100,000	100,000	\$200,000
Water Works	2	Replacement Water Mains T1201	7,961,500	8,124,000	\$16,085,500
Water Works	3	Street Improvements T1401	2,750,000	3,050,000	\$5,800,000
Water Works	12	Castings/Street Improvements	354,000	365,000	\$719,000
		Water Works Total:	11,065,500	11,539,000	\$22,604,500
		Citywide Total:	43,948,546	45,785,500	\$89,734,046
<b>Inside Ham Cty/Inside &amp; Outside City</b>					
Water Works	5	Backup Power Generator - Eden Park	900,000	2,550,000	\$3,450,000
Water Works	43	Tank Coating 2012		600,000	\$600,000
		Water Works Total:	900,000	3,150,000	\$4,050,000
		Inside Ham Cty/Inside & Outside City Total:	900,000	3,150,000	\$4,050,000
<b>Inside Ham Cty/Outside City</b>					
Sewers	1	Towers East PS Elimination	2,154,100		\$2,154,100
Sewers	3	Werk and Westbourne EHRT Facility	709,000		\$709,000
Sewers	13	SSO 700 Storage Facility		5,639,200	\$5,639,200
Sewers	15	CSO 512 Improvements		20,000	\$20,000
Sewers	16	CSO 513 Sewer Separation		198,900	\$198,900
Sewers	17	CSO 514 Sewer Separation		105,300	\$105,300
Sewers	28	CSO 195 Westwood Northern Sewer Separ.	120,000		\$120,000
Sewers	29	CSO 525 Mt. Airy Grating Sewer Separ.	192,000		\$192,000
Sewers	47	CSO 135 Improvements	43,400		\$43,400
Sewers	50	CSO 170 Improvements	42,400		\$42,400
Sewers	52	CSO 214 Storage Facility	2,505,200	218,800	\$2,724,000
Sewers	55	CSO 549 Improvements	43,900		\$43,900
Sewers	56	CSO 550 Improvements	44,400		\$44,400
Sewers	60	Upper Duck Creek HRT Facility	2,700,100	648,800	\$3,348,900

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Inside Ham Cty/Outside City</b>					
Sewers	75	Spring Leaf Pump Station Elimination	675,200		\$675,200
Sewers	76	Homelawn Estates PS Elimination	131,900		\$131,900
Sewers	77	White Oak Pump Station Elimination	174,100		\$174,100
Sewers	78	Wesselman Sewer Phase II-A	3,937,500		\$3,937,500
Sewers	79	Westchase Park Pump Station Elim		322,700	\$322,700
Sewers	82	Barringtnhls BLKF GVOLZ/KAK		5,004,700	\$5,004,700
Sewers	83	Dellers Glen PS Elimination	467,000		\$467,000
Sewers	85	Country Club Estates PS Elimination	1,444,900		\$1,444,900
Sewers	97	Benson St. Sewer Replacement	2,859,000		\$2,859,000
Sewers	100	Millbrook [#]2 PS Upgrade		1,570,200	\$1,570,200
Sewers	105	Lynnhaven Drive Sewer Replacement	145,900		\$145,900
Sewers	109	SSO 603 and 704 Improvements	3,824,400		\$3,824,400
Sewers	118	Beckman Pump Station Elimination	101,800		\$101,800
Sewers	120	Moeller Avenue Sewer Replacement	989,800		\$989,800
		MSD Capital Improvements Total:	23,306,000	13,728,600	\$37,034,600
Water Works	2	Replacement Water Mains T1201	7,961,500	8,124,000	\$16,085,500
Water Works	3	Street Improvements T1401	2,750,000	3,050,000	\$5,800,000
Water Works	17	Mack Tank Interior Coating 2011	249,000	351,000	\$600,000
Water Works	23	Greenhills Tank	600,000		\$600,000
Water Works	27	Kemper Road Tank	200,000	3,500,000	\$3,700,000
Water Works	39	Brecon Tank Coating		50,000	\$50,000
Water Works	42	Montgomery and Kennedy Avenues		375,000	\$375,000
		Water Works Total:	11,760,500	15,450,000	\$27,210,500
		Inside Ham Cty/Outside City Total:	35,066,500	29,178,600	\$64,245,100
<b>Outside Ham Cty/Outside City</b>					
Water Works	6	Lebanon Pump Station	650,000	920,000	\$1,570,000
Water Works	7	Kings Island Drive	2,400,000	350,000	\$2,750,000
Water Works	8	Kings Mills/Columbia - Lebanon Phase II	2,000,000	200,000	\$2,200,000
Water Works	9	Columbia/Turtlecreek - Lebanon Phase IV	1,000,000	2,200,000	\$3,200,000
Water Works	10	Mason/Morrow/Millgrove Road-Lebanon Ph 3	1,200,000		\$1,200,000
Water Works	16	Secondary Basin Drive - Bolton Plant	515,000		\$515,000
Water Works	18	Concrete Rehabilitation 2011	201,000		\$201,000
Water Works	19	Masonry Rehabilitation 2011	87,500		\$87,500

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Outside Ham Cty/Outside City</b>					
Water Works	30	Backup Power Generator - Constance	350,000	600,000	\$950,000
Water Works	45	Duke, Socialville Foster		703,000	\$703,000
		Water Works Total:	8,403,500	4,973,000	\$13,376,500
		Outside Ham Cty/Outside City Total:	8,403,500	4,973,000	\$13,376,500
<b>Systemwide</b>					
Transportation & Eng.	99	CFS Upgrade		1,700	\$1,700
		General Aviation Total:		1,700	\$1,700
Enterprise Tech. Solutions	1	Communications Master Plan	190,000	266,000	\$456,000
Enterprise Tech. Solutions	2	Data Infrastructure Security	125,000	160,000	\$285,000
Enterprise Tech. Solutions	3	Cincinnati Financial System Upgrades	40,000	40,000	\$80,000
Enterprise Tech. Solutions	4	CAGIS Infrastructure	147,900	147,900	\$295,800
Enterprise Tech. Solutions	5	Electronic Gov't (eGov) Web Enhancement	231,700	180,000	\$411,700
Enterprise Tech. Solutions	6	800 MHz Radios		20,000	\$20,000
Finance	2	CFS Upgrade		237,400	\$237,400
Public Services	2	Fleet Replacements	4,301,900	4,746,200	\$9,048,100
		General Capital Total:	5,036,500	5,797,500	\$10,834,000
Sewers	66	Sewer Relining Program	7,858,200	8,133,200	\$15,991,400
Sewers	67	Manhole Rehabilitation Program	1,309,800	1,355,600	\$2,665,400
Sewers	68	Water in Basement Prevention Program	2,750,000	2,750,000	\$5,500,000
Sewers	69	RDI/I Program	4,003,800	4,166,100	\$8,169,900
Sewers	70	WWIP Development Studies and Reports	1,684,600	1,730,400	\$3,415,000
Sewers	71	MSD Sustainable Infrastructure Program	27,000,000	34,000,000	\$61,000,000
Sewers	72	Urgent Capacity Response	2,619,500	2,711,200	\$5,330,700
Sewers	73	Home Sewer Treatment System Extensions	1,833,700	1,897,900	\$3,731,600
Sewers	74	WWIP Mangement and Suppoprt Services	12,800,000	13,000,000	\$25,800,000
Sewers	123	Land Acquisition	1,500,000	1,500,000	\$3,000,000
Sewers	124	Emergency Sewer Repairs 2011	8,150,000		\$8,150,000
Sewers	125	Emergency Sewer Repairs 2012		8,150,000	\$8,150,000
Sewers	129	SCADA System Installs and Upgrades	11,802,600		\$11,802,600
Sewers	130	CIP Project Planning 2011	2,500,000		\$2,500,000
Sewers	131	CIP Project Planning 2012		2,000,000	\$2,000,000
Sewers	135	WWT Roofing and Paving Rehab/Replmt.	209,200	209,200	\$418,400

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Systemwide</b>					
Sewers	136	Asset Rehab and Replacement Plan	1,000,000	500,000	\$1,500,000
Sewers	137	Reliability Services	1,348,500		\$1,348,500
Sewers	138	Remaining Asset Allowance 2012		9,673,700	\$9,673,700
Sewers	140	Flow Monitoring and Rain Gauges 2011	3,800,000		\$3,800,000
Sewers	141	Flow Monitoring and Rain Gauges 2012		3,800,000	\$3,800,000
Sewers	145	Flow Modeling 2011	2,100,000		\$2,100,000
Sewers	146	Flow Modeling 2012		2,100,000	\$2,100,000
Sewers	150	High Risk Asset Renewal 2011	5,150,000		\$5,150,000
Sewers	151	High Risk System Asset Renewal 2012		5,150,000	\$5,150,000
Sewers	155	MSD-DUKE Sewer Televising Partnershp	10,000,000	10,000,000	\$20,000,000
Sewers	157	Value Engineering	375,000	375,000	\$750,000
Sewers	163	Indef. Delivery/Indef. Quantity 2011	120,000		\$120,000
Sewers	164	Indef. Delivery/Indef. Quantity 2012		120,000	\$120,000
		MSD Capital Improvements Total:	109,914,900	113,322,300	\$223,237,200
Enterprise Tech. Solutions	7	Radio Communications Equipment	30,000	30,000	\$60,000
		Telecommunications Services Total:	30,000	30,000	\$60,000
Water Works	1	Ultraviolet Disinfection - Miller Plant	12,723,000	8,250,000	\$20,973,000
Water Works	4	Valve Replacement Program	275,000	275,000	\$550,000
Water Works	11	Private Development T1501	400,000	400,000	\$800,000
Water Works	13	Rehabilitate Water Mains T1301		1,300,000	\$1,300,000
Water Works	14	Station Valve Equipment	90,000	70,000	\$160,000
Water Works	15	Computers, Servers, and Software		415,000	\$415,000
Water Works	20	Roof Replacement 2011	130,000		\$130,000
Water Works	21	Regeneration Furnace Equipment	60,000	60,000	\$120,000
Water Works	22	Eden Park Feeder 2 - Parsons Martin	800,000	1,650,000	\$2,450,000
Water Works	24	Motor Control Center Equipment	100,000	100,000	\$200,000
Water Works	25	Electrical Transformers	85,000	85,000	\$170,000
Water Works	26	Contamination Warning System	336,000	348,000	\$684,000
Water Works	28	Battery, Charger, and DC Panel	75,000	50,000	\$125,000
Water Works	29	Total Organic Carbon Analyzer	40,000		\$40,000
Water Works	32	Field App Replacement on Large GCWW Pump	100,000	125,000	\$225,000
Water Works	33	Storage Area Network Equipment		300,000	\$300,000
Water Works	34	Continuous WQ Monitors Dist System 2011	65,000		\$65,000

## 2011-2012 Approved All Funds Capital Budget Projects by Neighborhood

<u>Neighborhood</u> <u>Agency</u>	<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2011-2012</u> <u>Total</u>
<b>Systemwide</b>					
Water Works	35	Survey GPS Rover and Base Station	120,000		\$120,000
Water Works	36	Main Station Trans Switch Controls	60,000	60,000	\$120,000
Water Works	40	Critical Backup Power Projects		600,000	\$600,000
Water Works	41	Fume Hood Controllers		466,000	\$466,000
Water Works	44	Roof Replacement 2012		350,000	\$350,000
Water Works	46	Continuous WQ Monitors Dist System		60,000	\$60,000
Water Works	47	Concrete Pavement Replacement		96,000	\$96,000
Water Works	48	Turbidimeters - Bolton Plant		102,000	\$102,000
Water Works	49	Masonry Replacement		150,000	\$150,000
Water Works	50	SCADA Remote Terminal Units		100,000	\$100,000
Water Works	57	All Pipes Model	300,000		\$300,000
Water Works	66	Carbon Transfer Pump - Miller Plant	14,000		\$14,000
Water Works	67	Meter Interface Units (MIU) 2012		829,000	\$829,000
		Water Works Total:	15,773,000	16,241,000	\$32,014,000
		Systemwide Total:	130,754,400	135,392,500	\$266,146,900
		Total All Neighborhoods	321,735,300	268,379,900	\$590,115,200

THIS PAGE INTENTIONALLY LEFT BLANK

## OPERATING BUDGET IMPACT

## **READER'S GUIDE**

### **ALL FUNDS**

#### **2011-2016 CAPITAL INVESTMENT PROGRAM IMPACT ON THE OPERATING BUDGET**

This report describes the relationship between the Capital Investment Program (CIP) and the Operating Budget. The debt service impact is provided for the General Capital Budget and the Restricted Funds Capital Budget. The net impact of estimated new operating and maintenance costs (or savings) related to a capital project is provided by Department for General Capital as well as Restricted Fund Capital projects. Special Revenue Capital and Federal/State Capital Matching funds are not included in this report.

**IMPACT OF 2011-2016 CAPITAL INVESTMENT PROGRAM  
ON THE OPERATING BUDGET**

The Capital Investment Program (CIP) has a direct and significant impact on the Operating Budget. A major factor in this relationship is the debt service costs in the Operating Budget for bonds issued for capital projects that require long-term financing. The 2011 Approved Operating Budget includes a total of \$200.8 million in debt service expenses: \$78.0 million related to the General Capital Budget and \$122.8 million related to the Restricted Funds Capital Budget. Debt service costs totaling \$214.1 million are included in the 2012 Approved Operating Budget: \$78.0 million for the General Capital Budget and \$136.1 million for the Restricted Funds Capital Budget (see following table).

<b>2011/2012 Approved Capital Budget Debt Service in the Operating Budget</b>				
Fund	2011 Debt Service		2012 Debt Service	
Bond Retirement *	\$	78,000,000	\$	78,000,000
Restricted Funds Capital	\$	122,843,470	\$	136,125,770
<b>Total</b>	<b>\$</b>	<b>200,843,470</b>	<b>\$</b>	<b>214,125,770</b>

\* The Bond Retirement Fund is utilized to pay the debt service on general obligation bonds and notes issued to raise funding for General Capital improvement projects.

When a capital project is developed, the new operating or maintenance costs associated with that new project are determined and this impact on the Operating Budget is considered before project commitments are made. Conversely, any savings to the Operating Budget are also considered when developing a new capital project. The construction of a new police station may generate increased maintenance costs, for example, because the new facility may be larger than the old facility, requiring more telecommunication and computer services. However, these increased costs may be offset by reduced utility costs, resulting from energy efficient doors, windows, and construction materials. The following report summarizes the estimated net operating and maintenance costs or savings associated with the 2011-2016 Approved CIP.

**Operating Budget Impact**  
**2011-2016 Capital Improvement Program**  
**Net Operating and Maintenance Costs or Savings (Estimated)**

*Note: Positive figures indicate Operating Budget additional costs; negative figures indicate savings.*

**Department of City Manager**

<b>Capital Project: Regulatory Compl. &amp; Energy Conservation 2011-2016 CIP Project Funding: \$97,300</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	(15,000)	(30,000)	(45,000)	(60,000)	(75,000)	(90,000)

**Description of Operating Impact**

Most City departments are anticipated to realize a non-personnel savings related to their Duke Energy electric expenditures.

**Description of Non-Financial Impact**

The non-financial impact of implementing this project will be increased energy conservation efforts, saving natural resources, and better comfort/productivity in City-owned buildings.

<b>Capital Project: Wheeled Recycling Carts 2011-2016 CIP Project Funding: \$2,191,100</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
		(908,000)	(908,000)	(908,000)	(908,000)	(908,000)

**Description of Operating Impact**

Implementation of this capital project will lead to an estimated savings of \$568,750 related to every other week curbside collection, and \$339,250 related to landfill tipping fee (disposal) costs.

**Description of Non-Financial Impact**

The non-financial impact of this capital project will conserve natural resources and landfill space. In addition, the implementation of a recycling program will contribute to the City of Cincinnati earning a "Green" reputation.

**Department of Community Development**

<b>Capital Project: Hazard Abatement/Demolition Program 2011-2016 CIP Project Funding: \$1,500,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	(11,000)	(11,000)	(12,000)	(12,000)	(13,000)	(13,000)

**Description of Operating Impact**

Implementing a program for building demolition will lead to a savings in non-personnel resources by eliminating unnecessary costs associated with barricading those same buildings.

**Description of Non-Financial Impact**

This project will improve public health and safety by demolishing hazardous structures.

**Department of Enterprise Tech. Solutions**

<b>Capital Project: Electronic Gov't (eGov) Web Enhancement 2011-2016 CIP Project Funding: \$1,331,700</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	(153,700)	(153,700)	(153,700)	(153,700)	(153,700)	(153,700)

**Description of Operating Impact**

The operating budget would need to increase by \$50,000 per year to support the entire eGov web team staff, equipment, licenses, maintenance, and services as the development is completed. Estimated non-personnel savings are attributable to reduced web publishing costs, enhanced processing of City forms, reduced web server costs, and reduced SSL Cert costs.

**Description of Non-Financial Impact**

This project will improve customer satisfaction and interaction.

**Operating Budget Impact**  
**2011-2016 Capital Improvement Program**  
**Net Operating and Maintenance Costs or Savings (Estimated)**

*Note: Positive figures indicate Operating Budget additional costs; negative figures indicate savings.*

**Department of Enterprise Tech. Solutions-(Continued)**

<b>Capital Project: Active Directory / Server Consolidation 2011-2016 CIP Project Funding: \$200,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	17,500	17,500	17,500	17,500	17,500	17,500

**Description of Operating Impact**

This project consolidates data, software, and hardware previously held within individual City department servers into a single platform with centralized support. Licensing and maintenance will cost \$4,500 the second year and then increase to \$17,500 annually thereafter.

**Description of Non-Financial Impact**

The consolidation of software and hardware will allow City departments to access server data in the event of failure.

**Department of Health**

<b>Capital Project: Dental Equipment Replacement 2011-2016 CIP Project Funding: \$180,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)

**Description of Operating Impact**

The Department of Health will reduce spending on equipment maintenance and repairs.

**Description of Non-Financial Impact**

The newer equipment will enable the Department of Health to provide better service to patients.

**Department of Parks**

<b>Capital Project: Cincinnati Riverfront Park 2011-2016 CIP Project Funding: \$6,000,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	400,000	600,000	675,000	725,000	725,000	725,000

**Description of Operating Impact**

The new park will be built over the next 8-10 years and will cost \$1.4 million a year to maintain when buildout is completed.

**Description of Non-Financial Impact**

This project will stimulate the local and regional economy and provide for improved economic development.

**Department of Sewers**

<b>Capital Project: Country Club Estates PS Elimination 2011-2016 CIP Project Funding: \$1,444,900</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	(30,000)	(30,900)	(31,800)	(32,800)	(33,800)	

**Description of Operating Impact**

Completion of the project will allow the Metropolitan Sewer District (MSD) to avoid the operational and maintenance costs of a pump station.

**Description of Non-Financial Impact**

This project will eliminate a pump station, which is functionally obsolete and has overflowed occasionally to a nearby creek.

**Operating Budget Impact**  
**2011-2016 Capital Improvement Program**  
**Net Operating and Maintenance Costs or Savings (Estimated)**

*Note: Positive figures indicate Operating Budget additional costs; negative figures indicate savings.*

<b>Department of Sewers-(Continued)</b>						
<b>Capital Project: Bender Rd Aerial Sewer Crossing 2011-2016 CIP Project Funding: \$129,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	(15,000)	(15,500)	(15,900)	(16,400)	(16,900)	
<b>Description of Operating Impact</b>						
This project will save personnel costs associated with removing debris from around the sewer and hauling and disposing of debris.						
<b>Description of Non-Financial Impact</b>						
This project will increase the safety factor of the aerial sewer and prevent it from breaking.						
<b>Capital Project: Dellers Glen PS Elimination 2011-2016 CIP Project Funding: \$467,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
		(42,000)	(61,000)	(44,500)		
<b>Description of Operating Impact</b>						
This project will eliminate the operating and maintenance costs at the Dellers Glen pump station.						
<b>Description of Non-Financial Impact</b>						
This project will prevent sewage backups due to mechanical failure.						
<b>Capital Project: Wilder Avenue Sewer Replacement 2011-2016 CIP Project Funding: \$238,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
			(50,000)			
<b>Description of Operating Impact</b>						
By rehabilitating an existing sewer, this project will reduce maintenance costs. The risk of non-performance includes the ultimate collapse of the public sewer, resulting in discharges to the environment, water-in-basement events, or damage to sewer structures assumed to cost \$50,000.						
<b>Description of Non-Financial Impact</b>						
This project will extend the service life of an existing sewer.						

<b>Department of Transportation &amp; Eng.</b>						
<b>Capital Project: LED Traffic and Pedestrian Signals 2011-2016 CIP Project Funding: \$2,362,500</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
	(20,000)	(20,000)	(20,000)	(20,000)	(20,000)	(20,000)
<b>Description of Operating Impact</b>						
The estimated annual saving is approximately \$20,000 in the non-personnel budget from reduced wash/relamp contracts (\$5,000) and savings of traffic signal energy (\$15,000).						
<b>Description of Non-Financial Impact</b>						
This project will reduce traffic signal outages by replacing incandescent-type traffic and pedestrian signals with energy efficient and longer life Light-Emitting Diode (LED) types.						

**Operating Budget Impact**  
**2011-2016 Capital Improvement Program**  
**Net Operating and Maintenance Costs or Savings (Estimated)**

*Note: Positive figures indicate Operating Budget additional costs; negative figures indicate savings.*

<b>Department of Water Works</b>						
<b>Capital Project: Ultraviolet Disinfection - Miller Plant 2011-2016 CIP Project Funding: \$22,973,000</b>	<b>Estimated Impact on Operating Budget Per Year</b>					
	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
			168,800	173,800	179,000	
<b>Description of Operating Impact</b>						
The estimated non-personnel expenses related to implementing this project are due to increased electric charges, replacement lamps and components for operation of the UV plant beginning in 2012.						
<b>Description of Non-Financial Impact</b>						
This project will provide an additional water treatment technology to protect public health.						

CITY MANAGER

## Capital Improvement Plan - City Manager

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b>General Capital Fund</b>								
1	Center Hill Gas & Leachate	101,100	104,200	109,500	112,100	110,000	116,800	\$653,700
1	Retail/Commercial Opportunities	1,255,100	1,390,600	1,428,800	1,439,300	1,449,900	1,414,500	\$8,378,200
2	Economic Development Opportunities	1,410,000						\$1,410,000
2	Regulatory Compl. & Energy Conservation	11,400	20,400	18,600	16,900	20,000	10,000	\$97,300
5	Enterprise Budget System	30,000						\$30,000
6	Port Authority	1,000,000	1,000,000					\$2,000,000
4	Wheeled Recycling Carts		325,500	483,000	471,900	459,600	451,100	\$2,191,100
General Capital Total:		3,807,600	2,840,700	2,039,900	2,040,200	2,039,500	1,992,400	\$14,760,300
Department of City Manager Total:		3,807,600	2,840,700	2,039,900	2,040,200	2,039,500	1,992,400	\$14,760,300

**General Capital Fund**

**Center Hill Gas & Leachate**

**Dept. Priority:** 1

**Description:** This project would provide funding for the continued operation and maintenance of the methane gas and leachate collection systems at the former Center Hill Landfill, and support compliance with State and Federal solid waste regulations.

**Purpose:** The purpose of this project is to maintain compliance with State and Federal solid waste regulations. The City must control, collect, and dispose of all leachate and methane gas until the Ohio Environmental Protection Agency decides that no further action is necessary.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		101,100	104,200	109,500	112,100	110,000	116,800	\$653,700
Total	105,000	101,100	104,200	109,500	112,100	110,000	116,800	\$653,700
Estimated Personnel Cost								\$0

**Retail/Commercial Opportunities**

**Dept. Priority:** 1

**Description:** This project would provide funding to enable the City to pursue retail and commercial tenants by offering incentives to leverage private investment. Project funding would also be used for project administration costs, predevelopment work, and to cover carrying costs (i.e., property taxes) on City-owned sites overseen by the Economic Development Division of the City Manager's Office.

**Purpose:** The purpose of this project is to create new employment opportunities while retaining existing jobs. The project would also foster positive business relationships, encourage business growth and investment, facilitate property development for commercial purposes, and cover carrying costs (i.e., real estate taxes) for City-owned properties overseen by the Economic Development Division of the City Manager's Office.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		1,255,100	1,390,600	1,428,800	1,439,300	1,449,900	1,414,500	\$8,378,200
Total	703,400	1,255,100	1,390,600	1,428,800	1,439,300	1,449,900	1,414,500	\$8,378,200
Estimated Personnel Cost		125,510	139,060	142,880	143,930	144,990	141,450	\$837,820

**Economic Development Opportunities**

**Dept. Priority:** 2

**Description:** This project would provide funding to enable the City to pursue economic development opportunities. Project funding would provide for site acquisition and related expenses.

**Purpose:** The purpose of this project is to create new employment opportunities while retaining existing jobs.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land		1,410,000						\$1,410,000
Total		1,410,000						\$1,410,000
Estimated Personnel Cost								\$0

**Regulatory Compl. & Energy Conservation**

**Dept. Priority:** 2

**Description:** This project provides funding to address regulatory compliance issues and energy efficiency projects. Project funding would also provide for feasibility and design activities necessary to support budget requests for larger capital projects addressing regulatory compliance or energy conservation. These resources would be available to assist any General Fund operation in any City department. Examples of projects include, but are not limited to, the purchase of a storage unit for hazardous waste prior to off-site shipment and the installation of occupancy sensors in City facilities to reduce lighting expenses.

**Purpose:** The purpose of this project is to assist City departments in achieving and maintaining compliance with environmental regulations, and conserving energy resources.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		11,400	20,400	18,600	16,900	20,000	10,000	\$97,300
Total	65,000	11,400	20,400	18,600	16,900	20,000	10,000	\$97,300
Estimated Personnel Cost								\$0

**Enterprise Budget System**

**Dept. Priority:** 5

**Description:** This project will provide resources to invest in information technology improvements in the Office of Budget and Evaluation related to planning and budgeting business processes. Resources will be used to purchase a contemporary business platform to support and integrate existing budget, financial, and personnel systems. This completes the remaining funding of this project.

**Purpose:** The purpose of this project is to enhance the Office of Budget and Evaluation's ability to store and retrieve the City's budget, financial, and personnel information so that business practices are streamlined, creating internal efficiencies and improved customer service. The enhancements will also provide improved and more streamlined processes for personnel in other City departments when performing budgeting tasks such as budget development and budget monitoring.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		30,000						\$30,000
Total		30,000						\$30,000
Estimated Personnel Cost		3,000						\$3,000

**Port Authority**

**Dept. Priority:** 6

**Description:** Funding for this project will be used by the Port of Greater Cincinnati Development Authority to provide the structure necessary to execute place-based strategies for new business and residential investment.

**Purpose:** The purpose of this project is to improve economic development opportunities throughout Cincinnati.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		1,000,000	1,000,000					\$2,000,000
Total		1,000,000	1,000,000					\$2,000,000
Estimated Personnel Cost								\$0

**Wheeled Recycling Carts**

**Dept. Priority:** 4

**Description:** This project would provide funding to cover the debt service on City bonds used to finance the purchase of wheeled recycling carts for all eligible Cincinnati households.

**Purpose:** The purpose of this project is to maximize citizen participation in the curbside recycling program, and maximize diversion of solid waste from the landfill.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment			325,500	483,000	471,900	459,600	451,100	\$2,191,100
Total			325,500	483,000	471,900	459,600	451,100	\$2,191,100
Estimated Personnel Cost								\$0

# COMMUNITY DEVELOPMENT

## Capital Improvement Plan - Community Development

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>General Capital Fund</u></b>								
1	Hazard Abatement/Demolition Program	225,000	225,000	250,000	250,000	275,000	275,000	\$1,500,000
2	Strategic Housing Initiatives Program	1,160,200	863,400	620,000	908,100	650,000	980,500	\$5,182,200
3	Downtown Housing Development	615,000	680,000	689,000	685,000	650,000	650,000	\$3,969,000
4	Citirama	800,000		800,000		800,000		\$2,400,000
6	NBD Public Improvements	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	\$6,000,000
7	SPUR	243,000	260,000	100,000	400,000	250,000	250,000	\$1,503,000
8	Community Development Focus District	300,000	350,000	300,000	300,000	300,000	300,000	\$1,850,000
9	Commercial & Industrial Public Imprvts	400,000	400,000	400,000	400,000	400,000	400,000	\$2,400,000
10	Tax Incentive/Enterprize Zone	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
11	NBD Property Holding	10,000	18,000	22,000	25,000	25,000	25,000	\$125,000
5	Neighborhood Market Rate Housing		1,000,000	750,000	1,000,000	655,100	1,000,000	\$4,405,100
General Capital Total:		4,853,200	4,896,400	5,031,000	5,068,100	5,105,100	4,980,500	\$29,934,300
Department of Community Development Total:		4,853,200	4,896,400	5,031,000	5,068,100	5,105,100	4,980,500	\$29,934,300

**General Capital Fund**

**Hazard Abatement/Demolition Program**

**Dept. Priority:** 1

**Description:** This project would provide funding for the demolition of unsafe and public nuisance buildings and is targeted for areas where Community Development Block Grant (CDBG) funding is impractical, usually in commercial or historical districts.

**Purpose:** The purpose of this project is to address public safety concerns of existing structures and to reduce the number of unsafe and blighted buildings in the City.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		225,000	225,000	250,000	250,000	275,000	275,000	\$1,500,000
Total	178,800	225,000	225,000	250,000	250,000	275,000	275,000	\$1,500,000
Estimated Personnel Cost								\$0

**Strategic Housing Initiatives Program**

**Dept. Priority:** 2

**Description:** This project would fund the Strategic Housing Initiatives Program (SHIP), which provides for strategic investments in housing projects throughout the City's neighborhoods, with a primary emphasis on homeownership opportunities. The program will support rehabilitation or new construction of units for homeownership and maintenance of property during the pre-development phase.

**Purpose:** The purpose of this project is to support the Strategic Housing Initiatives Program (SHIP), which will provide funding for housing projects with an emphasis on homeownership.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		1,010,200	753,400	540,000	790,100	565,000	855,500	\$4,514,200
Other		150,000	110,000	80,000	118,000	85,000	125,000	\$668,000
Total	750,000	1,160,200	863,400	620,000	908,100	650,000	980,500	\$5,182,200
Estimated Personnel Cost		116,000	86,000	62,000	90,000	65,000	98,000	\$517,000

**Downtown Housing Development**

**Dept. Priority:** 3

**Description:** This project would provide funding to support housing development in the downtown area.

**Purpose:** The purpose of this project is to increase the number of residential units in the downtown area to provide a greater number of housing choices within the City. The project would also improve the physical environment of the downtown area by rehabilitating and developing vacant and underutilized buildings/sites. New downtown residents would grow the market base for retail/commercial activities in downtown Cincinnati, which would ultimately increase the City's income tax revenue.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		555,000	612,000	620,000	617,000	585,000	585,000	\$3,574,000
Other		60,000	68,000	69,000	68,000	65,000	65,000	\$395,000
Total	993,000	615,000	680,000	689,000	685,000	650,000	650,000	\$3,969,000
Estimated Personnel Cost		60,000	68,000	69,000	68,000	65,000	65,000	\$395,000

**Citirama**

**Dept. Priority:** 4

**Description:** This project would provide funding for new market rate homes over a six-year period. Resources would be used for site and public improvements incidental to new housing construction at future Citirama development sites. Citirama is a joint development partnership between the City and the Homebuilders Association of Greater Cincinnati.

**Purpose:** The purpose of this project is to demonstrate the viability and desirability of developing housing in the City. The project will also increase the level of homeownership in the City, and expand the City's real estate and income tax base.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		40,000		40,000		40,000		\$120,000
Construction		680,000		680,000		680,000		\$2,040,000
Other		80,000		80,000		80,000		\$240,000
Total		800,000		800,000		800,000		\$2,400,000
Estimated Personnel Cost		80,000		80,000		80,000		\$240,000

**NBD Public Improvements**

**Dept. Priority:** 6

**Description:** This project would provide funding for the design and construction of streetscape public improvements and infrastructure improvements in the City's Neighborhood Business Districts. Project funding would also be used for property acquisition for public improvements and additional parking.

**Purpose:** The purpose of this project is to enhance the economic viability of each Neighborhood Business District (NBD) and the communities they serve. This project would also increase employment opportunities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		30,000	30,000	30,000	30,000	30,000	30,000	\$180,000
Construction		870,000	870,000	870,000	870,000	870,000	870,000	\$5,220,000
Other		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Total	1,813,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	\$6,000,000
Estimated Personnel Cost		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000

**SPUR**

**Dept. Priority:** 7

**Description:** This project would provide funding for the Strategic Program for Urban Redevelopment (SPUR) and will facilitate the redevelopment of abandoned, vacant, or underutilized industrial and commercial sites where the expansion or redevelopment may be complicated by environmental contamination. The funds sought will be used to assess property, acquire property, remediate contamination, construct public improvements, and perform predevelopment activities needed to redevelop Brownfield sites. This project aligns with the budget priority motion Go Cincinnati dated June 23, 2008.

**Purpose:** The purpose of this project is to achieve the redevelopment of Brownfield sites.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land		62,500	65,000	25,000	100,000	62,500	62,500	\$377,500
Construction		155,500	169,000	65,000	260,000	162,500	162,500	\$974,500
Other		25,000	26,000	10,000	40,000	25,000	25,000	\$151,000
Total	200,000	243,000	260,000	100,000	400,000	250,000	250,000	\$1,503,000
Estimated Personnel Cost		25,000	26,000	10,000	40,000	25,000	25,000	\$151,000

**Community Development Focus District**

**Dept. Priority:** 8

**Description:** This project would provide funding for projects in neighborhoods that are identified in the City's Consolidated Plan as Strategic Investment Areas. Projects would include development and predevelopment activities, as well as gap financing and public improvements.

**Purpose:** The purpose of this project is to target viable, market-driven economic and mixed use development in neighborhoods that are designated Neighborhood Revitalization Strategy Areas or Community Development Focus Districts. The project will help stabilize those neighborhoods by making funding available for projects that would normally not be eligible for Community Development Block Grant (CDBG) funds.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		300,000	350,000	300,000	300,000	300,000	300,000	\$1,850,000
Total	475,000	300,000	350,000	300,000	300,000	300,000	300,000	\$1,850,000
Estimated Personnel Cost		30,000	35,000	30,000	30,000	30,000	30,000	\$185,000

**Commercial & Industrial Public Imprvts**

**Dept. Priority:** 9

**Description:** This project would provide funding for planning activities and public improvements in accordance with existing and future plans. Public improvements would include any specific infrastructure improvements, development and predevelopment activities to facilitate retention, expansion, and attraction of businesses within commercial and industrial areas of the City. This project aligns with the budget priority motion Go Cincinnati dated June 23, 2008.

**Purpose:** The purpose of this project is to stimulate additional development and to leverage private investment within commercial and industrial areas of the City outside of the Central Business District (CBD).

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		40,000	40,000	40,000	40,000	40,000	40,000	\$240,000
Construction		340,000	340,000	340,000	340,000	340,000	340,000	\$2,040,000
Other		20,000	20,000	20,000	20,000	20,000	20,000	\$120,000
Total	400,000	400,000	400,000	400,000	400,000	400,000	400,000	\$2,400,000
Estimated Personnel Cost		20,000	20,000	20,000	20,000	20,000	20,000	\$120,000

**Tax Incentive/Enterprize Zone**

**Dept. Priority:** 10

**Description:** This project would provide funding to operate the State of Ohio designated Enterprise Zone Program and other State and City tax incentive programs, including outreach and coordination activities with the community and the State. This project would also provide funding for public improvements necessary to support business expansion, renovation, and relocation within an Enterprise Zone. The Urban Enterprise Zone Program is authorized by the Ohio Revised Code and allows cities to offer tax exemptions to businesses that expand, renovate, or occupy facilities located in State Certified distressed sections of the City or Zones.

**Purpose:** The purpose of this project is to encourage businesses to remain, expand, or relocate in the City of Cincinnati.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Total	100,000	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Estimated Personnel Cost		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000

**NBD Property Holding**

**Dept. Priority:** 11

**Description:** This project would provide resources for the rehabilitation and maintenance of City owned property by providing for necessary upkeep of land. The intent of owning this property is to create land banks for future development sites.

**Purpose:** The purpose of this project is to keep City owned property in good condition in order to keep up the standards in the neighborhood where the property is located and to avoid property code violations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land		10,000	18,000	22,000	25,000	25,000	25,000	\$125,000
Total	10,000	10,000	18,000	22,000	25,000	25,000	25,000	\$125,000
Estimated Personnel Cost								\$0

**Neighborhood Market Rate Housing**

**Dept. Priority:** 5

**Description:** This project would provide funding for the development of market-rate housing in Cincinnati neighborhoods. City assistance may take the form of acquisition, site preparation, infrastructure development, and direct assistance for construction or rehabilitation. Project funding would also be available to assist projects that will be recommended in the Strategic Housing Initiatives Program (SHIP).

**Purpose:** The purpose of this project is to increase market-rate housing in City neighborhoods. This program is designed to improve the City's competitive edge in retaining and attracting middle income residents by increasing the supply and variety of available market rate housing.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			870,000	653,000	870,000	570,100	870,000	\$3,833,100
Other			130,000	97,000	130,000	85,000	130,000	\$572,000
Total	701,000		1,000,000	750,000	1,000,000	655,100	1,000,000	\$4,405,100
Estimated Personnel Cost			100,000	75,000	100,000	65,000	100,000	\$440,000

THIS PAGE INTENTIONALLY LEFT BLANK

# ENTERPRISE TECHNOLOGY SOLUTIONS

## Capital Improvement Plan - Enterprise Tech. Solutions

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>General Capital Fund</u></b>								
1	Communications Master Plan	190,000	266,000	350,000	217,200	300,000	145,800	\$1,469,000
2	Data Infrastructure Security	125,000	160,000	180,000	156,100	173,500	100,000	\$894,600
3	Cincinnati Financial System Upgrades	40,000	40,000	40,000	127,000	50,000	40,000	\$337,000
4	CAGIS Infrastructure	147,900	147,900	55,100	55,100	55,100	142,100	\$603,200
5	Electronic Gov't (eGov) Web Enhancement	231,700	180,000	211,200	258,800	250,000	200,000	\$1,331,700
6	800 MHz Radios		20,000		28,300	20,000		\$68,300
8	Active Directory / Server Consolidation						200,000	\$200,000
General Capital Total:		734,600	813,900	836,300	842,500	848,600	827,900	\$4,903,800
<b><u>Telecommunications Services Fund</u></b>								
7	Radio Communications Equipment	30,000	30,000	30,000	30,000	30,000	30,000	\$180,000
Telecommunications Services Total:		30,000	30,000	30,000	30,000	30,000	30,000	\$180,000
Department of Enterprise Tech. Solutions Total:		764,600	843,900	866,300	872,500	878,600	857,900	\$5,083,800

**General Capital Fund**

**Communications Master Plan**

**Dept. Priority:** 1

**Description:** This project would provide funding to update and implement a multi-year strategy for upgrading the City's communications network including, but not limited to, updating the Communications Master Plan, replacing obsolete and unsupported hardware, and upgrading the fiber network facilities to support voice, data, and video.

**Purpose:** The purpose of this project is to continue to address the current issues with the City's Metropolitan Area Network (MAN). The current issues include the following: 1) impending technological obsolescence; 2) known and predicted service bottlenecks; and 3) the lack of capacity for future growth. The project will follow five high level recommendations: 1) upgrade core electronics to support ring and customer traffic by addressing technological obsolescence; 2) upgrade electronics at customer sites to eliminate bottlenecks; 3) construct new fiber facilities where feasible to lower leased line costs; 4) centralize management, planning, and standardization of MAN equipment; and 5) plan for voice over internet protocol (VOIP) communications.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		190,000	266,000	350,000	217,200	300,000	145,800	\$1,469,000
Total	234,000	190,000	266,000	350,000	217,200	300,000	145,800	\$1,469,000
Estimated Personnel Cost								\$0

**Data Infrastructure Security**

**Dept. Priority:** 2

**Description:** This project would provide the funding for the continued development and protection of the City's information, data infrastructure, and information technology assets. Tasks to be completed include to define, measure, and report on the compliance of the City's information assets with the City security policy as well as compliance with external mandates such as HIPPA, LEADS, IRS, and financial information security requirements.

**Purpose:** The purpose of this project is to define, measure, and report on the compliance of the City's information assets with corporate security policies, industry-standard security polices, and government regulations. This compliance is critical in protecting the City's physical and financial resources, legal position, employees, and other tangible assets against an increasing set of security threats. In addition to assuring compliance, this initiative will help facilitate the City's planning and prioritization of security risk in order to maximize the security posture of the City's infrastructure.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		125,000	160,000	180,000	156,100	173,500	100,000	\$894,600
Total	153,500	125,000	160,000	180,000	156,100	173,500	100,000	\$894,600
Estimated Personnel Cost								\$0

**Cincinnati Financial System Upgrades**

**Dept. Priority:** 3

**Description:** This project would provide funding for the continued development of the Cincinnati Financial System (CFS). Project funding could include server replacement and could be used to address audit findings associated with disaster recovery and system backup.

**Purpose:** The purpose of this project is to provide funding for the maintenance of CFS and Executive Information System (EIS) to expand capacity to allow for public access to the systems. Trends in the development of e-government applications for the City require maintenance of the current systems coupled with the ability to expand capacity to handle public access to the systems.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		40,000	40,000	40,000	127,000	50,000	40,000	\$337,000
Total	38,900	40,000	40,000	40,000	127,000	50,000	40,000	\$337,000
Estimated Personnel Cost								\$0

**CAGIS Infrastructure**

**Dept. Priority:** 4

**Description:** This project would provide funding to support and maintain the City's digital database map. The CAGIS Infrastructure Project is a joint effort between the City, Duke Energy, and Hamilton County to provide a common real time Geographical Information System (GIS) which enables efficiencies in GIS data collection, analysis, sharing, and management across the three major enterprises.

**Purpose:** The purpose of this project is to maintain the City's investment in the CAGIS system and to enhance the database by including the scanning of enterprise-wide easement and right-of-way drawings with links to related parcels. This project also continues the implementation of more productive database technologies. This will provide the ability to perform new online analyses of support business processes. Departments will have the ability to perform time sequence environmental and economic analyses on GIS datasets, as well as gain the ability to view easement and right-of-way features on database parcels.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		147,900	147,900	55,100	55,100	55,100	142,100	\$603,200
Total	89,700	147,900	147,900	55,100	55,100	55,100	142,100	\$603,200
Estimated Personnel Cost								\$0

**Electronic Gov't (eGov) Web Enhancement**

**Dept. Priority:** 5

**Description:** This project would provide funding to implement electronic payments/transactions and interactive forms, enhance the City's web sites to reflect the City's new Brand image, upgrade hardware, and enforce information security policies. These enhancements are fundamental to improving service, quality, efficiency, and convenience for citizens, visitors, and businesses. This project will also fund web site improvements to meet the requirements and guidelines set forth by the following organizations: 1) American Disabilities Act (ADA); 2) Digital Signatures; 3) MasterCard Site Data Protection Program, and; 3) the National Automated Clearing House Association (NACHA).

**Purpose:** The purpose of this project is to improve and enhance government responsiveness to citizens by:

- 1) Reduced costs for administration, web content, and infrastructure maintenance
- 2) Use of Internet technology to improve customer satisfaction and interaction
- 3) Consistent web site design, navigation, and update of information.

This project aims to improve citizen's ability to conduct business online while enhancing security. Savings would occur through server and workflow consolidations by reducing duplicate functions.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		231,700	180,000	211,200	258,800	250,000	200,000	\$1,331,700
Total	288,500	231,700	180,000	211,200	258,800	250,000	200,000	\$1,331,700
Estimated Personnel Cost								\$0

**800 MHz Radios**

**Dept. Priority:** 6

**Description:** This project would provide funding for capital improvements to the 800 MHz radio system, which will be in use by all City Departments in need of radio-communications technology. In 2012 funding could also be used to purchase radio testing equipment and to dismantle the obsolete UHF/VHF radio systems.

**Purpose:** The purpose of this project is to provide equipment so that the City's investment in the Citywide Communications System and the Civil Defense siren network can be maintained.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment			20,000		28,300	20,000		\$68,300
Total	40,000		20,000		28,300	20,000		\$68,300
Estimated Personnel Cost								\$0

**Active Directory / Server Consolidation**

**Dept. Priority:** 8

**Description:** This project would provide funding for upgrades to the City's existing Active Directory infrastructure to include: 1) continued installation and implementation of the Active Directory; 2) provision of redundant storage at strategic points on the Metropolitan Area Network (MAN), and 3) the upgrade of existing MAN monitoring equipment.

**Purpose:** The purpose of this project is to provide for the purchase of hardware and software to make the network faster, more reliable, more secure, and in compliance with financial audit recommendations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment							200,000	\$200,000
Total							200,000	\$200,000
Estimated Personnel Cost								\$0

**Telecommunications Services Fund**

**Radio Communications Equipment**

**Dept. Priority:** 7

**Description:** This project would provide funding to replace equipment used by the Radio Services Section to maintain radio communications equipment and the outdoor warning siren network. During 2011 and 2012 funding may also be used to dismantle the UHF/VHF radio system as it gets replaced by the 800 MHz system.

**Purpose:** The purpose of this project is to provide equipment so that the City's investment in the Citywide Communications System and the Civil Defense siren network can be maintained.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		30,000	30,000	30,000	30,000	30,000	30,000	\$180,000
Total	30,000	30,000	30,000	30,000	30,000	30,000	30,000	\$180,000
Estimated Personnel Cost								\$0

## ENTERPRISE SERVICES

## Capital Improvement Plan - ES: Convention Center

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>Convention Center Fund</u></b>								
1	Furniture, Fixtures, and Equipment	43,000		100,000	100,000	100,000	100,000	\$443,000
2	Capital Maintenance	250,000	229,200	40,000	40,000	40,000	40,000	\$639,200
3	Building Equipment	118,800		90,000	90,000	90,000	90,000	\$478,800
4	CFS Upgrade		800					\$800
Convention Center Total:		411,800	230,000	230,000	230,000	230,000	230,000	\$1,561,800
Department of ES: Convention Center Total:		411,800	230,000	230,000	230,000	230,000	230,000	\$1,561,800

**Convention Center Fund**

**Furniture, Fixtures, and Equipment**

**Dept. Priority:** 1

**Description:** This project would provide funding for the purchase of additional and replacement furniture, fixtures, and equipment necessary to provide an appealing venue for conventions and visitors coming to the convention center. Furniture, fixtures, and equipment would include, but not be limited to, meeting room risers, trash receptacles, recycling stations, pre-function furniture, and carpet extractors.

**Purpose:** The purpose of this project is to purchase furniture, fixtures, and equipment necessary to maintain a first class convention center.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		43,000		100,000	100,000	100,000	100,000	\$443,000
Total	35,000	43,000		100,000	100,000	100,000	100,000	\$443,000
Estimated Personnel Cost								\$0

**Capital Maintenance**

**Dept. Priority:** 2

**Description:** This project would provide funding for capital improvements at the convention center including, but not limited to, carpet and tile replacement; repair of water leaks and damage; and repair, replacement and/or upgrade of exhibit, corridor, and kitchen floors.

**Purpose:** The purpose of this project is to provide for the capital maintenance of the newly expanded convention center facility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		250,000	229,200	40,000	40,000	40,000	40,000	\$639,200
Total	225,000	250,000	229,200	40,000	40,000	40,000	40,000	\$639,200
Estimated Personnel Cost								\$0

**Building Equipment**

**Dept. Priority:** 3

**Description:** This project would provide funding for the replacement or repair of major equipment at the convention center including, but not limited to, escalators, HVAC equipment, garage doors, lighting, security cameras and equipment, emergency systems monitoring equipment, electrical circuits, and expansion joint replacement.

**Purpose:** The purpose of this project is to repair or replace equipment at the convention center to maintain the current standard of excellence in providing a top rated convention facility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		118,800		90,000	90,000	90,000	90,000	\$478,800
Total	606,000	118,800		90,000	90,000	90,000	90,000	\$478,800
Estimated Personnel Cost								\$0

## Capital Improvement Plan - ES: Parking Facilities

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>Parking Facilities Fund</u></b>								
1	Structural Maintenance & Repair	536,500	1,243,000	1,894,000	150,500	1,674,500	477,000	\$5,975,500
2	Gateway Garage Capital Improvements	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
3	CFS Upgrade		6,300					\$6,300
Parking Facilities Total:		586,500	1,299,300	1,944,000	200,500	1,724,500	527,000	\$6,281,800
Department of ES: Parking Facilities Total:		586,500	1,299,300	1,944,000	200,500	1,724,500	527,000	\$6,281,800

**Parking Facilities Fund**

**Structural Maintenance & Repair**

**Dept. Priority:** 1

**Description:** This project would provide funding for the labor and materials needed to design and construct improvements to City Parking assets. This project would also provide funding to maintain and repair City Parking assets.

**Purpose:** The purpose of this project is to maintain, repair, and improve City Parking assets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		35,000	243,000	194,000	25,000	174,500	77,000	\$748,500
Construction		501,500	1,000,000	1,700,000	125,500			\$3,327,000
Other						1,500,000	400,000	\$1,900,000
Total	200,000	536,500	1,243,000	1,894,000	150,500	1,674,500	477,000	\$5,975,500
Estimated Personnel Cost								\$0

**Gateway Garage Capital Improvements**

**Dept. Priority:** 2

**Description:** This project would provide funding to comply with the City's agreement with the Kroger Company to allocate \$50,000 annually for capital improvements at the Gateway Garage.

**Purpose:** The purpose of this project is to provide funding for capital improvements to the Gateway Garage.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Total	50,000	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Estimated Personnel Cost								\$0

**CFS Upgrade**

**Dept. Priority:** 3

**Description:** CFS is upgraded every three years to remain up to date on all rules and regulations as well utilizing the enhancements of the newer version. Version 3.10 will address the Federal 3% Withholding regulation and has enhancements for the disbursement function. The user interface will be redesigned with many improvements suggested by users. In addition, version 3.10 supports the Linux operating system which the City could utilize to allow us to consolidate servers and run the Financial System on a shared server farm.

**Purpose:** This project is to upgrade the Cincinnati Financial System to the latest version in 2012, projected to be 3.10. CFS is upgraded about every three years due to the evolution of the software and the lack of support by the vendor for the previous versions. The City last upgraded the software in 2009 and this upgrade will keep the City consistent with the proper version of the software. Expenses include consulting services, staff time and equipment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			6,300					\$6,300
Total			6,300					\$6,300
Estimated Personnel Cost								\$0

## FINANCE

## Capital Improvement Plan - Finance

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Capital Fund</u></b>								
1	AMS-CFS Procurement Software Upgrade	78,000						\$78,000
2	CFS Upgrade		237,400					\$237,400
3	Licensing Software & A/R Collection Sys.		50,000	50,000	44,700			\$144,700
General Capital Total:		78,000	287,400	50,000	44,700	0	0	\$460,100
Department of Finance Total:		78,000	287,400	50,000	44,700	0	0	\$460,100

**General Capital Fund**

**AMS-CFS Procurement Software Upgrade**

**Dept. Priority:** 1

**Description:** This project would provide funding to complete the implementation of the AMS-CFS procurement software upgrade, which would include the addition of bid solicitation and auction capability to the existing system. The entire purchasing component of the CFS upgrade provides a seamless Web based procurement system that is user friendly across the spectrum of purchasing functions -- from the solicitation of the bid to the evaluation and awards process. The system also includes an on-line contract management component, which will require additional service and follow-up during the implementation process.

**Purpose:** The purpose of this project is to enhance the procurement process by improving production, reducing labor costs, and providing more information through a user-friendly application for both Purchasing employees and vendors doing business with the City of Cincinnati.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		78,000						\$78,000
Total	77,700	78,000						\$78,000
Estimated Personnel Cost								\$0

**CFS Upgrade**

**Dept. Priority:** 2

**Description:** This project would upgrade the Cincinnati Financial System to the latest version in 2012, projected to be 3.10. CFS is upgraded about every three years due to the evolution of the software and the lack of support by the vendor for the previous versions. The City last upgraded the software in 2009 and this upgrade will keep the City consistent with the proper version of the software. Expenses include consulting services, staff time and equipment.

**Purpose:** CFS is upgraded every three years to remain up to date on all rules and regulations as well utilizing the enhancements of the newer version. Version 3.10 will address the Federal 3% Withholding regulation and has enhancements for the disbursement function. The user interface will be redesigned with many improvements suggested by users. In addition, version 3.10 supports the Linux operating system which the City could utilize to allow us to consolidate servers and run the Financial System on a shared server farm.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			237,400					\$237,400
Total			237,400					\$237,400
Estimated Personnel Cost			50,000					\$50,000

**Licensing Software & A/R Collection Sys.**

**Dept. Priority:** 3

**Description:** This project would provide funding to implement licensing software and accounts receivable collection systems. This project would tie in the receiving and licensing processes with back-end financial systems and databases. In addition, less manual data entry would be necessary.

**Purpose:** This purpose of this project is to allow for the licensing process to be automated, to allow for the scanning of existing documents to create a complete licensing database, and to improve the collection of the City's accounts receivable. Service levels and the efficiency of collections would thereby be improved.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			50,000	50,000	44,700			\$144,700
Total			50,000	50,000	44,700			\$144,700
Estimated Personnel Cost								\$0

FIRE

## Capital Improvement Plan - Fire

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Capital Fund</u></b>								
2	Fire Clothing Replacement	228,300	152,100					\$380,400
4	Defibrillator - Replacement	138,600						\$138,600
3	Apparatus Door Closers		145,000					\$145,000
7	Air Compressor Replacement		98,800					\$98,800
6	Hand Held Computer Based System			417,700	303,800			\$721,500
9	Appliances For Existing Firehouses				62,200	62,100		\$124,300
General Capital Total:		366,900	395,900	417,700	366,000	62,100	0	\$1,608,600
Department of Fire Total:		366,900	395,900	417,700	366,000	62,100	0	\$1,608,600

**General Capital Fund**

**Fire Clothing Replacement**

**Dept. Priority:** 2

**Description:** This project would provide for the purchase of personal protective equipment (PPE) to protect firefighters while firefighting. A set of PPE consists of a fire resistant coat and a pair of fire resistant pants.

**Purpose:** The purpose of this project is to ensure firefighter safety and to allow the Department of Fire to comply with its labor contract with International Association of Fire Fighters (IAFF) Local 48, which requires that the City provides each firefighter with two (2) sets of PPE. This project will also allow the Department of Fire to attempt to meet National Fire Protection Association (NFPA) Standard 1851, which recommends that no firefighters have gear that exceeds ten (10) years of age beyond the manufacture date for any reserve gear and that frontline fire protective clothing does not exceed five (5) years of age beyond the manufacture date.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		228,300	152,100					\$380,400
Total		228,300	152,100					\$380,400
Estimated Personnel Cost								\$0

**Defibrillator - Replacement**

**Dept. Priority:** 4

**Description:** This project would provide funding for the replacement of 12-lead monitors and automatic external defibrillators (AEDs), which are used by paramedics to provide a three dimensional view of the heart and to transmit this view to the receiving emergency room physicians. The AEDs also have the capability to monitor carbon monoxide levels in the blood stream, which will greatly improve patient care and allow the department to closely monitor firefighters at a fire scene.

**Purpose:** The purpose of this project is to enhance the medical services provided by the Department of Fire and also to better ensure firefighter safety at fire scenes.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		138,600						\$138,600
Total	69,300	138,600						\$138,600
Estimated Personnel Cost								\$0

**Apparatus Door Closers**

**Dept. Priority:** 3

**Description:** This project would provide funding for the purchase of apparatus garage door closers for all garage doors throughout the Department of Fire. The apparatus garage door closers will allow for the automatic retraction of garage doors in the event that a person or object is obstructing the doorway.

**Purpose:** The purpose of this project is to reduce the City's liability and maintain firehouse security. The current closures are not equipped for automatic retraction in the event that a person or object is obstructing the path. The updated closures will monitor the presence of an apparatus and will time the closing of the garage door to eliminate possible accidental/premature closure. In addition, the updated closures will allow the door to stop and/or reverse, if necessary. Lastly, the new door closure will ensure proper closure, thereby enhancing the security of the firehouses.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment			145,000					\$145,000
Total			145,000					\$145,000
Estimated Personnel Cost								\$0

**Air Compressor Replacement**

**Dept. Priority:** 7

**Description:** This project would provide funding for rehabilitation or replacement of existing air compressor systems. These systems are strategically placed at various fire companies for efficiently refilling the self-contained breathing apparatuses (SCBAs) used by firefighters.

**Purpose:** The purpose of this project is to add and rehabilitate air compressor systems, which will maintain a higher quality of safe breathing air for firefighters. The self-contained breathing apparatuses (SCBAs) that these compressors refill are used in fires as well as other hazardous situations that a firefighter faces. New compressors ensure that the air supply for firefighters during hazardous instances is safe and is in compliance with State and Federal regulations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment			98,800					\$98,800
Total			98,800					\$98,800
Estimated Personnel Cost								\$0

**Hand Held Computer Based System**

**Dept. Priority:** 6

**Description:** This project would provide funding for the replacement of the General Mobilized Data Collection devices (hand held computer system) originally purchased with capital funds in 2000 and replaced with funds from an Urban Area Strategic Initiative (UASI) grant in 2006. This project includes hardware, software, setup, configuration and training.

**Purpose:** The purpose of this project is to enhance the data collection related to emergency medical services (EMS) transports. The hand held devices are also utilized for incidents related to Weapons of Mass Destruction (WMD) and hazardous materials (HAZ). This project would provide for the replacement, installation, setup and system training of existing EMS/WMD/HAZ handheld computer units that have reached the end of their useful life. This project includes the purchase, upgrade, installation and system training of all hardware/software systems used with the devices. The system upgrade will ensure that the Department of Fire continues reporting state mandated information, water sentinel Environmental Protection Agency/Greater Cincinnati Water Works data analysis, and data to billing agencies for City reimbursement.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment				417,700	303,800			\$721,500
Total				417,700	303,800			\$721,500
Estimated Personnel Cost								\$0

**Appliances For Existing Firehouses**

**Dept. Priority:** 9

**Description:** This project would provide funding for the replacement of aging appliances in the City's firehouses and establish a replacement cycle. The project would also include the installation of additional cooking hoods with fire suppression systems in those firehouses that do not meet current building codes.

**Purpose:** The purpose of this project is to reduce the Department of Fire's appliance repair costs, reduce the department's energy consumption by installing more efficient appliances, and upgrade the living conditions of the firefighters. By installing appliances that are properly sized, the department plans to reduce the number of appliances operated at each location.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment					62,200	62,100		\$124,300
Total					62,200	62,100		\$124,300
Estimated Personnel Cost								\$0

THIS PAGE INTENTIONALLY LEFT BLANK

# HEALTH

## Capital Improvement Plan - Health

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Capital Fund</u></b>								
1	Dental Equipment Replacement	90,000	90,000					\$180,000
2	Facilities Renovation & Repairs	238,300	273,700	373,700	376,500	379,300	370,000	\$2,011,500
General Capital Total:		328,300	363,700	373,700	376,500	379,300	370,000	\$2,191,500
Department of Health Total:		328,300	363,700	373,700	376,500	379,300	370,000	\$2,191,500

**General Capital Fund**

**Dental Equipment Replacement**

**Dept. Priority:** 1

**Description:** This project would provide funding for the replacement of dental equipment at the Crest Smile Shoppe in 2011 and the Northside Health Center in 2012. The equipment includes a digital panoramic X-ray machine, Computed Digital Radiography, Computed Digital Radiography elite sensors, a Computer Digital Radiography elite remote module, Computed Digital Radiography elite starter kits, and a universal sensor holster. This project would include on-site training for the equipment.

**Purpose:** The purpose of this project is to provide newer, more effective equipment to better serve our patients at the Crest Smile Shoppe and the Northside Health Center. In addition, digital equipment is necessary in order to make the transition to electronic medical records.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		90,000	90,000					\$180,000
Total		90,000	90,000					\$180,000
Estimated Personnel Cost								\$0

**Facilities Renovation & Repairs**

**Dept. Priority:** 2

**Description:** This project would provide funding for major repairs at various Primary Health Care Clinic sites and other Health Department facilities. The projects considered in 2011 for funding include: 1) replacing heat pumps at the Elm Street Health Center; and 2) sealing and patching the black top parking lots at various health facilities. The projects considered for 2012 include: 1) replacing additional heat pumps in the Elm Street Health Center; and 2) replacing two boilers at the Elm Street Health Center.

**Purpose:** The purpose of this project is to protect and extend the life of the respective Primary Health Care Clinic sites and various Health Department facilities. The needed renovations will maintain compliance with clinic facility accreditation standards, as well as present a more visually appealing facility for customers.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		238,300	273,700	373,700	376,500	379,300	370,000	\$2,011,500
Total	279,500	238,300	273,700	373,700	376,500	379,300	370,000	\$2,011,500
Estimated Personnel Cost								\$0

LAW

## Capital Improvement Plan - Law

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Capital Fund</u></b>								
1	Document Management System	90,000						\$90,000
General Capital Total:		90,000	0	0	0	0	0	\$90,000
Department of Law Total:		90,000	0	0	0	0	0	\$90,000

**General Capital Fund**

**Document Management System**

**Dept. Priority:** 1

**Description:** This project will provide funding to purchase a legal document management system that will provide the Law Department the ability to prioritize and enhance the organization of its documents. It will be a repository of all cases and provide quick access to case details and caseloads.

**Purpose:** The purpose of this project is to improve efficiencies in the Law Department by providing quick access to current information in legal documents.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		90,000						\$90,000
Total		90,000						\$90,000
Estimated Personnel Cost								\$0

## PARKS

## Capital Improvement Plan - Parks

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Capital Fund</u></b>								
1	Park Infrastructure Rehabilitation	2,655,800	2,831,800	2,909,600	2,931,100	2,952,500	2,880,400	\$17,161,200
2	Cincinnati Riverfront Park	4,000,000	2,000,000					\$6,000,000
6	Yeatman's Cove Upper Walkway	1,000,000						\$1,000,000
General Capital Total:		7,655,800	4,831,800	2,909,600	2,931,100	2,952,500	2,880,400	\$24,161,200
Department of Parks Total:		7,655,800	4,831,800	2,909,600	2,931,100	2,952,500	2,880,400	\$24,161,200

**General Capital Fund**

**Park Infrastructure Rehabilitation**

**Dept. Priority:** 1

**Description:** This project would provide funding for general upgrades (electrical, HVAC, lighting, and plumbing) at Park facilities, as well as infrastructure improvements to roadways, walks, retaining walls, and other structures. Renovation of deteriorated or out-of-code structures would also be included.

**Purpose:** The purpose of this project is to provide for the renovation of basic infrastructures in the city's parks. It also provides resources to upgrade facilities to remain in compliance with codes and regulations. Projects are designed to complete American Disability Act compliance projects, and to retrofit utilities to improve efficiency to provide a clean, safe, reliable, green, and beautiful park system.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		531,200	566,400	581,900	586,200	590,500	576,000	\$3,432,200
Construction		2,124,600	2,265,400	2,327,700	2,344,900	2,362,000	2,304,400	\$13,729,000
Total	3,053,000	2,655,800	2,831,800	2,909,600	2,931,100	2,952,500	2,880,400	\$17,161,200
Estimated Personnel Cost		580,000	600,000	600,000	600,000	600,000	600,000	\$3,580,000

**Cincinnati Riverfront Park**

**Dept. Priority:** 2

**Description:** This project would provide funding for the Cincinnati Riverfront Park. The new park will create a new regional park on the Cincinnati Riverfront, connecting the stadiums, the Underground Railroad Freedom Center, and the Banks development. The Park will cost approximately \$120 million and will be funded from Federal, State, Local, and private donors over the next 8-10 years. The 40 acre park will provide citizens with a place of respite, reflection, and will provide many unique features such as fountains, play areas, floral gardens, family size swings, and a venue for concerts, festivals and events.

**Purpose:** The purpose of this project is to stabilize the Ohio River's banks to prevent further erosion and provide for flood mitigation, as well as provide a new world class park that will become the city's 53rd neighborhood and be recognized as the city's front yard. The park will become the home of all the city's major events and festivals and will generate tremendous economic development for the region, which translates into increased revenues for the city and the region.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		800,000	400,000					\$1,200,000
Construction		3,200,000	1,600,000					\$4,800,000
Total	4,000,000	4,000,000	2,000,000					\$6,000,000
Estimated Personnel Cost		200,000	200,000					\$400,000

**Yeatman's Cove Upper Walkway**

**Dept. Priority:** 6

**Description:** This project would provide funding for the replacement of the upper walkway at Yeatman's Cove. The walkway has deteriorated to a point where there are numerous trip hazards, and public safety has become a concern. New exposed aggregate concrete is to be installed along with expansion and control joints to allow for movement. The new concrete surface also would be able to handle vehicle traffic that is necessary for events held at the park.

**Purpose:** The purpose of this project is to replace the deteriorated upper walkway at Yeatman's Cove so that it is safe and usable.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		100,000						\$100,000
Construction		750,000						\$750,000
Equipment		100,000						\$100,000
Other		50,000						\$50,000
Total		1,000,000						\$1,000,000
Estimated Personnel Cost								\$0

## PLANNING AND BUILDINGS

## Capital Improvement Plan - Planning & Buildings

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Capital Fund</u></b>								
1	Neighborhood Studies	80,600	89,200	91,600	92,200	92,800	90,800	\$537,200
5	Permit Center IT Replacement & Upgrade	37,200						\$37,200
General Capital Total:		117,800	89,200	91,600	92,200	92,800	90,800	\$574,400
Department of Planning & Buildings Total:		117,800	89,200	91,600	92,200	92,800	90,800	\$574,400

**General Capital Fund**

**Neighborhood Studies**

**Dept. Priority:** 1

**Description:** This project would provide funding to prepare neighborhood requests for plans which will lead to actual capital investments and to respond to Council referred planning studies and projects. These plans and studies may include, but are not limited to, the Streetcar and Transit Oriented Study and Casino Area Planning.

**Purpose:** The purpose of this project is to allow the Department of Planning and Buildings to respond to both immediate neighborhood planning needs as it relates to upcoming capital investments by the City and to respond to requests made by City Council.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		80,600	89,200	91,600	92,200	92,800	90,800	\$537,200
Total		80,600	89,200	91,600	92,200	92,800	90,800	\$537,200
Estimated Personnel Cost								\$0

**Permit Center IT Replacement & Upgrade**

**Dept. Priority:** 5

**Description:** This project would provide funding to replace equipment in the Customer Service area of the Permit Center including, but not limited to, upgrading the conference room to wireless and replacing outdated computer equipment used for hearing presentations.

**Purpose:** The purpose of this project is to replace Permit Center Customer Service computer equipment that is currently out of life cycle.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		37,200						\$37,200
Total		37,200						\$37,200
Estimated Personnel Cost								\$0

## PUBLIC SERVICES

## Capital Improvement Plan - Public Services

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Capital Fund</u></b>								
1	I-75 Expansion/Public Services Relocate	1,000,000	2,500,000					\$3,500,000
2	Fleet Replacements	4,301,900	4,746,200	4,904,400	4,940,600	4,976,700	4,855,200	\$28,725,000
3	City Facility Renovation and Repairs	2,234,000	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000	\$13,234,000
4	Replacement Facilities	1,048,600	1,338,400	1,473,500	1,458,300	1,493,100	1,376,100	\$8,188,000
5	Trash Receptacles	150,000	150,000	150,000	150,000	150,000	150,000	\$900,000
6	Sign Replacement	200,000	358,400	550,100	712,600	1,117,900	1,039,500	\$3,978,500
7	Community Facility Improvements	600,000	600,000	600,000	600,000	600,000	600,000	\$3,600,000
8	NURFC Permanent Exhibit	300,000						\$300,000
9	District Two Garage Repair	50,000						\$50,000
10	Findlay Market Improvements	100,600	108,800	100,000	100,000	100,000	100,000	\$609,400
General Capital Total:		9,985,100	12,001,800	9,978,000	10,161,500	10,637,700	10,320,800	\$63,084,900
Department of Public Services Total:		9,985,100	12,001,800	9,978,000	10,161,500	10,637,700	10,320,800	\$63,084,900

**General Capital Fund**

**I-75 Expansion/Public Services Relocate**

**Dept. Priority:** 1

**Description:** In April 2010, ODOT began I-75 Mill Creek Expressway Phase 2 Improvement Project. This phase required the removal of the Monmouth Street overpass and pedestrian bridge. It will also require the destruction of the building located at 3241 Cormany Street and will necessitate the relocation of all functions performed at this site. This building houses Public Services Administration offices and the Traffic and Road Operations storeroom. This capital project will provide funding for construction of a new facility for the Public Services Administration Offices and the Traffic and Road Operations storeroom and the installation of a new ramp for the salt dome. This project must be funded in 2012 to allow for completion of this work prior to the demolition of the Cormany building.

**Purpose:** The purpose of this project is to implement a plan to relocate and reorganize various functions within Public Services Department which will be severely impacted by the Interstate 75 expansion by Ohio Department of Transportation.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		1,000,000	2,500,000					\$3,500,000
Total		1,000,000	2,500,000					\$3,500,000
Estimated Personnel Cost			175,000					\$175,000

**Fleet Replacements**

**Dept. Priority:** 2

**Description:** This project will provide funding for the purchase of automotive and motorized equipment for City agencies supported by the General Fund. The approximate allocation of funding for equipment in 2011 is as follows: the Police Department (\$565,015), the Fire Department (\$1,142,430), the Parks Department (\$380,810), the Recreation Department (\$342,729), the Public Services Department (\$1,142,430), and the Department of Transportation and Engineering (\$228,486). The placing in service cost is \$500,000.

**Purpose:** The purpose of this project is to provide the City's General Fund agencies with motorized equipment and an efficient automotive fleet that performs at the lowest possible operating and maintenance cost.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		4,301,900	4,746,200	4,904,400	4,940,600	4,976,700	4,855,200	\$28,725,000
Total	4,934,600	4,301,900	4,746,200	4,904,400	4,940,600	4,976,700	4,855,200	\$28,725,000
Estimated Personnel Cost								\$0

**City Facility Renovation and Repairs**

**Dept. Priority:** 3

**Description:** This project would provide funding to continue repairs and upgrades to City facilities. Upgrades and improvements include, but are not limited to, window replacement, tuck pointing, structural repairs, restroom upgrades, female facilities renovations, office reorganizations, HVAC improvements, generator installations roof replacements, electrical improvements, and site work. Design work, consultant fees, and related staff time would be included as well. Subprojects for this project for 2011 include: door replacement for the Fleet Services Building; garage improvements for the Cormany Garage; mechanical upgrades for the Cathage Fire Station (2), the Corryville Fire Station (19) and the Lower Price Hill Fire Station (17); apparatus bay structural improvements for the West Price Hill Fire Station (24); plaster repair at City Hall; and mechanical upgrades for the West Fork Garage. The subprojects for this project in 2012 include: fence and parking lot repairs for Police District 1; roof replacement for the Northside Fire Station (20) and the Lower Price Hill Fire Station (17); fire alarm improvements for Police District 4; mechanical upgrades for Police District 2, Police District 3, and Police District 4; and parking lot repaving at the West Fork Garage.

**Purpose:** The purpose of this project is to continue repairs and upgrades to City facilities. The Division of City Facility Management of the Department of Public Services maintains and upgrades facilities for current and future operations. A running list of improvements is used to maintain services directly and indirectly supported by these facilities. Renovations will modernize facilities to extend their useful lives for the next 20 years or until a replacement facility can be designed and built.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		250,000	250,000	250,000	250,000	250,000	250,000	\$1,500,000
Construction		1,984,000	1,950,000	1,950,000	1,950,000	1,950,000	1,950,000	\$11,734,000
Total	2,580,300	2,234,000	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000	\$13,234,000
Estimated Personnel Cost		110,000	110,000	110,000	110,000	110,000	110,000	\$660,000

**Replacement Facilities**

**Dept. Priority:** 4

**Description:** This project would provide funding for the construction of replacement facilities for the Fire and Police Departments.

**Purpose:** The purpose of this project is to construct replacement facilities for the Fire and Police Departments. The Division of City Facility Management of the Department of Public Services has completed an initial asset management review of General Fund facilities and has identified that 40% are inadequate to meet the service demands of City agencies in operation today. The majority of facilities pre-date World War II and the cost of renovations to meet functional requirements of today's services outweighs the replacement cost for new facilities. The Fire and Police Departments are actively involved in planning for the replacement of facilities to enhance their service delivery to citizens. The subprojects for this project is the construction expenses related to the Pleasant Ridge Fire Station (8) and engineering, land acquisition, and construction expenses for either the Westwood Fire Station (35) or the Madisonville Fire Station (49).

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		400,000	50,000			433,300		\$883,300
Land			241,200			515,400		\$756,600
Construction		648,600	947,200	1,373,500	1,358,300	494,400	1,326,100	\$6,148,100
Equipment			100,000	100,000	100,000	50,000	50,000	\$400,000
Total	1,947,900	1,048,600	1,338,400	1,473,500	1,458,300	1,493,100	1,376,100	\$8,188,000
Estimated Personnel Cost		59,960	82,360	88,675	90,415	92,155	86,305	\$499,870

**Trash Receptacles**

**Dept. Priority:** 5

**Description:** This project would provide funding for the purchase of approximately 250 new trash receptacles in 2011, with an expected life span of approximately ten years, thereby continuing the replacement of old trash receptacles that have reached their life cycle. The Department of Public Services would continue replacing the trash receptacles near the main thoroughfares, in Neighborhood Business Districts (NBDs), and in the neighborhoods. Neighborhood trash receptacles would be placed in residential areas with high litter presence such as at bus stops, congested areas, and eateries.

**Purpose:** The purpose of this project is to continue the replacement of worn and damaged receptacles as well as accommodate as-needed requests by communities. The new trash receptacles would minimize or prevent litter accumulation in areas of high visibility near the Central Business District (CBD) and near Neighborhood Business Districts(NBDs). The new trash receptacles would replace the old trash receptacles that have met their expected life cycle that are unattractive, and require ongoing maintenance.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		150,000	150,000	150,000	150,000	150,000	150,000	\$900,000
Total	150,000	150,000	150,000	150,000	150,000	150,000	150,000	\$900,000
Estimated Personnel Cost								\$0

**Sign Replacement**

**Dept. Priority:** 6

**Description:** This project would provide funding for the sign program implementation that will result in the replacement or new installation of 6,200 traffic signs annually. This project will complete a sign inventory database, avoid pole attachment fees, decrease the response time for traffic control sign service requests, improve the sign condition from unacceptable to excellent, and reduce the potential for City liability that could result from worn or faded signs.

**Purpose:** The purpose of this project is to maintain the reflective integrity of all traffic control signs, and replace signs on a scheduled basis. The project will take advantage of newer and longer lasting reflective materials, improve the condition of signs citywide, and reduce the City's liability associated with accidents caused by worn and faded signs. In addition, the project will also begin to address the mandated changes in Federal and State requirements for sign reflectivity by the National Committee on Uniform Traffic Control Devices. These standards may be used by the courts as a way of determining if signs had sufficient reflectivity to be seen by motorists involved in traffic accidents.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		70,000	125,400	192,500	249,400	391,300	363,800	\$1,392,400
Construction		130,000	233,000	357,600	463,200	726,600	675,700	\$2,586,100
Total	208,700	200,000	358,400	550,100	712,600	1,117,900	1,039,500	\$3,978,500
Estimated Personnel Cost								\$0

**Community Facility Improvements**

**Dept. Priority:** 7

**Description:** This project would provide funding for roof replacement at Music Hall, kalwall system replacement that includes replacement of existing moisture vapor barriers and sunlight diffusion system at the Cincinnati Art Museum, and renovation and repair design work at the Museum Center.

**Purpose:** The purpose of this project is to provide resources for upgrades and enhancements at the Museum Center, Cincinnati Art Museum, and Music Hall. These facilities are owned by the City of Cincinnati and operated by non-profit associations. The City assists in the continual improvement of these historic facilities to ensure their use for future generations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		600,000	600,000	600,000	600,000	600,000	600,000	\$3,600,000
Total	600,000	600,000	600,000	600,000	600,000	600,000	600,000	\$3,600,000
Estimated Personnel Cost		30,000	30,000	30,000	30,000	30,000	30,000	\$180,000

**NURFC Permanent Exhibit**

**Dept. Priority:** 8

**Description:** Funding for this project will provide resources for the demolition and reconfiguration of a section of the National Underground Railroad Freedom Center to accommodate a new permanent exhibit at the center titled "Invisible."

**Purpose:** The purpose of this project is to provide resources for the construction of a new permanent exhibit at the National Underground Railroad Freedom Center to provide enhanced educational opportunities for Cincinnati residents and visitors.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		300,000						\$300,000
Total		300,000						\$300,000
Estimated Personnel Cost								\$0

**District Two Garage Repair**

**Dept. Priority:** 9

**Description:** This project would provide funding to repair the garage at the District 2 facility, which will also require the demolition and replacement of the facility's parking lot.

**Purpose:** The purpose of this project is to enhance the safety of the District 2 facility's garage and the related parking lot and also ensure that the garage structure remains viable into the future.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		50,000						\$50,000
Total		50,000						\$50,000
Estimated Personnel Cost								\$0

**Findlay Market Improvements**

**Dept. Priority:** 10

**Description:** This project would provide funding for improvements to City-owned facilities at Findlay Market. In March 2006, the Division of City Facility Management of the Department of Public Services conducted an assessment of ongoing capital needs for the Findlay Market facility. This project would implement the recommendations of this assessment, making improvements to maintain the structural integrity of the North Addition buildings. This project would also improve building systems, as well as improve pedestrian safety around the Findlay Market area.

**Purpose:** The purpose of this project is to improve the structural integrity of Findlay Market's "North Addition," as well as upgrade the plumbing, mechanical, and other building systems of the facilities. In addition, this project is for improvements to pedestrian safety around the Market and for replacement of other equipment located in the Market House.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		100,600	108,800	100,000	100,000	100,000	100,000	\$609,400
Total		100,600	108,800	100,000	100,000	100,000	100,000	\$609,400
Estimated Personnel Cost								\$0

THIS PAGE INTENTIONALLY LEFT BLANK

# RECREATION

## Capital Improvement Plan - Recreation

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>General Capital Fund</u></b>								
1	Recreation Facilities Renovation	1,850,000	1,355,500	1,593,300	910,200	1,900,900	1,410,200	\$9,020,100
2	Aquatics Facilities Renovation	1,650,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	\$11,650,000
3	Athletics Facilities Renovation	287,000	721,500	541,900	750,000	514,300	700,000	\$3,514,700
4	Compliance with ADA	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
5	Outdoor Facilities Renovation	473,200	533,200	475,000	950,000	195,000	500,000	\$3,126,400
General Capital Total:		4,360,200	4,710,200	4,710,200	4,710,200	4,710,200	4,710,200	\$27,911,200
Department of Recreation Total:		4,360,200	4,710,200	4,710,200	4,710,200	4,710,200	4,710,200	\$27,911,200

**General Capital Fund**

**Recreation Facilities Renovation**

**Dept. Priority:** 1

**Description:** This project would provide funding for continued renovations of the Recreation Department's facilities throughout the City. Renovations would include roof replacements, installation of new heating, ventilating, and air conditioning (HVAC) systems; improvements/renovations to the exterior of facilities; replacement of doors and windows; mechanical system improvements; upgrade of fire protection and security systems; and renovations of exterior softscapes and hardscapes.

**Purpose:** The purpose of this project is to upgrade Recreation Department facilities across the City in order to extend the useful life of the department's physical assets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		185,000	135,500	159,300	91,000	190,100	141,000	\$901,900
Construction		1,387,500	1,016,700	1,195,000	682,700	1,425,700	1,057,700	\$6,765,300
Equipment		185,000	135,500	159,300	91,000	190,100	141,000	\$901,900
Other		92,500	67,800	79,700	45,500	95,000	70,500	\$451,000
<b>Total</b>	<b>1,635,000</b>	<b>1,850,000</b>	<b>1,355,500</b>	<b>1,593,300</b>	<b>910,200</b>	<b>1,900,900</b>	<b>1,410,200</b>	<b>\$9,020,100</b>
Estimated Personnel Cost		115,000	115,000	115,000	115,000	115,000	115,000	\$690,000

**Aquatics Facilities Renovation**

**Dept. Priority:** 2

**Description:** This project would provide funding for the continued renovation of the Recreation Department's aquatic facilities, including renovations and replacements of existing pools. This project will include system renovations, upgrades to pool mechanical systems, adding new structures, and updating pool buildings. This project will also include pool consolidation based on the Cincinnati Recreation Commission's aquatic plan.

**Purpose:** The purpose of this project is to upgrade aquatics facilities that must be renovated to remain functional and compliant with City and State regulations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		165,000	200,000	200,000	200,000	200,000	200,000	\$1,165,000
Construction		1,237,500	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	\$8,737,500
Equipment		165,000	200,000	200,000	200,000	200,000	200,000	\$1,165,000
Other		82,500	100,000	100,000	100,000	100,000	100,000	\$582,500
<b>Total</b>	<b>3,600,000</b>	<b>1,650,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>\$11,650,000</b>
Estimated Personnel Cost		165,000	200,000	200,000	200,000	200,000	200,000	\$1,165,000

**Athletics Facilities Renovation**

**Dept. Priority:** 3

**Description:** This project would provide funding for the continued renovation of tennis courts, ball fields, soccer fields, football fields, hard surface play areas, bike trails, and outdoor basketball facilities. Work will include, but not be limited to, resurfacing, regrading, infield renovation, turf renovations, the clear-coating of gym floors, fencing installations or renovations, drainage improvements, site amenities, and renovations. Community requests/partnerships and emergency projects are also included.

**Purpose:** The purpose of this project is to renovate and upgrade recreation athletic facilities to keep them safe and usable and to improve the appearance of these facilities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		28,700	72,200	54,200	75,000	51,400	70,000	\$351,500
Construction		215,300	541,100	406,400	562,500	385,800	525,000	\$2,636,100
Equipment		28,700	72,200	54,200	75,000	51,400	70,000	\$351,500
Other		14,300	36,000	27,100	37,500	25,700	35,000	\$175,600
<b>Total</b>	<b>517,300</b>	<b>287,000</b>	<b>721,500</b>	<b>541,900</b>	<b>750,000</b>	<b>514,300</b>	<b>700,000</b>	<b>\$3,514,700</b>
Estimated Personnel Cost		25,000	40,000	30,000	45,000	30,000	40,000	\$210,000

**Compliance with ADA**

**Dept. Priority:** 4

**Description:** This project would provide funding to improve accessibility to all recreation facilities including buildings, playgrounds, and sports fields. Improvements will be made to elevators, ramps, exterior and interior doors, accessible routes, restroom facilities, drinking fountains, telephones, and parking area renovations including passenger loading zones.

**Purpose:** The purpose of this project is to remain in compliance with the provisions of the Americans with Disabilities Act in order to improve the usability of Recreation facilities for persons with disabilities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		10,000	10,000	10,000	10,000	10,000	10,000	\$60,000
Construction		75,000	75,000	75,000	75,000	75,000	75,000	\$450,000
Equipment		10,000	10,000	10,000	10,000	10,000	10,000	\$60,000
Other		5,000	5,000	5,000	5,000	5,000	5,000	\$30,000
<b>Total</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>\$600,000</b>
Estimated Personnel Cost								\$0

**Outdoor Facilities Renovation**

**Dept. Priority:** 5

**Description:** This project would provide funding for the continued renovation of the Recreation Department's outdoor facilities, including playgrounds, play equipment, play surfaces, shelters, roadways, parking lots, and hike/bike trails. This project will include renovating various playgrounds and parking lots throughout the City. Community requests/partnerships and emergency projects will also be included.

**Purpose:** The purpose of this project is to upgrade outdoor recreational facilities that must be renovated to remain functional and compliant with City and State regulations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		47,300	53,300	47,500	95,000	19,500	50,000	\$312,600
Construction		354,900	399,900	356,300	712,500	146,200	375,000	\$2,344,800
Equipment		47,300	53,300	47,500	95,000	19,500	50,000	\$312,600
Other		23,700	26,700	23,700	47,500	9,800	25,000	\$156,400
Total	433,400	473,200	533,200	475,000	950,000	195,000	500,000	\$3,126,400
Estimated Personnel Cost		47,300	53,300	47,500	95,000	19,500	50,000	\$312,600

## SEWERS

# Capital Improvement Plan - Sewers

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>Stormwater Management Fund</u></b>								
1	Barrier Dam Facility Repairs	100,000	100,000	200,000	100,000	100,000	100,000	\$700,000
2	Guerley Rd. Outlet to Sunset Drain Imp.	874,000						\$874,000
3	3674 Hillside Ave. Stormwtr. Intake Imp.	270,000	230,000					\$500,000
4	Hillside Avenue Drainage Improvements	100,000	100,000	100,000	100,000	100,000		\$500,000
5	St. Leo Place Drainage Correction	50,000	250,000					\$300,000
8	Dyer Street Drainage Improvements	301,000						\$301,000
6	Hartwell Community Drainage Imprvmnts.		100,000			100,000	100,000	\$300,000
7	Eatondale Stormwater Intake Imprvmnts.		250,000					\$250,000
12	Settle - Madison to Roe		32,000	208,000				\$240,000
9	Winton 84-inch Sewer Elimination			70,000				\$70,000
13	Orlando Pl - Stewert to Peabody			189,000				\$189,000
14	Stewert Avenue - Madison Rd. to Orla			94,000				\$94,000
10	West Fork Channel Repair				300,000			\$300,000
11	Moorehead St. to Swift Ave. Drainage Imp				300,000			\$300,000
15	Haley Ave. at Settle St.				29,000	189,000		\$218,000
16	Dunaway Ct.					17,000	111,000	\$128,000
17	Osgood St.					7,000	46,000	\$53,000
Stormwater Management Total:		1,695,000	1,062,000	861,000	829,000	513,000	357,000	\$5,317,000
<b><u>MSD Capital Improvements Fund</u></b>								
1	Towers East PS Elimination	2,154,100						\$2,154,100
3	Werk and Westbourne EHRT Facility	709,000			38,482,900			\$39,191,900
27	CSO 194 High Point Sewer Separation	480,000		4,159,900				\$4,639,900
28	CSO 195 Westwood Northern Sewer Separ.	120,000			3,355,000			\$3,475,000
29	CSO 525 Mt. Airy Grating Sewer Separ.	192,000				3,406,800		\$3,598,800
33	Lower Mill Creek Partial Remedy	10,500,000	7,500,000	7,500,000	6,461,600	290,095,000		\$322,056,600
34	SSO 1000 Elimination	268,000			2,023,600			\$2,291,600
35	SSO 228 Elimination	201,200			1,499,800			\$1,701,000
43	LMWWTP Planning Bundle	1,033,700	5,582,800					\$6,616,500
47	CSO 135 Improvements	43,400						\$43,400
48	CSO 43 Improvements	44,400						\$44,400
49	CSO 54 Improvements	40,200				314,700		\$354,900
50	CSO 170 Improvements	42,400						\$42,400
51	CSO 187 Improvements	39,100		295,100				\$334,200
52	CSO 214 Storage Facility	2,505,200	218,800					\$2,724,000
53	CSO 500 Improvements	42,900						\$42,900
54	CSO 501 Improvements	43,400						\$43,400
55	CSO 549 Improvements	43,900						\$43,900
56	CSO 550 Improvements	44,400						\$44,400
57	CSO 551 Sewer Separation	567,100	59,800		4,125,900			\$4,752,800
58	CSO 552 Improvements	41,900						\$41,900
59	CSO 553 Sewer Separation	293,000	59,800					\$352,800
60	Upper Duck Creek HRT Facility	2,700,100	648,800					\$3,348,900
63	Eastern/Delta Sewer Separation Ph 3	11,447,100						\$11,447,100
66	Sewer Relining Program	7,858,200	8,133,200	8,417,900	8,712,500	8,973,900	9,153,400	\$51,249,100
67	Manhole Rehabilitation Program	1,309,800	1,355,600	1,403,100	1,452,200	1,495,800	1,525,700	\$8,542,200
68	Water in Basement Prevention Program	2,750,000	2,750,000	2,750,000	2,750,000	2,750,000	2,750,000	\$16,500,000
69	RDI/I Program	4,003,800	4,166,100	4,311,900	4,462,800	4,619,000	4,711,400	\$26,275,000
70	WWIP Development Studies and Reports	1,684,600	1,730,400	1,527,900	1,577,000	1,624,300	1,656,800	\$9,801,000

# Capital Improvement Plan - Sewers

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>MSD Capital Improvements Fund</u></b>								
71	MSD Sustainable Infrastructure Program	27,000,000	34,000,000	40,000,000	45,000,000	46,350,100	47,277,100	\$239,627,200
72	Urgent Capacity Response	2,619,500	2,711,200	2,806,100	2,904,300	2,991,400	3,051,200	\$17,083,700
73	Home Sewer Treatment System Extensions	1,833,700	1,897,900	1,964,300	2,033,100	2,094,100	2,136,000	\$11,959,100
74	WWIP Mangement and Suppoprt Services	12,800,000	13,000,000	13,385,000	13,000,000	13,000,000	13,260,000	\$78,445,000
75	Spring Leaf Pump Station Elimination	675,200		2,181,800				\$2,857,000
76	Homelawn Estates PS Elimination	131,900		356,200				\$488,100
77	White Oak Pump Station Elimination	174,100		578,600				\$752,700
78	Wesselman Sewer Phase II-A	3,937,500						\$3,937,500
80	CSO 410 Stream Separation	1,459,700						\$1,459,700
81	MUCRWWTP Electrical Upgrades	7,067,500						\$7,067,500
83	Dellers Glen PS Elimination	467,000						\$467,000
84	Bender Rd Aerial Sewer Crossing	129,000						\$129,000
85	Country Club Estates PS Elimination	1,444,900						\$1,444,900
86	Wastewater Engineering Building Lease	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	\$7,200,000
87	Dellway Ave Sewer Replacement	2,592,600						\$2,592,600
93	CSO 483 Sewer Separation	5,618,500						\$5,618,500
94	Cora Avenue Sewer Replacement	189,500		518,000				\$707,500
95	North Avondale Basin Study	698,000						\$698,000
96	German Cemetery Sewer Replacement	191,500		460,400				\$651,900
97	Benson St. Sewer Replacement	2,859,000						\$2,859,000
98	Badgeley RTC Reloc and Grit Pit	1,873,000						\$1,873,000
99	Macaulley St. Sewer Replacement	100,700		310,100				\$410,800
101	Mt. Airy Forest Sewer Replacement	3,527,000						\$3,527,000
102	Diehl Road Sewer Replacement	630,300						\$630,300
103	Shasta Place Sewer Replacement	227,600						\$227,600
105	Lynnehaven Drive Sewer Replacement	145,900						\$145,900
106	MCWWTP Raw Sewage PS Upgrade	3,420,600	7,944,200					\$11,364,800
109	SSO 603 and 704 Improvements	3,824,400						\$3,824,400
110	MCWWTP Anaerobic Digester Conv	18,803,100						\$18,803,100
111	Ardmore Ave. Sewer Replacement	1,470,200						\$1,470,200
112	Wilder Avenue Sewer Replacement	238,000						\$238,000
118	Beckman Pump Station Elimination	101,800		316,400				\$418,200
119	LMWWTP-Four Mile PS Improv	2,035,800						\$2,035,800
120	Moeller Avenue Sewer Replacement	989,800						\$989,800
121	Fairfax Avenue Sewer Replacement	333,500						\$333,500
123	Land Acquisition	1,500,000	1,500,000	1,500,000	1,500,000			\$6,000,000
124	Emergency Sewer Repairs 2011	8,150,000						\$8,150,000
129	SCADA System Installs and Upgrades	11,802,600						\$11,802,600
130	CIP Project Planning 2011	2,500,000						\$2,500,000
135	WWT Roofing and Paving Rehab/Replmt.	209,200	209,200	209,200	209,200	209,200	213,300	\$1,259,300
136	Asset Rehab and Replacement Plan	1,000,000	500,000	500,000	500,000			\$2,500,000
137	Reliability Services	1,348,500						\$1,348,500
140	Flow Monitoring and Rain Gauges 2011	3,800,000						\$3,800,000
145	Flow Modeling 2011	2,100,000						\$2,100,000
150	High Risk Asset Renewal 2011	5,150,000						\$5,150,000
155	MSD-DUKE Sewer Televising Partnership	10,000,000	10,000,000	10,000,000	10,000,000			\$40,000,000
157	Value Engineering	375,000	375,000	375,000	375,000			\$1,500,000
163	Indef. Delivery/Indef. Quantity 2011	120,000						\$120,000
12	Ludlow and Lafayette Parallel Sewer		126,100			808,600		\$934,700

# Capital Improvement Plan - Sewers

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>MSD Capital Improvements Fund</u></b>								
13	SSO 700 Storage Facility		5,639,200		13,267,100			\$18,906,300
15	CSO 512 Improvements		20,000		45,300			\$65,300
16	CSO 513 Sewer Separation		198,900		454,200			\$653,100
17	CSO 514 Sewer Separation		105,300		239,000			\$344,300
26	CSO 179 Sewer Separation		198,400			1,489,400		\$1,687,800
79	Westchase Park Pump Station Elim		322,700					\$322,700
82	Barringtonhls BLKF GVOLZ/KAK		5,004,700					\$5,004,700
100	Millbrook [#]2 PS Upgrade		1,570,200					\$1,570,200
104	Fairmount Avenue Sewer Replacement		592,800					\$592,800
108	E. Mitchell Avenue Sewer Replacement		1,065,400					\$1,065,400
116	Wasson Road Sewer Replacement		338,300					\$338,300
117	Beverly Hill Drive Sewer Replacement		274,700					\$274,700
122	Linwood Avenue Sewer Replacement		801,100					\$801,100
125	Emergency Sewer Repairs 2012		8,150,000					\$8,150,000
131	CIP Project Planning 2012		2,000,000					\$2,000,000
138	Remaining Asset Allowance 2012		9,673,700					\$9,673,700
141	Flow Monitoring and Rain Gauges 2012		3,800,000					\$3,800,000
146	Flow Modeling 2012		2,100,000					\$2,100,000
151	High Risk System Asset Renewal 2012		5,150,000					\$5,150,000
164	Indef. Delivery/Indef. Quantity 2012		120,000					\$120,000
4	MuCrWWTP Ad New Belt Filter Press			1,334,000				\$1,334,000
5	MuCrWWTP Grit Replacement			4,747,800				\$4,747,800
6	SSO 1048 Conveyance Sewer			190,800				\$190,800
7	SSO 1048 CONVEYANCE SEWER PHASE 2			251,900				\$251,900
8	SSO 587 Conveyance Sewer			128,400				\$128,400
9	SSO 700 Influent Trunk Sewer			3,441,800				\$3,441,800
10	Lockland Sewer Separation			256,800				\$256,800
11	Pleasant Run Sewer - Kem. To JG			133,700				\$133,700
18	Blue Rock Rd Sewer Separation			1,952,000				\$1,952,000
19	CSO 226 Improvements			20,700		46,200		\$66,900
20	CSO 559 Improvements			20,700		46,200		\$66,900
21	CSO 515 Improvements			20,700		47,900		\$68,600
22	CSO 516 Improvements			20,700		48,300		\$69,000
23	CSO 538 Improvements			20,700		46,200		\$66,900
24	CSO 539 Improvements			20,700		46,200		\$66,900
25	CSO 562 Improvements			20,700		46,200		\$66,900
30	MCWWTP Auxillary Outfall Imprv.			16,240,900				\$16,240,900
31	MCWWTP Secondary Bypass Weir			151,800				\$151,800
32	MCWWTP Addl. Primary Sludge Pumping			1,408,500				\$1,408,500
36	Little Miami Four Mile PS Upgrade			374,200				\$374,200
37	LMWWTP Pump Sta. Reconfig.			319,500				\$319,500
38	LMWWTP Grit Station Upgrade			790,700				\$790,700
39	LMWWTP 4 Mile PS HYD Improv.			199,000				\$199,000
40	LMWWTP Prim to Sec Hyd Improv.			183,100				\$183,100
41	LMWWTP Chem. Enhanced Prim Treat.			628,400				\$628,400
42	LMWWTP Secondary Trmt. Modifications			952,700				\$952,700
44	LMWWTP Chemical Feed Sys. Upgrades			377,300				\$377,300
45	LMWWTP Sludge Receiving Fac. Improv.			45,600				\$45,600
46	LMWWTP Dual Feed/Standby Power			752,500				\$752,500

# Capital Improvement Plan - Sewers

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>MSD Capital Improvements Fund</u></b>								
61	CSO 471 Grandin Rd Regulator Improvement			290,000				\$290,000
62	CSO 470 Eastern Ave Sewer Separation			1,635,100				\$1,635,100
64	LMWWTP Wet Weather P.S.			3,570,400				\$3,570,400
65	LMWWTP 4 Mile Dry Weather Pumps			162,100				\$162,100
88	Ohio Avenue Sewer Replacement			234,700				\$234,700
89	Sharon Industrial Park PS Replacement			1,489,100				\$1,489,100
90	Blair Avenue Sewer Replacement			285,800				\$285,800
91	Stover Avenue Sewer Replacement			364,600				\$364,600
92	CSO 125 Sewer Enhancements			3,687,000				\$3,687,000
107	3934 Winding Way Sewer Replacement			522,100				\$522,100
113	Polk Run TP Reliab. And Serv. Upg.			8,257,900				\$8,257,900
114	Dry Run Area Sewers Phase 1			11,974,700				\$11,974,700
115	Dry Run Area Sewers Ph 2			8,474,400				\$8,474,400
126	Emergency Sewer Repairs 2013			8,150,000				\$8,150,000
132	CIP Project Planning 2013			2,000,000				\$2,000,000
142	Flow Monitoring and Rain Gauges 2013			3,800,000				\$3,800,000
147	Flow Modeling 2013			2,100,000				\$2,100,000
152	High Risk System Asset Renewal 2013			5,150,000				\$5,150,000
14	Daly Road Sewer Replacement				13,649,000			\$13,649,000
127	Emergency Sewer Repairs 2014				8,150,000			\$8,150,000
133	CIP Project Planning 2014				2,000,000			\$2,000,000
139	Remaining Asset Allowance				32,173,100	46,898,600	47,836,600	\$126,908,300
143	Flow Monitoring and Rain Gauges 2014				3,800,000			\$3,800,000
148	Flow Modeling 2014				2,100,000			\$2,100,000
153	High Risk System Asset Renewal 2014				5,150,000			\$5,150,000
2	Upper Muddy Lower Planning					3,242,300		\$3,242,300
128	Emergency Sewer Repairs 2015					8,150,000	8,313,000	\$16,463,000
134	CIP Project Planning 2015					2,000,000	2,040,000	\$4,040,000
144	Flow Monitoring and Rain Gauges 2015					3,800,000	3,876,000	\$7,676,000
149	Flow Modeling 2015					2,100,000	2,142,000	\$4,242,000
154	High Risk System Asset Renewal 2015					5,150,000	5,253,000	\$10,403,000
MSD Capital Improvements Total:		210,069,000	152,794,300	204,181,100	232,652,600	453,090,400	156,395,500	\$1,409,182,900
Department of Sewers Total:		211,764,000	153,856,300	205,042,100	233,481,600	453,603,400	156,752,500	\$1,414,499,900

**Stormwater Management Fund**

**Barrier Dam Facility Repairs**

**Dept. Priority:** 1

**Description:** This project would provide funding for the repair of the Barrier Dam Facility and associated equipment. The recent inspection by the U.S. Army Corps of Engineers as part of FEMA certification revealed items that require maintenance attention.

**Purpose:** The purpose of this project is to ensure that the City is ready in the event of a flood and to extend the useful life of these facilities. Federal Emergency Management Agency (FEMA) certification requirements would be met through the completion of this project.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		100,000	100,000	200,000	100,000	100,000	100,000	\$700,000
Total	2,300,000	100,000	100,000	200,000	100,000	100,000	100,000	\$700,000
Estimated Personnel Cost								\$0

**Guerley Rd. Outlet to Sunset Drain Imp.**

**Dept. Priority:** 2

**Description:** This project would provide funding to solve the drainage and flooding problems in the Guerley Road and Dunham Way areas and construct a solution.

**Purpose:** The purpose of this project is to reduce the frequent street flooding on Guerley Road in the vicinity of the intersection with Dunham Way.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		874,000						\$874,000
Total	95,000	874,000						\$874,000
Estimated Personnel Cost								\$0

**3674 Hillside Ave. Stormwtr. Intake Imp.**

**Dept. Priority:** 3

**Description:** This project would provide funding for the construction of an access road, embankment stabilization, and other improvements in the drainage channel, as necessary, to facilitate operation and cleaning of the existing intake structure. This is needed to stabilize the hillside, which is high and steep and falling into the intake.

**Purpose:** The purpose of this project is to improve the cleaning and maintenance access to this structure and stabilize a stream bank experiencing significant erosion and contributing to higher maintenance costs associated with the intake.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		270,000	230,000					\$500,000
Total	90,000	270,000	230,000					\$500,000
Estimated Personnel Cost								\$0

**Hillside Avenue Drainage Improvements**

**Dept. Priority:** 4

**Description:** Drainage improvements will predominantly consist of concrete lined gutters, which have shown to be very effective along the steep terrain of Hillside Avenue; however, many other typical stormwater drainage infrastructure may also be used such as trench drain, pipes, intakes, earthen and asphalt ditches, curbs, and rock-lined channels. This project is intended to improve drainage along Hillside Avenue.

**Purpose:** This project is to provide improved drainage along Hillside Avenue in the Riverside community. The Riverside Community Council submitted a community priority request form identifying several blocks of Hillside Avenue as needing improved drainage.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		10,000						\$10,000
Construction		90,000	100,000	100,000	100,000	100,000		\$490,000
Total		100,000	100,000	100,000	100,000	100,000		\$500,000
Estimated Personnel Cost								\$0

**St. Leo Place Drainage Correction**

**Dept. Priority:** 5

**Description:** This project would provide funding to update the sewer intakes and improve the drainage in the area around St. Leo Place.

**Purpose:** The purpose of this project is to reduce intake clogging in the sewer system on the wooded hillside above St. Leo Place and to upsize the storm sewer system as necessary to accommodate any increased flows from the inlets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		50,000						\$50,000
Land			25,000					\$25,000
Construction			225,000					\$225,000
Total		50,000	250,000					\$300,000
Estimated Personnel Cost								\$0

**Dyer Street Drainage Improvements**

**Dept. Priority:** 8

**Description:** This project would provide funding for a new outfall sewer and drainage collection system along Dyer Street.

**Purpose:** The purpose of this project is to create positive drainage and reduce ponding along the right-of-way.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		301,000						\$301,000
Total		301,000						\$301,000
Estimated Personnel Cost								\$0

**Hartwell Community Drainage Imprvmnts.**

**Dept. Priority:** 6

**Description:** Stormwater Management Utility (SMU) will partner with the Department of Transportation and Engineering (DOTE) on a grant-funded street improvement project, targeting the following streets: Parkway Avenue, Wildwood Avenue and Monon Avenue. Drainage improvements will include many of the typical stormwater drainage infrastructure such as inlets, pipes, intake, bioswales, porous pavements, curbs and rock-lined channels, etc.

**Purpose:** This project will improve drainage along unimproved streets within the Hartwell Community. The Hartwell Community Council submitted a Community Priority request dated 2008 identifying the following streets as being deteriorated and lacking adequate drainage: sections of Decamp, Parkway, Glendale, Sheehan, Woodbine, Wildwood, and Monon Avenues. Depending on available grant funding, the Department of Transportation and Engineering (DOTE) and the Stormwater Management Utility (SMU) have agreed to target three of the streets, which represent the greatest need based on pavement condition and lack of drainage leading to excessive ponding and potential flooding problems.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			100,000			100,000	100,000	\$300,000
Total			100,000			100,000	100,000	\$300,000
Estimated Personnel Cost								\$0

**Eatondale Stormwater Intake Imprvmnts.**

**Dept. Priority:** 7

**Description:** This project would provide funding for the construction of an access road and other improvements in the Eatondale drainage channel, as necessary to facilitate operation and cleaning of the existing intake structure.

**Purpose:** This project will improve maintenance access to this structure. Currently, maintenance and cleaning access to this structure is very costly and disruptive to the property owner.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			250,000					\$250,000
Total			250,000					\$250,000
Estimated Personnel Cost								\$0

**Settle - Madison to Roe**

**Dept. Priority:** 12

**Description:** This project will provide drainage improvement by creating positive stormwater drainage to reduce ponding.

**Purpose:** The purpose of this project is to create positive stormwater drainage and reduce ponding.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			32,000					\$32,000
Construction				208,000				\$208,000
Total			32,000	208,000				\$240,000
Estimated Personnel Cost								\$0

**Winton 84-inch Sewer Elimination**

**Dept. Priority:** 9

**Description:** This project is to fill, seal, and abandon a deteriorated 84-inch corrugated metal culvert pipe that crosses Winton Road and is not needed for public or private drainage.

**Purpose:** Due to regrading of the Gray Road Landfill, the drainage through the site no longer runs through an 84-inch storm culvert. Upstream access to this pipe has been eliminated and is now covered by several feet of fill making the culvert a confined space access requirement. It is now very expensive to inspect and maintain. This project will fill and seal the pipe with a flowable, cementitious, fill material.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				6,000				\$6,000
Construction				64,000				\$64,000
Total				70,000				\$70,000
Estimated Personnel Cost								\$0

**Orlando Pl - Stewart to Peabody**

**Dept. Priority:** 13

**Description:** This project will provide resources for drainage improvement on Orlando Place.

**Purpose:** The purpose of this project is to create positive stormwater drainage and reduce ponding.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				189,000				\$189,000
Total				189,000				\$189,000
Estimated Personnel Cost								\$0

**Stewart Avenue - Madison Rd. to Orla**

**Dept. Priority:** 14

**Description:** This project will provide resources for drainage improvement along Stewart Avenue.

**Purpose:** The purpose of this project is to create positive stormwater drainage and reduce ponding.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				94,000				\$94,000
Total				94,000				\$94,000
Estimated Personnel Cost								\$0

**West Fork Channel Repair**

**Dept. Priority:** 10

**Description:** This project would provide funding to repair concrete floors and concrete walls in the West Fork Channel which are deteriorating. If the MSD project moves forward and MSD determines that eliminating the channel is the best solution, then SMU will coordinate the work with MSD. Until then, these channel floors and walls need to be repaired.

**Purpose:** The purpose of this project is to provide efficient flow of stormwater.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction					300,000			\$300,000
Total					300,000			\$300,000
Estimated Personnel Cost								\$0

**Moorehead St. to Swift Ave. Drainage Imp**

**Dept. Priority:** 11

**Description:** This project will construct approximately 400 lineal feet of storm sewer and approximately 4 inlets to improve drainage along Moorehead Street.

**Purpose:** The purpose of this project is to provide stormwater infrastructure to an unimproved street to resolve significant ponding and surface flooding during heavy rain events.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					70,000			\$70,000
Land					10,000			\$10,000
Construction					218,000			\$218,000
Other					2,000			\$2,000
Total					300,000			\$300,000
Estimated Personnel Cost								\$0

**Haley Ave. at Settle St.**

**Dept. Priority:** 15

**Description:** This project will provide resources for drainage improvement along Haley Avenue.

**Purpose:** The purpose of this project is to create positive stormwater drainage and reduce ponding.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					29,000			\$29,000
Construction						189,000		\$189,000
Total					29,000	189,000		\$218,000
Estimated Personnel Cost								\$0

**Dunaway Ct.**

**Dept. Priority:** 16

**Description:** This project will provide resources for drainage improvement along Dunaway Court.

**Purpose:** The purpose of this project is to create positive stormwater drainage and reduce ponding.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						17,000		\$17,000
Construction							111,000	\$111,000
Total						17,000	111,000	\$128,000
Estimated Personnel Cost								\$0

**Osgood St.**

**Dept. Priority:** 17

**Description:** This project will provide resources for drainage improvement along Osgood Street.

**Purpose:** The purpose of this project is to create positive stormwater drainage and reduce ponding.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						7,000		\$7,000
Construction							46,000	\$46,000
Total						7,000	46,000	\$53,000
Estimated Personnel Cost								\$0

**MSD Capital Improvements Fund**

**Towers East PS Elimination**

**Dept. Priority:** 1

**Description:** This project consists of the installation of approximately 1,430 feet of sanitary sewer from the Towers East Pump Station to the Ponderosa Pump Station, replacing the Ponderosa Pump Station, and replacement of 2,200 feet of existing forcemain from the Ponderosa Pump Station to the intersection of Sheperd Road and Colerain Ave. This project will eliminate the Towers East Pump Station. This project is located in Green Township and the City of Cincinnati.

**Purpose:** This project will eliminate the Towers East Pump Station that was installed in 1971. This pump station requires high maintenance that requires the blockage of Shepherd Creek Road. This project is listed in the Wet Weather Improvement Plan Project ID 20460.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		2,154,100						\$2,154,100
Total		2,154,100						\$2,154,100
Estimated Personnel Cost								\$0

**Werk and Westbourne EHRT Facility**

**Dept. Priority:** 3

**Description:** This project consists of a high rate treatment facility to provide storage, settling, and screening for CSO 522 at Werk and Westbourne Drive. This project is located in Green Township.

**Purpose:** This project will remediate a source of frequent health, odor, and aesthetic problems in the neighboring area due to CSO discharges.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		439,000						\$439,000
Land		270,000						\$270,000
Construction					38,482,900			\$38,482,900
Total		709,000			38,482,900			\$39,191,900
Estimated Personnel Cost								\$0

**CSO 194 High Point Sewer Separation**

**Dept. Priority:** 27

**Description:** This project is located in Westwood Northern Boulevard, Temple Avenue, Feltz Avenue, Hull Avenue, Wardall Avenue, and McFarlan Park Drive in the Westwood neighborhood of the City of Cincinnati. This project will partially separate a combined sewer area by construction of parallel sewers. Street inlets, ravine inlets, driveway drains, and parking lot drains are to be diverted from the combined sewer. Roof loads on buildings with combined internal plumbing will remain in the combined sewer.

**Purpose:** The purpose of this project is to reduce overflows at CSO 194 in accordance with the goals of the Wet Weather Improvement Program. Hydraulic modeling shows that for the typical year storm, CSO 194 overflows 22 times per year with a modeled overflow volume of 8.86 million gallons. This project is included in Westwood Northern Bundle in the Wet Weather Improvement Program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land		480,000						\$480,000
Construction				4,159,900				\$4,159,900
Total		480,000		4,159,900				\$4,639,900
Estimated Personnel Cost								\$0

**CSO 195 Westwood Northern Sewer Separ.**

**Dept. Priority:** 28

**Description:** This project is located in Westwood Northern Boulevard, Camie Place, Augusta Avenue, Phoenix Avenue, and Boudinot Avenue in the Westwood neighborhood of the City of Cincinnati and in the City of Cheviot. This project will partially separate a combined sewer area by construction of parallel sewers. Street inlets, ravine inlets, driveway drains, and parking lot drains are to be diverted from the combined sewer. Roof loads on buildings with combined internal plumbing will remain in the combined sewer.

**Purpose:** The purpose of this project is to reduce overflows at CSO 195 in accordance with the goals of the Wet Weather Improvement Program. Hydraulic modeling shows that for the typical year storm, CSO 195 overflows 38 times per year with a modeled overflow of 12.44 million gallons. This project is included in the Westwood Northern Bundle in the Wet Weather Improvement Program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land		120,000						\$120,000
Construction					3,355,000			\$3,355,000
Total		120,000			3,355,000			\$3,475,000
Estimated Personnel Cost								\$0

**CSO 525 Mt. Airy Grating Sewer Separ.**

**Dept. Priority:** 29

**Description:** This project is located in Westwood Northern Boulevard, Boudinot Avenue, North Bend Road, Alpine Place, Puhlman Avenue, Van Zandt Lane, and Dickinson Road in the Westwood neighborhood of the City of Cincinnati, in the City of Cheviot, and in Green Township. This project will partially separate a combined sewer area by construction of parallel sewers. Street inlets, ravine inlets, driveway drains, and parking lot drains are to be diverted from the combined sewer. Roof loads on buildings with combined internal plumbing will remain in the combined sewer.

**Purpose:** The purpose of this project is to reduce overflows at CSO 525 in accordance with the goals of the Wet Weather Improvement Program. Hydraulic modeling shows that for the typical year storm, CSO 525 overflows 22 times per year with a modeled overflow volume of 5.89 million gallons. This project is included in the Westwood Northern Bundle in the Wet Weather Improvement Program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land		192,000						\$192,000
Construction						3,406,800		\$3,406,800
Total		192,000				3,406,800		\$3,598,800
Estimated Personnel Cost								\$0

**Lower Mill Creek Partial Remedy**

**Dept. Priority:** 33

**Description:** This project is comprised of an EHRT Alternatives Analysis that will: 1) describe components of the facility for which MSD intends to seek a PTI; 2) describe a range of alternatives for the EHRT; and 3) compare the EHRT in the Original LMCPR with alternative EHRTs for clarification by cost, benefits in pollutant removal, and cost-effectiveness. This project will also provide tunnel planning, design, and construction to reduce CSO discharges into the Lower Mill Creek.

**Purpose:** The purpose of this project is to fulfill a requirement of the Wet Weather Improvement Program by reducing CSO discharges into the Lower Mill Creek.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		10,500,000	7,500,000	7,500,000	6,461,600	1,500,000		\$33,461,600
Construction						288,595,000		\$288,595,000
Total		10,500,000	7,500,000	7,500,000	6,461,600	290,095,000		\$322,056,600
Estimated Personnel Cost								\$0

**SSO 1000 Elimination**

**Dept. Priority:** 34

**Description:** This project is intended eliminate SSO 1000. The June 2009 submittal project description/design calls for the replacement of approximately 4,400 feet of the existing main line public sewer. MSD will examine this and other alternatives to address this problem. This project is in the Pleasant Ridge neighborhood of the City of Cincinnati.

**Purpose:** This project will eliminate SSO 1000. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		268,000						\$268,000
Construction					2,023,600			\$2,023,600
Total		268,000			2,023,600			\$2,291,600
Estimated Personnel Cost								\$0

**SSO 228 Elimination**

**Dept. Priority:** 35

**Description:** This project is intended to result in the elimination of SSO 228. The June 2009 submittal project description/design calls for the replacement of approximately 3,100 feet of the existing main line public sewer. MSD will examine this and other alternatives to address this problem. This is in the Kennedy Heights neighborhood of the City of Cincinnati.

**Purpose:** This project will eliminate SSO 228. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		201,200						\$201,200
Construction					1,499,800			\$1,499,800
Total		201,200			1,499,800			\$1,701,000
Estimated Personnel Cost								\$0

**LMWWTP Planning Bundle**

**Dept. Priority:** 43

**Description:** The project bundle will plan the Little Miami WWTP Bundle. This request is to begin the planning effort on four of these projects; 10170782 LM Four Mile Pump Station Upgrade, 10170785 LMWWTP Pump Station Hydraulic Improvements, 10170794 Standby Power, 10172260 Dry Weather Pump Station. These four projects are included in WWIP Phase 1 for planning and design but reliability concerns at the Four Mile PS may advance these to construction in Phase 1. These projects are in the East End neighborhood of the City of Cincinnati.

**Purpose:** The project bundle will provide the firm pumping capacity of 55 MGD average daily flow and 100 MGD peak wet weather flows to the plant as required by the WWIP. It will also provide more reliability to pump and treat flows with necessary electrical upgrades at the Four Mile Pump Station and the addition of secondary power for the entire facility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,033,700	5,582,800					\$6,616,500
Total		1,033,700	5,582,800					\$6,616,500
Estimated Personnel Cost								\$0

**CSO 135 Improvements**

**Dept. Priority:** 47

**Description:** This project is intended to make improvements to CSO 135. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located in Columbia Township.

**Purpose:** This project will make regulator improvements to CSO 135. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		43,400						\$43,400
Total		43,400						\$43,400
Estimated Personnel Cost								\$0

**CSO 43 Improvements**

**Dept. Priority:** 48

**Description:** This project is intended to make improvements to CSO 43. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located on Charloe St. just east of Saguin St. in the Madisonville neighborhood of the City of Cincinnati

**Purpose:** This project will make improvements to CSO 43. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		44,400						\$44,400
Total		44,400						\$44,400
Estimated Personnel Cost								\$0

**CSO 54 Improvements**

**Dept. Priority:** 49

**Description:** This project is intended to make improvements to CSO 54. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located in the Pleasant Ridge neighborhood of the City of Cincinnati.

**Purpose:** This project will make improvements to CSO 54. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		40,200						\$40,200
Construction						314,700		\$314,700
Total		40,200				314,700		\$354,900
Estimated Personnel Cost								\$0

**CSO 170 Improvements**

**Dept. Priority:** 50

**Description:** This project will make regulator improvements to CSO 170. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located in the City of Norwood.

**Purpose:** This project is intended to make improvements to CSO 170. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		42,400						\$42,400
Total		42,400						\$42,400
Estimated Personnel Cost								\$0

**CSO 187 Improvements**

**Dept. Priority:** 51

**Description:** This project is intended to result in improvements to CSO 187. MSD will examine alternatives to address this problem. This project is in the Pleasant Ridge neighborhood of the City of Cincinnati.

**Purpose:** This project will make improvements to CSO 187. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		39,100						\$39,100
Construction				295,100				\$295,100
Total		39,100		295,100				\$334,200
Estimated Personnel Cost								\$0

**CSO 214 Storage Facility**

**Dept. Priority:** 52

**Description:** This project is intended to increase storage in the collection system at CSO 214. The June 2009 submittal Project Description/Design calls for the construction of a storage facility. MSD will examine this and other alternatives to address this problem. This project is located in Columbia Township.

**Purpose:** This project will increase storage in the collection system at CSO 214. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		2,505,200						\$2,505,200
Land			218,800					\$218,800
Total		2,505,200	218,800					\$2,724,000
Estimated Personnel Cost								\$0

**CSO 500 Improvements**

**Dept. Priority:** 53

**Description:** This project is intended to result in improvements to CSO 500. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located in the Oakley neighborhood of the City of Cincinnati.

**Purpose:** This project will make improvements to CSO 500. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		42,900						\$42,900
Total		42,900						\$42,900
Estimated Personnel Cost								\$0

**CSO 501 Improvements**

**Dept. Priority:** 54

**Description:** This project is intended to result in improvements to CSO 501. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located in the Oakley neighborhood of the City of Cincinnati.

**Purpose:** This project will make improvements to CSO 501. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		43,400						\$43,400
Total		43,400						\$43,400
Estimated Personnel Cost								\$0

**CSO 549 Improvements**

**Dept. Priority:** 55

**Description:** This project is intended to result in improvements to CSO 549. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located in Norwood.

**Purpose:** This project will make improvements to CSO 549. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		43,900						\$43,900
Total		43,900						\$43,900
Estimated Personnel Cost								\$0

**CSO 550 Improvements**

**Dept. Priority:** 56

**Description:** This project is intended to result in improvements to CSO 550. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This project is located in Norwood.

**Purpose:** This project will make improvements to CSO 550. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		44,400						\$44,400
Total		44,400						\$44,400
Estimated Personnel Cost								\$0

**CSO 551 Sewer Separation**

**Dept. Priority:** 57

**Description:** This project is intended to result in the reduction of overflows at CSO 551. The June 2009 submittal Project Description/Design calls for sewer separation. MSD will examine this and other alternatives to address this problem. This project is located in the Oakley neighborhood of the City of Cincinnati.

**Purpose:** This project will separate sewers to reduce overflows at CSO 551. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		567,100						\$567,100
Land			59,800					\$59,800
Construction					4,125,900			\$4,125,900
Total		567,100	59,800		4,125,900			\$4,752,800
Estimated Personnel Cost								\$0

**CSO 552 Improvements**

**Dept. Priority:** 58

**Description:** This project is intended to result in improvements to CSO 552. The June 2009 submittal Project Description/Design calls for regulator improvements. MSD will examine this and other alternatives to address this problem. This is in the Oakley neighborhood of the City of Cincinnati.

**Purpose:** This project will make improvements to CSO 552. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		41,900						\$41,900
Total		41,900						\$41,900
Estimated Personnel Cost								\$0

**CSO 553 Sewer Separation**

**Dept. Priority:** 59

**Description:** This project is intended to result in the reduction of overflows at CSO 553. The June 2009 submittal Project Description/Design calls for sewer separation. MSD will examine this and other alternatives to address this problem. This project is located in the Oakley neighborhood of the City of Cincinnati.

**Purpose:** This project will separate sewers to reduce overflows at CSO 553. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		293,000						\$293,000
Land			59,800					\$59,800
Total		293,000	59,800					\$352,800
Estimated Personnel Cost								\$0

**Upper Duck Creek HRT Facility**

**Dept. Priority:** 60

**Description:** This project will examine the possibility of the construction of an EHRT and/or other alternatives to address problems associated with CSOs 170, 549, 550, 501, 500. This project is located in the City of Norwood.

**Purpose:** This project will construct an EHRT facility and/or other alternatives. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		2,700,100						\$2,700,100
Land			648,800					\$648,800
Total		2,700,100	648,800					\$3,348,900
Estimated Personnel Cost								\$0

**Eastern/Delta Sewer Separation Ph 3**

**Dept. Priority:** 63

**Description:** This project will separate the area tributary to CSO 467A to bring about elimination of the CSO, construct flow regulators and flap gate structures at CSO's 467, 468 and 469, Demolish Delta Ave. PS, and separate and eliminate CSO 657. This project is located in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project will eliminate two CSO's and provide better high water protection. This project will decrease maintenance costs at the CSO's and at the Delta Avenue Pump Station by an average of \$38,500 per year. Project Mandated under Global Consent Decree.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		11,447,100						\$11,447,100
Total		11,447,100						\$11,447,100
Estimated Personnel Cost								\$0

**Sewer Relining Program**

**Dept. Priority:** 66

**Description:** This program conducts internal lining of sewers and external lining of aerial sewers throughout the system as a cost effective method of rehabilitating structurally deteriorated sewers. This program will include (but not limit itself to) spiral wound pipe, pipe bursting, carbon filament wrapping, directional drilling, and jack-and-boring. These projects are identified through investigations of the sewer lines and are prioritized based on a standardized condition assessment procedure.

**Purpose:** Lining provides a cost-effective method of rehabilitating deteriorated sewers while improving the hydraulic performance of the sewer. This work may also increase development credits.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		577,800	597,600	618,600	640,200	659,400	9,153,400	\$12,247,000
Construction		7,280,400	7,535,600	7,799,300	8,072,300	8,314,500		\$39,002,100
Total		7,858,200	8,133,200	8,417,900	8,712,500	8,973,900	9,153,400	\$51,249,100
Estimated Personnel Cost								\$0

**Manhole Rehabilitation Program**

**Dept. Priority:** 67

**Description:** This program provides a cost effective method of rehabilitating structurally deteriorated manholes throughout the system. Manhole rehab projects are identified through investigations and are prioritized based on a standardized condition assessment procedure. NOTE: This program is expected to require future funding beyond the present 5 year CIP window (2011-2015).

**Purpose:** The Global Consent Decree requires MSDGC to rehabilitate 150 manholes each year to reduce infiltration and inflow upstream of SSOs to reduce overflows. This project creates development credits upstream of an SSO.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		96,400	99,600	103,000	106,800	110,000	1,525,700	\$2,041,500
Construction		1,213,400	1,256,000	1,300,100	1,345,400	1,385,800		\$6,500,700
Total		1,309,800	1,355,600	1,403,100	1,452,200	1,495,800	1,525,700	\$8,542,200
Estimated Personnel Cost								\$0

**Water in Basement Prevention Program**

**Dept. Priority:** 68

**Description:** This program performs modifications on private property to eliminate sewage backups in buildings from wet weather related surcharged sanitary and combined sewer systems. Solutions include installation of backflow prevention valves, pumping systems, plumbing changes, upgraded electrical services, waterproofing, recessed driveway filling, regrading of earth, or other technologies. This program operates clean-up claims, prevention activities, customer education and communication, property acquisition, and other activities related to the administration and management of this program.

**Purpose:** This program eliminates water in basement problems in a more cost effective way than upgrading area sewers.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		532,600	130,400	130,400	130,400	130,400	2,750,000	\$3,804,200
Land		1,077,900	1,862,000	1,862,000	1,862,000	1,862,000		\$8,525,900
Construction		1,139,500	757,600	757,600	757,600	757,600		\$4,169,900
Total		2,750,000	2,750,000	2,750,000	2,750,000	2,750,000	2,750,000	\$16,500,000
Estimated Personnel Cost								\$0

**RDI/I Program**

**Dept. Priority:** 69

**Description:** Projects for RDI/I are identified through investigations which may use intrusive methods. Remedial projects are funded through this program or either or both of the sewer relining and manhole rehabilitation allowance programs, depending on the choice of construction methods. This program will impact various locations throughout Hamilton County. NOTE: The Rainfall Derived Infiltration and Inflow Program is expected to require future funding beyond the present 5 year CIP window (2011-2015)

**Purpose:** This program will assist in the elimination of sanitary sewer overflows.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,303,800	624,900	646,800	669,400	692,800	4,711,400	\$8,649,100
Construction		2,700,000	3,541,200	3,665,100	3,793,400	3,926,200		\$17,625,900
Total		4,003,800	4,166,100	4,311,900	4,462,800	4,619,000	4,711,400	\$26,275,000
Estimated Personnel Cost								\$0

**WWIP Development Studies and Reports**

**Dept. Priority:** 70

**Description:** This program's key components include the development and implementation of a monitoring program, a reliable water quality index, reliable tools to assess water quality, effective communication, and WWIP strategies that will provide direction to MSD's Project and Business Development Division NOTE: The WWIP Progress Studies and Recreation Management allowance is expected to require future funding beyond the present 5 year CIP window (2011-2015).

**Purpose:** The purpose of this allowance is to create and implement a focused recreation management strategy tied to weather radar and ultimately the System Wide Model and to develop strategies pertaining to the implementation of the WWIP.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,684,600	1,730,400	1,527,900	1,577,000	1,624,300	1,656,800	\$9,801,000
Total		1,684,600	1,730,400	1,527,900	1,577,000	1,624,300	1,656,800	\$9,801,000
Estimated Personnel Cost								\$0

**MSD Sustainable Infrastructure Program**

**Dept. Priority:** 71

**Description:** This program's activities will initially include LID Demonstration projects (to evaluate technologies and reduce storm water impacts to CSO's), Pilot projects (to evaluate multiple methods in a set of multiple projects), Regional BMP projects (larger sewershed projects expected to capture over 10 million gallons), and Large Scale projects (long term projects in major CSO sewersheds) NOTE: The MSD Sustainable Infrastructure Program is expected to require future funding beyond the present 5 year CIP window (2011-2015)

**Purpose:** This program will fund the use of Low Impact Development Best Management Practices (LID BMP), storm water offloading through stream separation, and promotion of sustainable best practices to remove storm water from sewers in both CSO and SSO areas.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		7,027,400	8,849,400	10,410,900	11,712,300	12,063,700	47,277,100	\$97,340,800
Land		2,219,100	2,794,500	3,287,700	3,698,600	3,809,600		\$15,809,500
Construction		17,753,500	22,356,100	26,301,400	29,589,100	30,476,800		\$126,476,900
Total		27,000,000	34,000,000	40,000,000	45,000,000	46,350,100	47,277,100	\$239,627,200
Estimated Personnel Cost								\$0

**Urgent Capacity Response**

**Dept. Priority:** 72

**Description:** The measures in this allowance are either not identified as WWIP projects or would be moved up from existing WWIP schedules. All construction projects will undergo public review and evaluation as part of proposed legislation and approval by the Board of County Commissioners. This program will impact various locations in Hamilton County. NOTE: The Urgent Capacity Response Project is expected to require future funding beyond the present 5 year CIP window (2011-2015).

**Purpose:** This program will fund measures that restore sewer capacity in existing CSO communities by identifying urgent WWIP construction work that is needed to address urgent CSO community capacity needs, WIB issues, or unpermitted flows.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		655,000	677,800	701,500	726,000	747,800	3,051,200	\$6,559,300
Land		262,000	271,100	280,600	290,400	299,100		\$1,403,200
Construction		1,702,500	1,762,300	1,824,000	1,887,900	1,944,500		\$9,121,200
Total		2,619,500	2,711,200	2,806,100	2,904,300	2,991,400	3,051,200	\$17,083,700
Estimated Personnel Cost								\$0

**Home Sewer Treatment System Extensions**

**Dept. Priority:** 73

**Description:** This is a wet weather allowance, which will fund various assessment sewer projects in WWIP watersheds (Mill Creek, Little Miami River, Duck Creek, Muddy Creek and Rapid Run). The assessment sewer projects will extend water quality standard-compliant sewers to existing homes that are currently served by Home Sewage Treatment Systems (HSTS). This project includes design, property acquisition and construction of public sewers and sewer laterals. Each project will be presented to the BOCC for approval before encumbering funds for a specific project. This project is expected to require future funding beyond the present 5 year CIP window (2011-2015).

**Purpose:** This project will provide public funding for various assessment sewer projects in watersheds, which will impact the water quality of the receiving streams MSD is mandated to improve. The assessment sewer projects will convert Home Sewage Treatment Systems (HSTS) to sewer service, thereby reducing the discharge of under-treated sewage to WWIP watersheds. 60 to 90 percent of discharging HSTS can no longer meet effluent standards for fecal coliform due to their age and outdated equipment. Failing or improperly functioning HSTS are a source of discharge that has been linked to dry weather bacterial exceedances.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,833,700	1,897,900	1,964,300	2,033,100	2,094,100	2,136,000	\$11,959,100
Total		1,833,700	1,897,900	1,964,300	2,033,100	2,094,100	2,136,000	\$11,959,100
Estimated Personnel Cost								\$0

**WWIP Mangement and Suppoprt Services**

**Dept. Priority:** 74

**Description:** This project will provide for the administration of the Wet Weather Program as specified in the Consent Order.

**Purpose:** This project supports the internal efforts, supplemental staff and professional services necessary to carry out the Wet Weather Program. The activities will include project and program scheduling, project estimating, project controls, risk management efforts, program communications and outreach services.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		12,800,000	13,000,000	13,385,000	13,000,000	13,000,000	13,260,000	\$78,445,000
Total		12,800,000	13,000,000	13,385,000	13,000,000	13,000,000	13,260,000	\$78,445,000
Estimated Personnel Cost								\$0

**Spring Leaf Pump Station Elimination**

**Dept. Priority:** 75

**Description:** This project will eliminate the Spring Leaf Pump Station by constructing approximately 3364 feet of 8-inch sewer and 4577 feet of 15-inch sewer. This project is located in Colerain Township.

**Purpose:** The purpose of this project is to eliminate the Spring Leaf Pump Station. This pump station uses high speed motors which wear out 4 times faster than the more typical motors. There have been several odor complaints when the system has failed as well as water in basement incidents. Triple Bottom Line Analysis has shown that the recommended solution is to construct a gravity sewer that will eliminate this pump station.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		413,100						\$413,100
Land		262,100						\$262,100
Construction				2,181,800				\$2,181,800
Total		675,200		2,181,800				\$2,857,000
Estimated Personnel Cost								\$0

**Homelawn Estates PS Elimination**

**Dept. Priority:** 76

**Description:** This project will construct approximately 582 feet of 8-inch gravity sanitary sewer to eliminate the Homelawn Estates Pump Station. This project is located in Green Township.

**Purpose:** This project will eliminate the Homelawn Estates Pump Station. The existing structure is known to be in poor condition. The pump station is a previously converted air lift station consisting of a single pump and no back up power. Triple Bottom Line Analysis was conducted and the recommended solution was to construct a gravity sewer to eliminate the Pump Station.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		84,700						\$84,700
Land		47,200						\$47,200
Construction				356,200				\$356,200
Total		131,900		356,200				\$488,100
Estimated Personnel Cost								\$0

**White Oak Pump Station Elimination**

**Dept. Priority:** 77

**Description:** This project will install 675 feet of 12-inch sewer which will eliminate the White Oak Terrace Pump Station. This project is located in Green Township.

**Purpose:** This project will eliminate an existing lift station that is in poor condition. There are health risks due to sewage leaking from the can. A recent capital project addressed some of the problems at this pump station by replacing the air compressor with a submersible pump and cleaning the well. These improvements were intended as a temporary solution. The pump station still lacks back up power.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		96,200						\$96,200
Land		77,900						\$77,900
Construction				578,600				\$578,600
Total		174,100		578,600				\$752,700
Estimated Personnel Cost								\$0

**Wesselman Sewer Phase II-A**

**Dept. Priority:** 78

**Description:** This project will install approximately 7,220 feet of 12-24 inch sewer to enable elimination of the Hampton Pointe Pump Station, activate existing dry line sewers serving approximately 45 homes in the Glens of Hutchinson subdivision, provide public sewer to the Diamond Oaks Career Development Center campus, to enable the elimination of a septage holding tank serving the Nathanael Green Lodge, and to enable the elimination of a private pump station for Clearwater Crossing. This project is located in Green Township.

**Purpose:** This project will allow for the elimination of the following: Hampton Pointe Pump Station, Diamond Oaks private treatment plant, septage holding tank serving the Nathaniel Greene Lodge, private pump station for Clearwater Crossing, and provide a viable option to eliminate the Glenview Pump Station at a later date.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		70,000						\$70,000
Construction		3,867,500						\$3,867,500
Total		3,937,500						\$3,937,500
Estimated Personnel Cost								\$0

**CSO 410 Stream Separation**

**Dept. Priority:** 80

**Description:** This project is located at CSO 410 Fenimore Street Diversion Dam and runs perpendicular beneath River Road (US 50) from stormwater inlet 198061008 to the Ohio River. This project will design and construct 210 linear feet of 60-inch diameter storm culvert from the above mentioned storm inlet to the Ohio River, 150 linear feet of open cut storm sewer (rerouting the storm flow), and 225 linear feet of sanitary sewer relocation to facilitate separation efforts. This project is located in the Riverside neighborhood of the City of Cincinnati.

**Purpose:** Based on modeling results and an estimated project cost of \$1,681,300, this project will separate 20.9 million gallons per typical year from the combined sewer at a cost of \$.08 per gallon. Overflows at CSO 410 will be reduced by 22.3 million gallons per typical year at a cost of \$.07 per gallon.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		11,500						\$11,500
Construction		1,448,200						\$1,448,200
Total		1,459,700						\$1,459,700
Estimated Personnel Cost								\$0

**MUCRWWTP Electrical Upgrades**

**Dept. Priority:** 81

**Description:** This project includes replacement and relocation of significant electrical components that are old and in poor condition including switchgear, panel boards and motor control centers. The components are located throughout the plant and opportunities exist for consolidation of equipment. Isolation of components and conditioning of air space along with use of modern equipment can improve power distribution and equipment life spans. Infrared windows are included in the upgrades to facilitate the electrical thermography program. The plant is located in the Cincinnati neighborhood of Saylor Park.

**Purpose:** An evaluation of the Muddy Creek WWTP electrical system resulted in recommendations for upgrades or replacement of very old equipment. Some components are over 30 years old and were manufactured by a company no longer in business. At several locations in the plant replacement parts are no longer manufactured and will become increasingly difficult to obtain.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		190,000						\$190,000
Construction		6,877,500						\$6,877,500
Total		7,067,500						\$7,067,500
Estimated Personnel Cost								\$0

**Dellers Glen PS Elimination**

**Dept. Priority:** 83

**Description:** This project will consist of constructing approximately 290 feet of 8-inch sanitary sewer and demolishing the existing Dellers Glen Pump Station. This pump station was evaluated for elimination with partial design work under CIP 97-02. This project is located in Delhi Township.

**Purpose:** This project will eliminate the existing Dellers Glen Pump Station. Eliminating this pump station will provide significant cost savings to MSD by eliminating operating and maintenance costs to maintain the pump station as well as eliminate sewer backups caused by mechanical failures at the pump station.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		467,000						\$467,000
Total		467,000						\$467,000
Estimated Personnel Cost								\$0

**Bender Rd Aerial Sewer Crossing**

**Dept. Priority:** 84

**Description:** This project consists of the protection of approximately 75 feet of 24 inch sanitary sewer beginning approximately 210 feet west and 170 feet south of the intersection of Hillside Ave and Bender Rd., then continuing westward 75 feet. This project is located in the Riverside neighborhood of the City of Cincinnati.

**Purpose:** This project will protect a spiral welded steel sewer pipe which is located above Bender Creek and the normal pool level of the Ohio River. The aerial sewer is in the path of creek debris, including sections of fallen trees, which have resulted in several dents to the sewer. This project will construct a protective frame upstream on Bender Creek to protect the sewer from direct impacts from debris.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		129,000						\$129,000
Total		129,000						\$129,000
Estimated Personnel Cost								\$0

**Country Club Estates PS Elimination**

**Dept. Priority:** 85

**Description:** This project consists of the construction of approximately 3200 feet of gravity sewer between the Country Club Estates Pump Station, located at 1155 Glen Eagles Court, and existing Sanitary Sewer No. 2194 running in Rapid Run Road. The existing pump station will be decommissioned and removed. This project is located in Delhi Township.

**Purpose:** This project will eliminate the Country Club Estates Pump Station that was installed in 1963, and which is functionally obsolete due to lack of capacity and of a secondary power source. The pump station has overflowed occasionally to a nearby creek. This project replaces CIP 96-13 which studied the possibility of upgrading the Country Club Estates Pump Station.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		1,444,900						\$1,444,900
Total		1,444,900						\$1,444,900
Estimated Personnel Cost								\$0

**Wastewater Engineering Building Lease**

**Dept. Priority:** 86

**Description:** The building will be located on Woodrow Street in the City of Cincinnati's Lower Price Hill neighborhood. The building will provide additional office space to meet the staffing needs for the Consent Decree's Wet Weather Improvement Program. NOTE: This project will have costs beyond the current 5 year CIP window (2011-2015).

**Purpose:** This project will provide funds for the lease/acquisition of the new MSD Engineering Building, which will be used for housing the MSD and supplemental engineering staff to support the Wet Weather Program. The City of Cincinnati is building the facility and will lease the building to MSD at an annual cost of \$1.2 million for 20 years. The MSD/Hamilton County will own this building at the end of the lease.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering							1,200,000	\$1,200,000
Construction		1,200,000	1,200,000	1,200,000	1,200,000	1,200,000		\$6,000,000
Total		1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	\$7,200,000
Estimated Personnel Cost								\$0

**Dellway Ave Sewer Replacement**

**Dept. Priority:** 87

**Description:** This project consists of the replacement/rehabilitation of approximately 3,220 feet of combined sewers with varying sizes from 12 inches to 72 inches in diameter. The project begins approximately 170 feet west of the intersection of Van Buren Ave. and Whittier St. and continues to the intersection of Blair Ct. and Beresford Ave. This project is located in Avondale neighborhood in the City of Cincinnati.

**Purpose:** The project will replace severely deteriorated sewers that are subject to frequent repairs. Some segments of the sewers are built with segmented blocks and are constructed under two existing buildings which make the risk of collapse greater. The project will incorporate a combination of replacement by open-cut, Jack-and Bore, and Cured In Place Pipe (CIPP) rehabilitation techniques.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		2,592,600						\$2,592,600
Total		2,592,600						\$2,592,600
Estimated Personnel Cost								\$0

**CSO 483 Sewer Separation**

**Dept. Priority:** 93

**Description:** This project will convert an 8' X 14' combined sewer to storm only (eliminating combined/sanitary connections) and allowing two streams that enter the sewer to flow as runoff to the Mill Creek. The project will also construct necessary sanitary and combined infrastructure parallel to the converted 8' X 14' trunk sewer. All sanitary/combined service previously connected to the 8' X 14' trunk sewer will be connected to the new combined system running parallel along Kings Run Dr. This project is located in the Winton Hills neighborhood of the City of Cincinnati.

**Purpose:** Combined with the green control measure to be constructed under the CSO 483 Stream Separation project, this project will reduce typical year overflows at CSO 217 by 37 MG and CSO 483 by 223 MG. This will effectively eliminate CSO 483 during typical year loading. Additionally, Triple Bottom Line analysis forecasts major positive environmental and social impacts resulting from execution of this project.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		5,618,500						\$5,618,500
Total		5,618,500						\$5,618,500
Estimated Personnel Cost								\$0

**Cora Avenue Sewer Replacement**

**Dept. Priority:** 94

**Description:** This project consists of replacing approximately 1,138 feet of 8-inch mainline sewer composed of PVC, vitrified clay, and cast iron, between Cora Avenue and Fenton Avenue, south of Harrison Avenue. This project is located in the Westwood neighborhood of the City of Cincinnati.

**Purpose:** This project will replace an 8-inch sanitary sewer installed in 1924 that is aging and deteriorating. Portions of the pipe are deformed and broken and others have partially collapsed. The sewer is also damaged at the point of connection for many of the service laterals.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		90,600						\$90,600
Land		98,900						\$98,900
Construction				518,000				\$518,000
Total		189,500		518,000				\$707,500
Estimated Personnel Cost								\$0

**North Avondale Basin Study**

**Dept. Priority:** 95

**Description:** This project will study the North Avondale basin which drains to CSO 482 and CSO 487. The study will review models and look into feasibility of partial separation of storm and sanitary. This project is in the North Avondale neighborhood of the City of Cincinnati.

**Purpose:** The North Avondale basin sees frequent surcharging and water in basement claims. A basin study will look into existing conditions and help complete active projects and long term planning by possibly separating some of the storm flow in order to develop the best long term solutions for projects in the basin.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		698,000						\$698,000
Total		698,000						\$698,000
Estimated Personnel Cost								\$0

**German Cemetery Sewer Replacement**

**Dept. Priority:** 96

**Description:** This project will rehab 1,100 feet of failing 12, 18, 22, and 24-inch combined sewer beginning at the north terminus of Mentor Street and continuing northeast towards Gilbert Avenue. This work will involve replacement of some sewer sections and lining of other segments. This project is in the Walnut Hills neighborhood of the City of Cincinnati.

**Purpose:** This project will rehab a failing combined sewer and prevent further deterioration in other sections. This project is needed to prevent total failure of the sewer which would result in sewage backups in homes, a cemetery, or the public right of way.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		80,500						\$80,500
Land		111,000						\$111,000
Construction				460,400				\$460,400
Total		191,500		460,400				\$651,900
Estimated Personnel Cost								\$0

**Benson St. Sewer Replacement**

**Dept. Priority:** 97

**Description:** This project will replace and upsize approximately 4,100 feet of sewer, varying in size from 12-inches to 30-inches, from the Mill Creek Interceptor sewer to SSO 1001. This project is located in the City of Reading.

**Purpose:** The gravity sewer main along Benson Street from the Mill Creek interceptor sewer to the intersection with Hill Street currently experiences sewer main overloading at the intersection with Reading Road, encompasses SSO 1001, and provides service to several parcels of developable land in the vicinity. This project will address the sewer main overloading in this area, eliminate SSO 1001, and provide capacity to enable development within the sewershed. Planning and Design of this project was accomplished using the WWIP Urgent Capacity allowance (Project ID 10190209)

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		175,000						\$175,000
Construction		2,684,000						\$2,684,000
Total		2,859,000						\$2,859,000
Estimated Personnel Cost								\$0

**Badgeley RTC Reloc and Grit Pit**

**Dept. Priority:** 98

**Description:** This project will relocate CSO 125 and portions of the real time controls outside of the proposed Colerain Avenue roadway by providing the following: 1) CSO Regulator, 2) RTC Access Manhole, 3) Level sensors, 4) Sluice Gate, 5) New underflow sewer from the relocated CSO to the West Fork Channel Interceptor sewer, and 6) a new grit chamber. This project is located approximately 240 feet south of the intersection of Colerain and Jerome Avenues in the Northside neighborhood of the City of Cincinnati.

**Purpose:** This project will relocate CSO 125 and the real time controls access manhole out of the proposed roadway of the ODOT I-74 improvement project in this area. MSD has also identified the need for a grit pit at the facility in order to protect the facility. The grit chamber will be incorporated into the design of the facility relocation. This project is needed in order to maintain operation of the real time control facility at CSO 125 by providing adequate access for proper maintenance and inspection.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		1,873,000						\$1,873,000
Total		1,873,000						\$1,873,000
Estimated Personnel Cost								\$0

**Macauley St. Sewer Replacement**

**Dept. Priority:** 99

**Description:** This project will replace 460' of 24-inch sewer that is badly deteriorated with serious structural problems. This project will also install two new manholes and rehab an existing manhole. This project is located in the Mt. Auburn neighborhood of the City of Cincinnati.

**Purpose:** This project will replace a 24-inch brick combined sewer that was installed in 1908 and has reached the end of its useful life. This segment of sewer is badly deteriorated and has serious structural problems. It has caused no backups or overflows but it is a significant risk due to its depth of 40 feet.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		65,700						\$65,700
Land		35,000						\$35,000
Construction				310,100				\$310,100
Total		100,700		310,100				\$410,800
Estimated Personnel Cost								\$0

**Mt. Airy Forest Sewer Replacement**

**Dept. Priority:** 101

**Description:** This project will replace and upsize approximately 10,000 linear feet of existing 12-inch sewer. Detailed planning and design will consider alternate alignments to minimize impacts to the park, however the Fact Sheet cost estimate has been based on replacement and upsizing in the original alignment. This project is located in the Westwood neighborhood of Cincinnati.

**Purpose:** This project proposes to replace numerous segments of sanitary interceptor sewer within Mt. Airy Forest Park. These segments are undersized and in need of continued maintenance and are not candidates for lining. Failure to address this failing sewer could result in collapse and sewage discharges to the park.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		3,527,000						\$3,527,000
Total		3,527,000						\$3,527,000
Estimated Personnel Cost								\$0

**Diehl Road Sewer Replacement**

**Dept. Priority:** 102

**Description:** The project will replace approximately 2,000 feet of existing sewer which serves the Mt. Airy Family and Jobs Center. The project is located within the Mt. Airy Forest, parallel to I-74, approximately 1 mile northwest of the Montana Avenue exit. This project is in the Westwood neighborhood of the City of Cincinnati.

**Purpose:** The original sewer alignment was subject to overflow during the construction of I-74 in the 1970's. The overflow resulted in soil movement and subsequent damage to the sewer. In 1999, MSD performed an emergency sewer repair which has temporarily repaired the sewer. This project will design a more permanent solution along a similar alignment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		630,300						\$630,300
Total		630,300						\$630,300
Estimated Personnel Cost								\$0

**Shasta Place Sewer Replacement**

**Dept. Priority:** 103

**Description:** This project proposes to replace approximately 552 linear feet of exiting 12-inch combined sewer with new 12-inch conduit within the same alignment as the existing sewer. The project is located in the Westwood neighborhood of the City of Cincinnati. It is approximately 162 feet south of Shasta Place and 263 feet west of Homestead Place.

**Purpose:** The existing 12-inch combined sewer, installed in 1916, is deteriorated resulting in multiple fractures and buckling.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		227,600						\$227,600
Total		227,600						\$227,600
Estimated Personnel Cost								\$0

**Lynnehaven Drive Sewer Replacement**

**Dept. Priority:** 105

**Description:** Sewer sections at the end of Lynnehaven Drive between manholes 44810006 and 44810020 require replacement due to extensive buckling and fracturing of existing pipe. Even with recent advancements in lining technologies, the two pipe sections are not lining candidates. The project is located within the East Branch Mill Creek basin in Amberley Village.

**Purpose:** This project proposes replacement of two sewer sections serving 21 customers due to extensive buckling and fracturing of the existing pipe. Continued deterioration of the sewer will eventually lead to collapse, resulting in negative impacts to the existing level of service and to the local environment through potential discharges.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		145,900						\$145,900
Total		145,900						\$145,900
Estimated Personnel Cost								\$0

**MCWWTP Raw Sewage PS Upgrade**

**Dept. Priority:** 106

**Description:** This project will replace or rehabilitate the north station pumps and motors, rehabilitate influent north station gate valves, install automatic actuators for the north station discharge valves, rehabilitate concrete in the influent wet well, rehabilitate isolation gates, rehabilitate the control room and provide safety railing and emergency exit lighting. This project is in the Lower Price Hill neighborhood of the City of Cincinnati.

**Purpose:** The raw sewage pump station is a critical facility for the waste water treatment system. Some components of the station are original to the 1959 construction and require replacement or major rehabilitation. The station initiates treatment by delivering waste water to the plant and thus unit failure could result in significant loss of treatment capacity and pose serious environmental and health threats.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,854,300						\$1,854,300
Construction		1,566,300	7,944,200					\$9,510,500
Total		3,420,600	7,944,200					\$11,364,800
Estimated Personnel Cost								\$0

**SSO 603 and 704 Improvements**

**Dept. Priority:** 109

**Description:** This project is located near a stream south of Trebor Drive in Sycamore Township. This project will replace 6000 feet of 15-inch and 18-inch sewer with 21-inch through 36-inch sewer in order to increase capacity and eliminate SSO's 603 and 704.

**Purpose:** The purpose of this project is to improve two SSO's. SSO 603 is active about 9 times per year, and SSO 704 is active about 8 times per year.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		3,824,400						\$3,824,400
Total		3,824,400						\$3,824,400
Estimated Personnel Cost								\$0

**MCWWTP Anaerobic Digester Conv**

**Dept. Priority:** 110

**Description:** This project will eliminate the anaerobic digestion process, convert two (2) digesters to mixing/holding tanks, demolish ten (10) digesters and five (5) control rooms, and expand sludge feed wells to provide thickened sludge (undigested) for incineration. This project also includes improvements on HVAC, odor control, modifications to process piping, and appropriate controls to provide sludge feed to new Fluid Bed Incinerators (FBI). The project is located in the Lower Price Hill neighborhood of the City of Cincinnati.

**Purpose:** This project will convert two digesters for mixing primary and secondary thickened sludge. The mixing /Holding tanks will have solid fixed covers. The remaining 10 digestors will be cleaned, the floating covers removed and the structure demolished to ensure no sewage solids or gases can be trapped that allow a hazardous condition. The dewatering sludge feed wells will be expanded and a new PLC/I and C system will control sludge feed process.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		373,100						\$373,100
Construction		18,430,000						\$18,430,000
Total		18,803,100						\$18,803,100
Estimated Personnel Cost								\$0

**Ardmore Ave. Sewer Replacement**

**Dept. Priority:** 111

**Description:** This project will abandon approximately 920 feet of 24-inch combined sewer from MH-36701023 to MH-36708029, and propose a new 30-inch conduit from MH-36701023 to MH-36708029 on Ardmore Ave. to Mitchell Ave. This project is located in the North Avondale neighborhood of the City of Cincinnati.

**Purpose:** The Ex. 24" public sewer is cracked, fractured and partially collapsed. The sewer is currently located underneath several homes and needs to be relocated.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		1,470,200						\$1,470,200
Total		1,470,200						\$1,470,200
Estimated Personnel Cost								\$0

**Wilder Avenue Sewer Replacement**

**Dept. Priority:** 112

**Description:** This project will rehabilitate 549 feet of existing stone combined sewer. This project is located on private property in the Lower Price Hill neighborhood of the City of Cincinnati. The project crosses Wilder Avenue and ends in State Avenue.

**Purpose:** The purpose of this project is to extend the service life of an existing sewer and reduce maintenance costs.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		238,000						\$238,000
Total		238,000						\$238,000
Estimated Personnel Cost								\$0

**Beckman Pump Station Elimination**

**Dept. Priority:** 118

**Description:** This project will eliminate the Beckman Pump Station by installing approximately 307 feet of 8-inch sewer. This pump station is located at the terminus of Wycliffe Rd. in Anderson Township.

**Purpose:** This project will eliminate the Beckman Avenue Pump Station. The Dry Run Sewer currently being constructed will make eliminating this pump station feasible. The cost of eliminating this pump station is less than the one hundred year net present value of a gravity elimination sewer.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		79,700						\$79,700
Land		22,100						\$22,100
Construction				316,400				\$316,400
Total		101,800		316,400				\$418,200
Estimated Personnel Cost								\$0

**LMWWTP-Four Mile PS Improv**

**Dept. Priority:** 119

**Description:** The current equipment does not provide the level of reliability needed to operate the process efficiently. The influent gates have been flooded a number of times and they leak. Wet well cleaning will recover lost storage capacity as well as remove material that may damage pumps. This project includes: 1. Replace two influent gates, 2. Replace one discharge header isolation gate, 3. Repack ten pump valves, 4. Repack two main header valves, 5. Add operators to two main header valves, 6. Add and maintain process control signals, as needed, 7. Add process control logic as needed to monitor and operate valves remotely.

**Purpose:** The wastewater treatment plant must maintain its influent structure in order to treat incoming wastewater. Part of maintaining this asset is to manage flow into the plant. In order to do that, influent gates must operate properly. Failure to maintain our assets may result in Consent Decree stipulated penalties.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		86,400						\$86,400
Construction		1,949,400						\$1,949,400
Total		2,035,800						\$2,035,800
Estimated Personnel Cost								\$0

**Moeller Avenue Sewer Replacement**

**Dept. Priority:** 120

**Description:** This project is located on Moeller Avenue, Drex Avenue, and Fenwick Avenue in Norwood. This project consists of installation of 693 feet of 8-inch sanitary sewer and abandonment of an existing sewer that passes beneath 3 houses.

**Purpose:** The purpose of this project is to replace an 8" deteriorated sewer in a new alignment to reduce maintenance costs.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		12,500						\$12,500
Construction		977,300						\$977,300
Total		989,800						\$989,800
Estimated Personnel Cost								\$0

**Fairfax Avenue Sewer Replacement**

**Dept. Priority:** 121

**Description:** This project is to construct about 560 feet of 18-inch sewer and abandon an existing deteriorated sewer. This project is located near the intersection of Fairfax Avenue and Wold Avenue in the Cincinnati neighborhood of Evanston.

**Purpose:** A segment of 18 inch combined sewer from manhole 37602003 to manhole 37602005 needs to be replaced. The segment has deteriorated to the point of collapse. The segment has been evaluated by the WWC lining group and is not a lining candidate.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		333,500						\$333,500
Total		333,500						\$333,500
Estimated Personnel Cost								\$0

**Land Acquisition**

**Dept. Priority:** 123

**Description:** This project is intended to result in the purchase of property in MSD's service areas to obtain permanent easements that will allow MSD to locate, provide access, properly operate, maintain sewer infrastructure assets to provide level of service to our rate payers, Phase 1 and 2 appraisals, and necessary investigations. This effort will occur in various locations throughout the MSD service area.

**Purpose:** This project will purchase property necessary for permanent easements for new assets, Phase 1 and 2 appraisals, and necessary investigations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land		1,500,000	1,500,000	1,500,000	1,500,000			\$6,000,000
Total		1,500,000	1,500,000	1,500,000	1,500,000			\$6,000,000
Estimated Personnel Cost								\$0

**Emergency Sewer Repairs 2011**

**Dept. Priority:** 124

**Description:** Emergency sewer system repairs are completed throughout the entire District using competitively bid as-needed sewer repair contracts. This project allows MSD to quickly and efficiently restore and maintain interrupted service while mitigating the risk of additional damages or losses.

**Purpose:** This project will allow MSDGC to quickly respond to sudden, unexpected sewer system failures which may threaten the public health, welfare, or safety. Conditions that warrant emergency sewer repairs include cave-ins, structurally failed sewers, manholes or building sewers, sewer backups into private property, sewer overflows that may violate permits and regulations, and imminent danger to structures or real property.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		150,000						\$150,000
Construction		8,000,000						\$8,000,000
Total		8,150,000						\$8,150,000
Estimated Personnel Cost								\$0

**SCADA System Installs and Upgrades**

**Dept. Priority:** 129

**Description:** This project will install SCADA system for monitoring and control of variety of wastewater treatment processes. SCADA installations must be routinely upgraded and reviewed. SCADA improvements will help reduce permit exceedances by making adjustment or alarming situations before they result in a problem. An assessment of the current SCADA system was reviewed by Consultants in June 2007. Construction Costs for this project include \$1,668,600 for SCADA configuration costs, \$250,000 for existing equipment upgrade, and \$650,000 for PandID drawings for all treatment plants except Sycamore.

**Purpose:** The purpose of this project is to upgrade the existing SCADA system at each treatment plant and new installations where it is non-existent. Also, the scope will include the electrical and control upgrades and removal of existing obsolete equipment. SCADA is a tool that MSD uses to comply with operating permit, as well as, monitor performance.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,451,500						\$1,451,500
Construction		10,351,100						\$10,351,100
Total		11,802,600						\$11,802,600
Estimated Personnel Cost								\$0

**CIP Project Planning 2011**

**Dept. Priority:** 130

**Description:** This project will fund the necessary planning resources for capital projects.

**Purpose:** This project will provide capital funding to support planning CIP projects. Capital funding for the planning of these types of projects will allow all costs to be tracked against the specific project effort and will serve to reduce MSD operating expenses accordingly.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		2,500,000						\$2,500,000
Total		2,500,000						\$2,500,000
Estimated Personnel Cost								\$0

**WWT Roofing and Paving Rehab/Replmt.**

**Dept. Priority:** 135

**Description:** The WWT Division is responsible for structures throughout MSD service area. In 2006, a study assessed the roofs and roads at WWT Plants for the next 20 years.

**Purpose:** The purpose of the assessment was to provide a guideline which MSD can follow to maintain its infrastructure in an organized fashion. The scope for this project is to request an adjusted annual cost for the next 20 years.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		9,200	9,200	9,200	9,200	9,200	213,300	\$259,300
Construction		200,000	200,000	200,000	200,000	200,000		\$1,000,000
Total		209,200	209,200	209,200	209,200	209,200	213,300	\$1,259,300
Estimated Personnel Cost								\$0

**Asset Rehab and Replacement Plan**

**Dept. Priority:** 136

**Description:** This CIP will enable MSD to develop a more long-term strategic approach in the scheduling of the rehabilitation and replacement of its assets. This approach will be based upon levels of service, risk, and affordability (cash flows). This will be applied to assets throughout the MSD service area.

**Purpose:** The development of a long-range asset rehabilitation and replacement plan is needed to ensure proper prioritization of Asset Management Capital Improvement Projects in conjunction with the Wet Weather Improvement Program. This effort will serve as a basis from which to rank and schedule projects in an environment when capital projects are competing for funding with the Consent Decree mandated projects scheduled in the recently approved Wet Weather Improvement Program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,000,000	500,000	500,000	500,000			\$2,500,000
Total		1,000,000	500,000	500,000	500,000			\$2,500,000
Estimated Personnel Cost								\$0

**Reliability Services**

**Dept. Priority:** 137

**Description:** This project will develop a maintenance strategy prior to startup and commissioning for new assets and formulate a detailed maintenance strategy for some existing assets. The implementation of this strategy will occur at all phases of the CIP process (planning, design, and construction) and also be applied on some existing WWT assets/processes. This will be applied to assets located throughout the MSD Service Area.

**Purpose:** This project will develop a maintenance strategy that results in improved maintenance, lower life cycle costs, improved reliability, and a reduction of failures early in asset life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		655,000						\$655,000
Construction		693,500						\$693,500
Total		1,348,500						\$1,348,500
Estimated Personnel Cost								\$0

**Flow Monitoring and Rain Gauges 2011**

**Dept. Priority:** 140

**Description:** MSD plans wastewater collection and treatment projects throughout its district. Flow monitors are installed to support this planning process by measuring actual system performance while providing the necessary data to meet mandated reporting requirements. Note: This includes the monitoring of sustainable infrastructure.

**Purpose:** This project will provide sewer flow monitoring and rain gauge services to be used to support MSD's long-range planning needs, meet MSD's SSO and CSO monitoring requirements, and perform CIP post-construction monitoring. Flow monitoring is used to assist in the modeling, planning, and design process. Flow monitoring is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		3,800,000						\$3,800,000
Total		3,800,000						\$3,800,000
Estimated Personnel Cost								\$0

**Flow Modeling 2011**

**Dept. Priority:** 145

**Description:** MSD plans and designs wastewater collection and treatment projects throughout its district through the use of computer models. Note: This includes the modeling of sustainable infrastructure.

**Purpose:** This project will provide sewer modeling services to be used to support MSD's long-range planning needs, and to meet MSD's SSO and CSO monitoring requirements. Sewer modeling is used to assist in the planning and design process and is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		2,100,000						\$2,100,000
Total		2,100,000						\$2,100,000
Estimated Personnel Cost								\$0

**High Risk Asset Renewal 2011**

**Dept. Priority:** 150

**Description:** MSDGC evaluates assets throughout the entire District using standardized condition assessment tools and methodologies. Defective assets, or defective portions of assets that may impair the system's ability to meet defined levels of service are identified, prioritized based upon comprehensive risk, and renewed using the most cost effective methodology to extend the asset's useful life.

**Purpose:** This project will allow MSDGC to replace entire high risk assets or portions of system assets that are currently unable, or anticipated to be unable to meet their defined level of service. This project is necessary to cost effectively extend asset life while protecting and preserving public health and the environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		150,000						\$150,000
Construction		5,000,000						\$5,000,000
Total		5,150,000						\$5,150,000
Estimated Personnel Cost								\$0

**MSD-DUKE Sewer Televising Partnership**

**Dept. Priority:** 155

**Description:** The estimated annual scope of work will include the inspection, GPS location, and as-needed cleaning of approximately 160 miles of main public sewer and 650 miles of building sewer within MSD's service area. Under a proposed partnership, MSD will administer the contracted sewer inspection and cleaning work in conjunction with Duke's gas main installation contractors, and will share the cost of these inspection services with Duke. The proposed monetary value of the CIP project represents a best current estimate of MSD's annual portion of the cost-sharing with Duke to support this program. This work will occur throughout the MSD service area.

**Purpose:** Duke Energy is replacing the majority of its natural gas lines and services throughout Hamilton County. Their method of installation uses the trenchless technology of directional drilling. Use of this technology may unknowingly breach MSD sewers and privately owned sewer laterals. MSD is negotiating with Duke Energy, for a public/private cost-sharing partnership to perform pre and post gas main installation televising of the public sewers and private laterals to identify conflicts.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		500,000	500,000	500,000	500,000			\$2,000,000
Construction		9,500,000	9,500,000	9,500,000	9,500,000			\$38,000,000
Total		10,000,000	10,000,000	10,000,000	10,000,000			\$40,000,000
Estimated Personnel Cost								\$0

**Value Engineering**

**Dept. Priority:** 157

**Description:** Value Engineering is a systematic approach to manage value through innovative change. It will confirm design direction and guide in making difficult choices.

**Purpose:** Value Engineering will identify and creatively solve problems. It is an organized process that achieves the best balance among function, cost and performance. This process offers alternatives while assuring that quality, reliability, life cycle costs, and other critical factors are met.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		375,000	375,000	375,000	375,000			\$1,500,000
Total		375,000	375,000	375,000	375,000			\$1,500,000
Estimated Personnel Cost								\$0

**Indef. Delivery/Indef. Quantity 2011**

**Dept. Priority:** 163

**Description:** This project will provide funding to address various customer concerns after MSD projects are complete. This funding will be used to address concerns on projects throughout the Hamilton County area.

**Purpose:** After individual construction projects have been completed, a situation may arise that needs additional attention that is not included in the one year warranty. These projects will resolve these concerns.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		20,000						\$20,000
Construction		100,000						\$100,000
Total		120,000						\$120,000
Estimated Personnel Cost								\$0

**Ludlow and Lafayette Parallel Sewer**

**Dept. Priority:** 12

**Description:** The Wet Weather Improvement Program stated that SSO 645 and 225A overflows and surcharges start at a 6-month design storm level and that these overflows occur due to backup from downstream combined sewers. The June 2009 submittal project description calls for the construction of a new parallel sewer to follow original alignment (1,700 feet of 15-inch sewer). MSD will examine this and other alternatives to address this problem. This project is in the Clifton neighborhood of the City of Cincinnati.

**Purpose:** This project will address overflows and surcharging that occurs at SSO's 645 and 225A. This project is part of the Wet Weather Improvement Plan, Upper Northside Bundle and was included in the June 2009 approved plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			126,100					\$126,100
Construction						808,600		\$808,600
Total			126,100			808,600		\$934,700
Estimated Personnel Cost								\$0

**SSO 700 Storage Facility**

**Dept. Priority:** 13

**Description:** This project will install an additional 24 MGD storage facility at the SSO 700 treatment facility.

**Purpose:** This project will increase storage capacity at the SSO 700 treatment facility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			5,639,200		13,267,100			\$18,906,300
Total			5,639,200		13,267,100			\$18,906,300
Estimated Personnel Cost								\$0

**CSO 512 Improvements**

**Dept. Priority:** 15

**Description:** This project will improve CSO 512.

**Purpose:** This project will make improvements to CSO 512 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			20,000		45,300			\$65,300
Total			20,000		45,300			\$65,300
Estimated Personnel Cost								\$0

**CSO 513 Sewer Separation**

**Dept. Priority:** 16

**Description:** This project will reduce overflows from CSO 513 by removing storm water from the upstream combined sewers that are tributary to CSO 513.

**Purpose:** This project will separate sewers to reduce overflows at CSO 513 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			198,900		454,200			\$653,100
Total			198,900		454,200			\$653,100
Estimated Personnel Cost								\$0

**CSO 514 Sewer Separation**

**Dept. Priority:** 17

**Description:** This project will remove storm flow from combined sewers tributary to CSO 514 to reduce overflows.

**Purpose:** This project will separate sewers to reduce overflows at CSO 514 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			105,300		239,000			\$344,300
Total			105,300		239,000			\$344,300
Estimated Personnel Cost								\$0

**CSO 179 Sewer Separation**

**Dept. Priority:** 26

**Description:** The June 2009 WWIP approved plan project description calls for partial separation to address the overflows at CSO 179. MSD will examine this and other alternatives to address this problem in order to achieve the required CSO wet weather control. This project is in the Clifton neighborhood of the City of Cincinnati.

**Purpose:** This project will address combined sewer overflows at CSO 179 . This project is part of the Wet Weather Improvement Plan, Upper Northside Bundle and was included in the June 2009 approved plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			198,400					\$198,400
Construction						1,489,400		\$1,489,400
Total			198,400			1,489,400		\$1,687,800
Estimated Personnel Cost								\$0

**Westchase Park Pump Station Elim**

**Dept. Priority:** 79

**Description:** This project consists of the construction of approximately 650 feet of 12-inch gravity sewer that will eliminate the Westchase Park Pump Station. Elimination of the Westchase Park Pump station will provide additional capacity at the Hampton Pointe Pump Station to allow activation of the existing dry line sewers serving the Glens of Hutchinson and Greenwald's Oak Hollow subdivisions. This project is intended to be in conjunction with the Hamilton County Engineer's project to realign the intersection of Wesselman and Rybolt Roads. This project is located in Green Township.

**Purpose:** This project will eliminate the Westchase Park Pump Station. Elimination of this pump station will result in operating cost savings.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Land			9,000					\$9,000
Construction			313,700					\$313,700
Total			322,700					\$322,700
Estimated Personnel Cost								\$0

**Barringtonhls BLKF GVOLZ/KAK**

**Dept. Priority:** 82

**Description:** This project is located in and around a stream valley north of Pickway Drive in Green Township. This project will eliminate 4 existing pump stations and one proposed pump station by installation of 5,418 feet of 8, 12, and 15-inch gravity sewer and installation of one new pump station, force main and new access driveway. The new pump station will be located near the existing Kirkridge Acres pump station. This project has changed in scope, being more cost-effective than the version in the 2007 CIP.

**Purpose:** The purpose of this project is to eliminate 4 existing pump stations, two of which are currently under emergency operation, and one proposed pump station, along with associated operation and maintenance costs.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			5,004,700					\$5,004,700
Total			5,004,700					\$5,004,700
Estimated Personnel Cost								\$0

**Millbrook [#]2 PS Upgrade**

**Dept. Priority:** 100

**Description:** This project consists of replacing/upgrading the existing Millbrook 2 Pump Station, and upsizing and relocating a new force main. The project is located on Woodfield Drive in Springfield Township.

**Purpose:** The project will replace the deteriorated, aging and undersized Millbrook 2 Pump Station. This project will also provide secondary power for the pump station.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			1,570,200					\$1,570,200
Total			1,570,200					\$1,570,200
Estimated Personnel Cost								\$0

**Fairmount Avenue Sewer Replacement**

**Dept. Priority:** 104

**Description:** This project proposes to replace approximately 1,373 linear feet of 12, 15, and 18-inch existing combined sewer with new 12-inch and 15-inch conduit within the same alignment as the existing sewer. This project is located at the ends of Hansford Pl. and Knorr Ave. off of Harrison Ave. in the South Fairmount neighborhood of the City of Cincinnati.

**Purpose:** The existing 12-inch , 15-inch and 18-inch combined sewer, installed in 1928, is deteriorated which has resulted in multiple fractures throughout the pipe.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			592,800					\$592,800
Total			592,800					\$592,800
Estimated Personnel Cost								\$0

**E. Mitchell Avenue Sewer Replacement**

**Dept. Priority:** 108

**Description:** This project will replace a deteriorated 33-inch segmented clay tile sewer and abandon approximately 670 feet of severely deteriorated 12-inch and 24-inch sewer running under 806 E. Mitchell Avenue in the Avondale neighborhood of the City of Cincinnati.

**Purpose:** The original project scope was to replace 202 feet of deteriorated 33-inch segmented clay tile sewer in E. Mitchell Ave, but the scope of this project has expanded to include the abandonment of 12-inch and 24-inch sewers that connect to the downstream manhole of the original project. The scope was expanded because abandonment of the 12-inch and 24-inch sewers would change the sizing of proposed sewers and construction activities would take place in adjacent parcels.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			1,065,400					\$1,065,400
Total			1,065,400					\$1,065,400
Estimated Personnel Cost								\$0

**Wasson Road Sewer Replacement**

**Dept. Priority:** 116

**Description:** The project proposes to replace and relocate 115 feet of 24-inch vitrified clay sewer through lands of HN 3700 and 3712 Woodland Avenue. Sewer will be relocated so to be clear of existing structures. This project is located in the Oakley neighborhood of the City of Cincinnati.

**Purpose:** The existing 24-inch combined sewer is in poor conditions, and cannot be monitored. The 103-year old sewer, has a curvilinear alignment which takes it beneath 2 structures.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			338,300					\$338,300
Total			338,300					\$338,300
Estimated Personnel Cost								\$0

**Beverly Hill Drive Sewer Replacement**

**Dept. Priority:** 117

**Description:** The project proposed to replace 241 feet of 24-inch combined sewer with new 24-inch combined sewer in the current alignment as the existing sewer. The project is located to the east of the public sidewalk running between the end of Salisbury Drive and Beverly Hill Drive in the Mt. Lookout neighborhood of the City of Cincinnati.

**Purpose:** The existing 24-inch combined sewer running along the east side of Salisbury Drive has deteriorated resulting in multiple fractures throughout the pipe. The sewer was installed in 1928 and has exceeded its anticipated life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			274,700					\$274,700
Total			274,700					\$274,700
Estimated Personnel Cost								\$0

**Linwood Avenue Sewer Replacement**

**Dept. Priority:** 122

**Description:** This project is located at 3530 through 3552 Linwood Avenue in the Cincinnati neighborhood of Mount Lookout. This project will replace 800 feet of existing deteriorated sewer, partly in the same alignment and partly in a new alignment.

**Purpose:** The purpose of this project is to replace a deteriorated sewer in order to reduce potential WIBs and reduce maintenance costs.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			801,100					\$801,100
Total			801,100					\$801,100
Estimated Personnel Cost								\$0

**Emergency Sewer Repairs 2012**

**Dept. Priority:** 125

**Description:** Emergency sewer system repairs are completed throughout the entire District using competitively bid as-needed sewer repair contracts. This project allows MSD to quickly and efficiently restore and maintain interrupted service while mitigating the risk of additional damages or losses.

**Purpose:** This project will allow MSDGC to quickly respond to sudden, unexpected sewer system failures which may threaten the public health, welfare, or safety. Conditions that warrant emergency sewer repairs include cave-ins, structurally failed sewers, manholes or building sewers, sewer backups into private property, sewer overflows that may violate permits and regulations, and imminent danger to structures or real property.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			150,000					\$150,000
Construction			8,000,000					\$8,000,000
Total			8,150,000					\$8,150,000
Estimated Personnel Cost								\$0

**CIP Project Planning 2012**

**Dept. Priority:** 131

**Description:** This project will fund the necessary planning resources for capital projects.

**Purpose:** This project will provide capital funding to support planning CIP projects. Capital funding for the planning of these types of projects will allow all costs to be tracked against the specific project effort and will serve to reduce MSD operating expenses accordingly.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			2,000,000					\$2,000,000
Total			2,000,000					\$2,000,000
Estimated Personnel Cost								\$0

**Remaining Asset Allowance 2012**

**Dept. Priority:** 138

**Description:** This project is a financial placeholder to ensure minimum required Asset Management project funding for the 2012 budget year.

**Purpose:** This project is a financial placeholder to ensure minimum Asset Management project funding for the 2012 budget year.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			9,673,700					\$9,673,700
Total			9,673,700					\$9,673,700
Estimated Personnel Cost								\$0

**Flow Monitoring and Rain Gauges 2012**

**Dept. Priority:** 141

**Description:** MSD plans wastewater collection and treatment projects throughout its district. Flow monitors are installed to support this planning process by measuring actual system performance while providing the necessary data to meet mandated reporting requirements. Note: This includes the monitoring of sustainable infrastructure.

**Purpose:** This project will provide sewer flow monitoring and rain gauge services to be used to support MSD's long-range planning needs, meet MSD's SSO and CSO monitoring requirements, and perform CIP post-construction monitoring. Flow monitoring is used to assist in the modeling, planning and design process. Flow monitoring is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			3,800,000					\$3,800,000
Total			3,800,000					\$3,800,000
Estimated Personnel Cost								\$0

**Flow Modeling 2012**

**Dept. Priority:** 146

**Description:** MSD plans and designs wastewater collection and treatment projects throughout its district through the use of computer models. Note: This includes the modeling of sustainable infrastructure.

**Purpose:** This project will provide sewer modeling services to be used to support MSD's long-range planning needs, and to meet MSD's SSO and CSO monitoring requirements. Sewer modeling is used to assist in the planning and design process and is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			2,100,000					\$2,100,000
Total			2,100,000					\$2,100,000
Estimated Personnel Cost								\$0

**High Risk System Asset Renewal 2012**

**Dept. Priority:** 151

**Description:** MSDGC evaluates assets throughout the entire District using standardized condition assessment tools and methodologies. Defective assets, or defective portions of assets that may impair the system's ability to meet defined levels of service are identified, prioritized based upon comprehensive risk, and renewed using the most cost effective methodology to extend the asset's useful life.

**Purpose:** This project will allow MSDGC to replace entire high risk assets or portions of system assets that are currently unable, or anticipated to be unable to meet their defined level of service. This project is necessary to cost effectively extend asset life while protecting and preserving public health and the environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			150,000					\$150,000
Construction			5,000,000					\$5,000,000
Total			5,150,000					\$5,150,000
Estimated Personnel Cost								\$0

**Indef. Delivery/Indef. Quantity 2012**

**Dept. Priority:** 164

**Description:** This project will provide funding to address various customer concerns after MSD projects are complete. This funding will be used to address concerns on projects throughout the Hamilton County area.

**Purpose:** After individual construction projects have been completed, a situation may arise that needs additional attention that is not included in the one year warranty. These projects will resolve these concerns.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			20,000					\$20,000
Construction			100,000					\$100,000
Total			120,000					\$120,000
Estimated Personnel Cost								\$0

**MuCrWWTP Ad New Belt Filter Press**

**Dept. Priority:** 4

**Description:** This project will increase the dewatering process capacity through construction of a new belt filter press and/or other means. The project will assure capacity to reliably process sludge produced by the expanded WWTP treating up to 35 MGD. This project is in the Saylor Park neighborhood of the City of Cincinnati.

**Purpose:** This project will increase the sludge dewatering capacity of the Muddy Creek WWTP. This Phase 1 Wet Weather Improvement Plan project is part of the Muddy Creek WWTP Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				1,334,000				\$1,334,000
Total				1,334,000				\$1,334,000
Estimated Personnel Cost								\$0

**MuCrWWTP Grit Replacement**

**Dept. Priority:** 5

**Description:** This project will increase the grit removal capacity at the Muddy Creek WWTP to assure capacity to treat peak flows up to 35 MGD. This project will examine the entire grit process and implement measures to improve the process in order to assist the plant in achieving the desired level of service. This is in the Saylor Park neighborhood of the City of Cincinnati.

**Purpose:** This project will provide more reliably to treat peak flows up to 35 MGD for extended periods of time at the Muddy Creek WWTP through improvements to the grit removal system. This Phase 1 Wet Weather Improvement Plan project is part of the Muddy Creek WWTP Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				4,747,800				\$4,747,800
Total				4,747,800				\$4,747,800
Estimated Personnel Cost								\$0

**SSO 1048 Conveyance Sewer**

**Dept. Priority:** 6

**Description:** This project will replace approximately 4115 feet of 18-27-Inch sewer and tunnel 275 feet of 18-24-Inch sewer.

**Purpose:** This project in conjunction with project 10140020 will eliminate SSO 1048. This project in the June 2009 WWIP Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				190,800				\$190,800
Total				190,800				\$190,800
Estimated Personnel Cost								\$0

**SSO 1048 CONVEYANCE SEWER PHASE 2**

**Dept. Priority:** 7

**Description:** This project will replace approximately 4256 feet of 30-36-Inch sewer to eliminate SSO 1048.

**Purpose:** This project in conjunction with project 10140000 will eliminate SSO 1048. This project is in the June 2009 WWIP Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				251,900				\$251,900
Total				251,900				\$251,900
Estimated Personnel Cost								\$0

**SSO 587 Conveyance Sewer**

**Dept. Priority:** 8

**Description:** This project will replace approximately 4235 feet of 15-24 Inch sewer to eliminate SSO 587.

**Purpose:** This project will eliminate SSO 587. This project is in the June 2009 WWIP Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				128,400				\$128,400
Total				128,400				\$128,400
Estimated Personnel Cost								\$0

**SSO 700 Influent Trunk Sewer**

**Dept. Priority:** 9

**Description:** This project will install approximately 24,929 feet of 30-66 Inch sewer and tunnel an additional 6250 feet of 30-78 Inch sewer. This will convey all flow from upstream SSOs 1048 and 587 to the SSO 700 treatment facility.

**Purpose:** This project will upsize existing trunk line sewers to convey upstream flows from SSO 1048 and SSO 587 to the SSO 700 Treatment Facility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				3,441,800				\$3,441,800
Total				3,441,800				\$3,441,800
Estimated Personnel Cost								\$0

**Lockland Sewer Separation**

**Dept. Priority:** 10

**Description:** This project will replace approximately 7900 feet of 12-24 Inch sewer to eliminate SSO 1045 and SSO 1010

**Purpose:** This project will eliminate SSO 1045 and 1010. This project is included in the June 2009 WWIP Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				256,800				\$256,800
Total				256,800				\$256,800
Estimated Personnel Cost								\$0

**Pleasant Run Sewer - Kem. To JG**

**Dept. Priority:** 11

**Description:** This project will replace approximately 4246 feet of 21-24 Inch sewer from Kemper Rd to John Gray Rd.

**Purpose:** This project will replace a portion of the Pleasant Run Interceptor to alleviate Water In Basement complaints

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				133,700				\$133,700
Total				133,700				\$133,700
Estimated Personnel Cost								\$0

**Blue Rock Rd Sewer Separation**

**Dept. Priority:** 18

**Description:** This project will minimize or eliminate CSO discharges associated with the Blue Rock Regulator, CSO 180, through the installation of separate sewers. The Blue Rock Regulator, CSO 180, is located approximately 200 feet west of the intersection of Blue Rock Road and Ranlyn Avenue in Green Township.

**Purpose:** This project will address combined sewer overflows at CSO 180, Blue Rock Regulator through sewer separation efforts. This project is included in the Wet Weather Improvement Program and is included in the Tributary to Winton Lake Lower Bundle.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				1,952,000				\$1,952,000
Total				1,952,000				\$1,952,000
Estimated Personnel Cost								\$0

**CSO 226 Improvements**

**Dept. Priority:** 19

**Description:** This project will make improvements to CSO 226. This project is in Arlington Heights.

**Purpose:** This project will make improvements to CSO 226 as mandated by the approved Wet Weather Plan

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				20,700		46,200		\$66,900
Total				20,700		46,200		\$66,900
Estimated Personnel Cost								\$0

**CSO 559 Improvements**

**Dept. Priority:** 20

**Description:** This project will make improvements to CSO 559

**Purpose:** This project will make improvements to CSO 559 as mandated by the approved Wet Weather Plan

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				20,700		46,200		\$66,900
Total				20,700		46,200		\$66,900
Estimated Personnel Cost								\$0

**CSO 515 Improvements**

**Dept. Priority:** 21

**Description:** This project will make improvements to CSO 515.

**Purpose:** This project will make improvements to CSO 515 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				20,700		47,900		\$68,600
Total				20,700		47,900		\$68,600
Estimated Personnel Cost								\$0

**CSO 516 Improvements**

**Dept. Priority:** 22

**Description:** This project will make improvements to CSO 516.

**Purpose:** This project will make improvements to CSO 516 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				20,700		48,300		\$69,000
Total				20,700		48,300		\$69,000
Estimated Personnel Cost								\$0

**CSO 538 Improvements**

**Dept. Priority:** 23

**Description:** This project will make improvements to CSO 538.

**Purpose:** This project will make improvements to CSO 538 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				20,700		46,200		\$66,900
Total				20,700		46,200		\$66,900
Estimated Personnel Cost								\$0

**CSO 539 Improvements**

**Dept. Priority:** 24

**Description:** This project will make improvements to CSO 539.

**Purpose:** This project will make improvements to CSO 539 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				20,700		46,200		\$66,900
Total				20,700		46,200		\$66,900
Estimated Personnel Cost								\$0

**CSO 562 Improvements**

**Dept. Priority:** 25

**Description:** This project will make improvements to CSO 562.

**Purpose:** This project will make improvements to CSO 562 as mandated by the approved Wet Weather Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				20,700		46,200		\$66,900
Total				20,700		46,200		\$66,900
Estimated Personnel Cost								\$0

**MCWWTP Auxillary Outfall Imprv.**

**Dept. Priority:** 30

**Description:** At certain Ohio River levels the Mill Creek WWTP cannot discharge and cannot treat up to its wet weather design flow of 430 MGD. This project will increase the capacity of the auxillary outfall to ensure wet weather treatment capacity of 430 MGD at all river levels and influent flows. This is in the Lower Price Hill neighborhood of Cincinnati.

**Purpose:** This project will permit reliable discharge of wet weather flows up to 430 MGD to the Mill Creek during high Ohio River stage conditions through improvements to the auxillary outfall. This Phase 1 Wet Weather Improvement Plan project is part of the Mill Creek WWTP Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				16,240,900				\$16,240,900
Total				16,240,900				\$16,240,900
Estimated Personnel Cost								\$0

**MCWWTP Secondary Bypass Weir**

**Dept. Priority:** 31

**Description:** This project will modify the secondary bypass weir elevation to achieve better control on how a secondary bypass to outfall 001 is managed. (Note: This project is related to Project [#] 10145500. Adding secondary bypass into the final effluent channel affects the channel hydraulics.). This is in the Lower Price Hill neighborhood of Cincinnati.

**Purpose:** This project will enhance secondary treatment and more reliably treat peak flows up to 240 MGD for extended periods of time at the Mill Creek WWTP through improvements to the secondary bypass weir. This Phase 1 Wet Weather Improvement Plan project is part of the Mill Creek WWTP Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				151,800				\$151,800
Total				151,800				\$151,800
Estimated Personnel Cost								\$0

**MCWWTP Addl. Primary Sludge Pumping**

**Dept. Priority:** 32

**Description:** This project will increase the primary sludge pumping capacity at the Mill Creek WWTP to assure capacity to provide primary settling for wet weather flows. This is in the Lower Price Hill neighborhood of the City of Cincinnati.

**Purpose:** This project will increase the primary sludge pumping capacity of the Mill Creek WWTP to transfer additional primary sludge produced during wet weather treatment. This Phase 1 Wet Weather Improvement Plan project is part of the Mill Creek WWTP Bundle and was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				1,408,500				\$1,408,500
Total				1,408,500				\$1,408,500
Estimated Personnel Cost								\$0

**Little Miami Four Mile PS Upgrade**

**Dept. Priority:** 36

**Description:** This project will upgrade the four mile pump station located at the Little Miami Wastewater Treatment Plant.

**Purpose:** This project is mandated to meet wet weather capacity at the Little Miami Wastewater Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				374,200				\$374,200
Total				374,200				\$374,200
Estimated Personnel Cost								\$0

**LMWWTP Pump Sta. Reconfig.**

**Dept. Priority:** 37

**Description:** This project will convert pump station from an influent pump station to a secondary bypass pump station by installing a new pump system with a capacity of 45 MGD. Flow will be re-routed to the Four Mile Pump Station. This project is located in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project is mandated for the Little Miami Treatment Plant to achieve the 100MGD treatment capacity by providing the ability to pump secondary treatment bypass during wet weather events and associated high river stages.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				319,500				\$319,500
Total				319,500				\$319,500
Estimated Personnel Cost								\$0

**LMWWTP Grit Station Upgrade**

**Dept. Priority:** 38

**Description:** This project will demolish existing detritors, provide three new vortex grit tanks and associated equipment, and construct building to house the pumps, cyclones, classifiers, dumpsters and conveyors for the vortex grit system.

**Purpose:** Vortex Grit tanks will increase the firm grit removal capacity from 82 MGD to 100 MGD and will improve this unit process.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				790,700				\$790,700
Total				790,700				\$790,700
Estimated Personnel Cost								\$0

**LMWWTP 4 Mile PS HYD Improv.**

**Dept. Priority:** 39

**Description:** This project will provide a partial flume to improve hydraulic improvement between the Four Mile Pump Station and the screen building. This project is located in the East End neighborhood of the City of Cincinnati

**Purpose:** This project is necessary for the Little Miami Treatment Plant to achieve 100 MGD wet weather flows as mandated.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				199,000				\$199,000
Total				199,000				\$199,000
Estimated Personnel Cost								\$0

**LMWWTP Prim to Sec Hyd Improv.**

**Dept. Priority:** 40

**Description:** This project will double the conveyance capacity of piping, modify secondary diversion structure, repipe primary effluent bypass to Little Miami Pump Station.

**Purpose:** This project provides necessary hydraulic improvements to convey 100MGD to secondary treatment and enables facility to bypass flows from secondary treatment during peak flow events and associated high river stages.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				183,100				\$183,100
Total				183,100				\$183,100
Estimated Personnel Cost								\$0

**LMWWTP Chem. Enhanced Prim Treat.**

**Dept. Priority:** 41

**Description:** This project will increase primary treatment capacity by adding chemical feed system, inclined plate settlers, and additional effluent weirs. It will also modify fine screen building for chemical storage including screen removal. This project is located at the Little Miami Wastewater Treatment Plant in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project will increase the firm capacity of primary treatment from 23 MGD to 55 MGD monthly average and from 46 MGD to 100 MGD peak flow.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				628,400				\$628,400
Total				628,400				\$628,400
Estimated Personnel Cost								\$0

**LMWWTP Secondary Trmt. Modifications**

**Dept. Priority:** 42

**Description:** This project will provide chemically enhanced treatment to final clarifiers, replace existing gates in secondary clarifier distribution channel, replace existing weirs and provide weir covers, replace chain and flight sludge collectors and replace activated sludge control valves. This project is located at the Little Miami Wastewater Treatment Plant in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project provides the necessary upgrades to optimize secondary treatment and provide reliability for average and peak flows.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				952,700				\$952,700
Total				952,700				\$952,700
Estimated Personnel Cost								\$0

**LMWWTP Chemical Feed Sys. Upgrades**

**Dept. Priority:** 44

**Description:** This project will demolish multiple hearth incinerator and expand hypochlorite feed system and storage or provide sodium hypochlorite generation facilities. This project is located at the Little Miami Treatment Plant in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project is required to provide sufficient hypochlorite storage and system capacity to meet Ten State Standards and upgrade facilities to meet all applicable building codes.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				377,300				\$377,300
Total				377,300				\$377,300
Estimated Personnel Cost								\$0

**LMWWTP Sludge Receiving Fac. Improv.**

**Dept. Priority:** 45

**Description:** This project will modify and upgrade piping and loading area to facilitate receiving and loading of dewatered sludge. This project is located at the Little Miami Treatment Plant in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project is required to facilitate loading of dewatered sludge in the event the incinerator is temporarily out of service.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				45,600				\$45,600
Total				45,600				\$45,600
Estimated Personnel Cost								\$0

**LMWWTP Dual Feed/Standby Power**

**Dept. Priority:** 46

**Description:** This project will provide dual feed power to the Little Miami Treatment Plant or provide back-up generators. This project is located in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project is required for firm capacity and to meet Ten State Standards

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				752,500				\$752,500
Total				752,500				\$752,500
Estimated Personnel Cost								\$0

**CSO 471 Grandin Rd Regulator Improvement**

**Dept. Priority:** 61

**Description:** This project will make regulator improvements to the Grandin Road Grating. Improvements such as screening and regulator control modifications for small regulators of existing high level control are suggested in the WWIP Project Capital Cost Summary Sheet. The existing CSO is located in the Linwood neighborhood of Cincinnati.

**Purpose:** This project will make improvements to CSO 471 in an effort to improve the performance. This project is included in the Wet Weather Improvement Program and is included in the Lower Little Miami River Bundle.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				290,000				\$290,000
Total				290,000				\$290,000
Estimated Personnel Cost								\$0

**CSO 470 Eastern Ave Sewer Separation**

**Dept. Priority:** 62

**Description:** This project will make improvements to CSO 470, Eastern Avenue Grating. The WWIP Project Capital Cost Summary Sheet assumes that approximately 1400 linear feet of storm sewer will need to be installed in order to separate the upstream combined sewers. This project is located in the Linwood neighborhood of Cincinnati. LOWER LITTLE MIAMI BUNDLE END CONSTRUCTION MILESTONE: 12/31/2015

**Purpose:** This project will address combined sewer overflows at CSO 470, Eastern Avenue Grating, through partial sewer separation and regulator improvement efforts. This project is included in the Wet Weather Improvement Program and is included in the Lower Little Miami River bundle.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				1,635,100				\$1,635,100
Total				1,635,100				\$1,635,100
Estimated Personnel Cost								\$0

**LMWWTP Wet Weather P.S.**

**Dept. Priority:** 64

**Description:** This project will construct a Pump Station with screening to convey 150 MGD to the Auxillary Outfall.

**Purpose:** This project is mandated by the Wet Weather Improvement Plan.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				3,570,400				\$3,570,400
Total				3,570,400				\$3,570,400
Estimated Personnel Cost								\$0

**LMWWTP 4 Mile Dry Weather Pumps**

**Dept. Priority:** 65

**Description:** This project will evaluate and replace existing dry weather pumps that have reached the end of their useful life. This will ensure long term reliability. This project is located in the East End neighborhood of the City of Cincinnati.

**Purpose:** This project is necessary to maintain the long term reliability of the Little Miami Treatment Plant

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				162,100				\$162,100
Total				162,100				\$162,100
Estimated Personnel Cost								\$0

**Ohio Avenue Sewer Replacement**

**Dept. Priority:** 88

**Description:** The project proposes to replace 185 feet of 6-inch vitrified clay sewer running along the east side of Ohio Avenue approximately 230 feet to the southwest of the intersection of Ohio Avenue and Clark Road in the City of Reading.

**Purpose:** The existing sewer has partially collapsed, making inspection and cleaning impossible. The sewer, originally constructed as part of the City of Reading sewer system, is undersized to current state standards, and is of vitrified clay construction, which is incompatible with its shallow depth.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				234,700				\$234,700
Total				234,700				\$234,700
Estimated Personnel Cost								\$0

**Sharon Industrial Park PS Replacement**

**Dept. Priority:** 89

**Description:** The existing pump station, built in 1969, needs replacement. This project will replace the existing pump station with a new pump station near the current pump station located in front of 11441 Rockfield Court within the Sharon Industrial Park Subdivision in the City of Sharonville. The project will also provide backup power by the installation of a generator.

**Purpose:** The project will replace the existing and deteriorated Pump Station.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				1,489,100				\$1,489,100
Total				1,489,100				\$1,489,100
Estimated Personnel Cost								\$0

**Blair Avenue Sewer Replacement**

**Dept. Priority:** 90

**Description:** This project will replace and relocate a portion 168 feet of 18-inch combined sewer , and replace 330 feet of 12-inch combined sewer running along the south side of Blair Avenue just southeast of the Blair Avenue I-71 overpass. This project is located in the Walnut Hills neighborhood of the City of Cincinnati

**Purpose:** The existing 12 and 18-inch combined sewers are in poor condition, with several partial collapses. The sewer, originally installed in 1894, has exceeded its anticipated life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				285,800				\$285,800
Total				285,800				\$285,800
Estimated Personnel Cost								\$0

**Stover Avenue Sewer Replacement**

**Dept. Priority:** 91

**Description:** This project will replace approximately 400 feet of 8 inch sewer that has structurally deteriorated and has heavy root intrusion. This project is located at the intersection of Losantiville and Stover Avenues and extends 400 feet southward along the west side of Stover Avenue. This project is located in the Village of Golf Manor.

**Purpose:** This project will replace 400 feet of deteriorated sewer built in 1929 that has reached the end of its useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				364,600				\$364,600
Total				364,600				\$364,600
Estimated Personnel Cost								\$0

**CSO 125 Sewer Enhancements**

**Dept. Priority:** 92

**Description:** This project will design and construct 900 linear feet of new sanitary pipe, 310 feet of new storm pipe, 560 feet of relocated combined sewer pipe, and 5300 feet of pipe that will serve as a basin outlet pipe in order to remove three perennial streams from the combined sewer system in order to reduce overflows at CSO125 from 252 MG/yr to 101 MG/ yr. This project starts at 4932 Kirby Rd and ends at the West Fork Channel. This project is in the Northside neighborhood of the City of Cincinnati.

**Purpose:** This project is intended to significantly reduce typical year overflows at CSO 125 through sewer separation and stream separation. This combined with the construction of three dry detention basins under the MSD Sustainable Infrastructure Program, will separate 511 million gallons per typical year from the combined sewer system at a cost of \$.01 per gallon removed.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				12,000				\$12,000
Construction				3,675,000				\$3,675,000
Total				3,687,000				\$3,687,000
Estimated Personnel Cost								\$0

**3934 Winding Way Sewer Replacement**

**Dept. Priority:** 107

**Description:** This project will replace 652 feet of deteriorated 12" and 18" combined sewer.

**Purpose:** The purpose of this project is to replace 652 feet of badly deteriorated 12-inch and 18-inch combined sewer serving one residence and providing storm drainage for 22 acres of lands.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				522,100				\$522,100
Total				522,100				\$522,100
Estimated Personnel Cost								\$0

**Polk Run TP Reliab. And Serv. Upg.**

**Dept. Priority:** 113

**Description:** Upgrades and replacement of existing components at the Polk Run WWTP are required to maintain and improve reliability and service. The project scope includes several unit process areas including secondary clarification, return activated sludge pumping, activated sludge basin, waste sludge processing, screening and odor control, plant wide concrete rehabilitation, building exterior rehabilitation, non-potable water network improvements, plant drain modifications, operations building upgrades, piping tunnel leak repair and process monitoring and control improvements.

**Purpose:** Many of the facility upgrades are needed to maintain the reliability of the asset. While various specific upgrades to the facility have occurred over the last few years the scope of this project seeks to assure the long term performance level. Components such as clarifier drives, return activated sludge pumps, tank drainage, concrete repair and protection are required periodically in the life of any facility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				8,257,900				\$8,257,900
Total				8,257,900				\$8,257,900
Estimated Personnel Cost								\$0

**Dry Run Area Sewers Phase 1**

**Dept. Priority:** 114

**Description:** This project is located in Anderson Township along portions of Roundbottom, Edwards, Batavia, Bridle, and Eight Mile Roads in the Little Miami Drainage Basin. The project consists of constructing 21,150 linear feet of 15" to 42" sanitary sewer. The current funding request is for a portion to be constructed starting in 2010, the future funding request is for the remainder to be constructed starting in 2013. The current request includes funding for easement acquisition needed for the portion to be constructed in 2013.

**Purpose:** This project will eliminate the Dry Run Pump Station. Additionally, it will provide service to the Anderson Township Dry Run Area and relieve overloaded sewers in the Clough Creek Drainage Basin.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				414,000				\$414,000
Construction				11,560,700				\$11,560,700
Total				11,974,700				\$11,974,700
Estimated Personnel Cost								\$0

**Dry Run Area Sewers Ph 2**

**Dept. Priority:** 115

**Description:** The project consists of constructing approximately 12,100 linear feet of 18" to 27" sanitary sewer along Broadwell Road. This project is located in Anderson Township along portions of Roundbottom and Broadwell Roads in the Little Miami Drainage Basin.

**Purpose:** This project will provide service to the Anderson Township Dry Run Area. The project is proposed to be constructed in conjunction with the ANCOR Road Connector project. The sewer will provide a service connection for the Anderson Township ANCOR Industrial Area and sewer service for other unsewered areas.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				125,700				\$125,700
Construction				8,348,700				\$8,348,700
Total				8,474,400				\$8,474,400
Estimated Personnel Cost								\$0

**Emergency Sewer Repairs 2013**

**Dept. Priority:** 126

**Description:** Emergency sewer system repairs are completed throughout the entire District using competitively bid as-needed sewer repair contracts. This project allows MSD to quickly and efficiently restore and maintain interrupted service while mitigating the risk of additional damages or losses.

**Purpose:** This project will allow MSDGC to quickly respond to sudden, unexpected sewer system failures which may threaten the public health, welfare, or safety. Conditions that warrant emergency sewer repairs include cave-ins, structurally failed sewers, manholes or building sewers, sewer backups into private property, sewer overflows that may violate permits and regulations, and imminent danger to structures or real property.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				150,000				\$150,000
Construction				8,000,000				\$8,000,000
Total				8,150,000				\$8,150,000
Estimated Personnel Cost								\$0

**CIP Project Planning 2013**

**Dept. Priority:** 132

**Description:** This project consists of funding the necessary planning resources for capital projects.

**Purpose:** This project will provide capital funding to support planning Capital Improvement Program projects. Capital funding for the planning of these types of projects will allow all costs to be tracked against the specific project effort and will serve to reduce MSD operating expenses accordingly.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				2,000,000				\$2,000,000
Total				2,000,000				\$2,000,000
Estimated Personnel Cost								\$0

**Flow Monitoring and Rain Gauges 2013**

**Dept. Priority:** 142

**Description:** MSD plans wastewater collection and treatment projects throughout its district. Flow monitors are installed to support this planning process by measuring actual system performance while providing the necessary data to meet mandated reporting requirements.

**Purpose:** This project will provide sewer flow monitoring and rain gauge services to be used to support MSD's long-range planning needs, meet MSD's SSO and CSO monitoring requirements, and perform CIP post-construction monitoring. Flow monitoring is used to assist in the modeling, planning and design process. Flow monitoring is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				3,800,000				\$3,800,000
Total				3,800,000				\$3,800,000
Estimated Personnel Cost								\$0

**Flow Modeling 2013**

**Dept. Priority:** 147

**Description:** MSD plans and designs wastewater collection and treatment projects throughout its district through the use of computer models.

**Purpose:** This project will provide sewer modeling services to be used to support MSD's long-range planning needs, and to meet MSD's SSO and CSO monitoring requirements. Sewer modeling is used to assist in the planning and design process and is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				2,100,000				\$2,100,000
Total				2,100,000				\$2,100,000
Estimated Personnel Cost								\$0

**High Risk System Asset Renewal 2013**

**Dept. Priority:** 152

**Description:** MSDGC evaluates assets throughout the entire District using standardized condition assessment tools and methodologies. Defective assets, or defective portions of assets that may impair the system's ability to meet defined levels of service are identified, prioritized based upon comprehensive risk, and renewed using the most cost effective methodology to extend the asset's useful life.

**Purpose:** This project will allow MSDGC to replace entire high risk assets or portions of system assets that are currently unable, or anticipated to be unable to meet their defined level of service. This project is necessary to cost effectively extend asset life while protecting and preserving public health and the environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering				150,000				\$150,000
Construction				5,000,000				\$5,000,000
Total				5,150,000				\$5,150,000
Estimated Personnel Cost								\$0

**Daly Road Sewer Replacement**

**Dept. Priority:** 14

**Description:** Replace approximately 5,500 feet of 21-inch severely deteriorated sewer built in 1940s with new 30-Inch sewer to remove flow from Daly Road Vortex Separator and discharge into existing 30-Inch sewer approximately 900 feet east of intersection of Daly Rd and Compton Rd.

**Purpose:** The existing 21-inch diameter sewer was constructed during the 1940's. An engineering study of the existing 21-inch diameter sewer revealed that it was at capacity, therefore replacement with a 30-inch diameter sewer will provide for future sanitary flow upstream. The inspection revealed several structural defects including multiple fractures, breaks, holes, and deformation.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					110,000			\$110,000
Construction					13,539,000			\$13,539,000
Total					13,649,000			\$13,649,000
Estimated Personnel Cost								\$0

**Emergency Sewer Repairs 2014**

**Dept. Priority:** 127

**Description:** Emergency sewer system repairs are completed throughout the entire District using competitively bid as-needed sewer repair contracts. This project allows MSD to quickly and efficiently restore and maintain interrupted service while mitigating the risk of additional damages or losses.

**Purpose:** This project will allow MSDGC to quickly respond to sudden, unexpected sewer system failures which may threaten the public health, welfare, or safety. Conditions that warrant emergency sewer repairs include cave-ins, structurally failed sewers, manholes or building sewers, sewer backups into private property, sewer overflows that may violate permits and regulations, and imminent danger to structures or real property.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					150,000			\$150,000
Construction					8,000,000			\$8,000,000
Total					8,150,000			\$8,150,000
Estimated Personnel Cost								\$0

**CIP Project Planning 2014**

**Dept. Priority:** 133

**Description:** This project consists of funding the necessary planning resources for capital projects.

**Purpose:** This project will provide capital funding to support planning CIP projects. Capital funding for the planning of these types of projects will allow all costs to be tracked against the specific project effort and will serve to reduce MSD operating expenses accordingly

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					2,000,000			\$2,000,000
Total					2,000,000			\$2,000,000
Estimated Personnel Cost								\$0

**Remaining Asset Allowance**

**Dept. Priority:** 139

**Description:** This project is a financial placeholder to ensure minimum Asset Management project funding for the 2014-15 Budget Years

**Purpose:** This project is a financial placeholder to ensure minimum Asset Management project funding for the 2014-15 Budget Years

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering							47,836,600	\$47,836,600
Construction					32,173,100	46,898,600		\$79,071,700
Total					32,173,100	46,898,600	47,836,600	\$126,908,300
Estimated Personnel Cost								\$0

**Flow Monitoring and Rain Gauges 2014**

**Dept. Priority:** 143

**Description:** MSD plans wastewater collection and treatment projects throughout its district. Flow monitors are installed to support this planning process by measuring actual system performance while providing the necessary data to meet mandated reporting requirements.

**Purpose:** This project will provide sewer flow monitoring and rain gauge services to be used to support MSD's long-range planning needs, meet MSD's SSO and CSO monitoring requirements, and perform CIP post-construction monitoring. Flow monitoring is used to assist in the modeling, planning and design process. Flow monitoring is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					3,800,000			\$3,800,000
Total					3,800,000			\$3,800,000
Estimated Personnel Cost								\$0

**Flow Modeling 2014**

**Dept. Priority:** 148

**Description:** MSD plans and designs wastewater collection and treatment projects throughout its district through the use of computer models.

**Purpose:** This project will provide sewer modeling services to be used to support MSD's long-range planning needs, and to meet MSD's SSO and CSO monitoring requirements. Sewer modeling is used to assist in the planning and design process and is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					2,100,000			\$2,100,000
Total					2,100,000			\$2,100,000
Estimated Personnel Cost								\$0

**High Risk System Asset Renewal 2014**

**Dept. Priority:** 153

**Description:** MSDGC evaluates assets throughout the entire District using standardized condition assessment tools and methodologies. Defective assets, or defective portions of assets that may impair the system's ability to meet defined levels of service are identified, prioritized based upon comprehensive risk, and renewed using the most cost effective methodology to extend the asset's useful life.

**Purpose:** This project will allow MSDGC to replace entire high risk assets or portions of system assets that are currently unable, or anticipated to be unable to meet their defined level of service. This project is necessary to cost effectively extend asset life while protecting and preserving public health and the environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering					150,000			\$150,000
Construction					5,000,000			\$5,000,000
Total					5,150,000			\$5,150,000
Estimated Personnel Cost								\$0

**Upper Muddy Lower Planning**

**Dept. Priority:** 2

**Description:** This project will consist of the planning of those projects contained in the Upper Muddy Lower Half Bundle. These projects include 10130020 Muddy Creek Interceptor Rehab, 10130040 CSO 198 Conveyance Sewer, 10130280 Addyston PS Elimination, 10130700 Muddy Creek at Westbourne EHRT Facility, and 10130720 CSO 518 Improvements. These projects are located in Green Township and the Village of Addyston.

**Purpose:** This Phase 1 Wet Weather Improvement Plan Bundle was included in the June 2009 submittal.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						3,242,300		\$3,242,300
Total						3,242,300		\$3,242,300
Estimated Personnel Cost								\$0

**Emergency Sewer Repairs 2015**

**Dept. Priority:** 128

**Description:** Emergency sewer system repairs are completed throughout the entire District using competitively bid as-needed sewer repair contracts. This project allows MSD to quickly and efficiently restore and maintain interrupted service while mitigating the risk of additional damages or losses.

**Purpose:** This project will allow MSDGC to quickly respond to sudden, unexpected sewer system failures which may threaten the public health, welfare, or safety. Conditions that warrant emergency sewer repairs include cave-ins, structurally failed sewers, manholes or building sewers, sewer backups into private property, sewer overflows that may violate permits and regulations, and imminent danger to structures or real property.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						150,000	8,313,000	\$8,463,000
Construction						8,000,000		\$8,000,000
Total						8,150,000	8,313,000	\$16,463,000
Estimated Personnel Cost								\$0

**CIP Project Planning 2015**

**Dept. Priority:** 134

**Description:** This project consists of funding the necessary planning resources for capital projects.

**Purpose:** This project will provide capital funding to support planning CIP projects. Capital funding for the planning of these types of projects will allow all costs to be tracked against the specific project effort and will serve to reduce MSD operating expenses accordingly.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						2,000,000	2,040,000	\$4,040,000
Total						2,000,000	2,040,000	\$4,040,000
Estimated Personnel Cost								\$0

**Flow Monitoring and Rain Gauges 2015**

**Dept. Priority:** 144

**Description:** MSD plans wastewater collection and treatment projects throughout its district. Flow monitors are installed to support this planning process by measuring actual system performance while providing the necessary data to meet mandated reporting requirements.

**Purpose:** This project will provide sewer flow monitoring and rain gauge services to be used to support MSD's long-range planning needs, meet MSD's SSO and CSO monitoring requirements, and perform CIP post-construction monitoring. Flow monitoring is used to assist in the modeling, planning and design process. Flow monitoring is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						3,800,000	3,876,000	\$7,676,000
Total						3,800,000	3,876,000	\$7,676,000
Estimated Personnel Cost								\$0

**Flow Modeling 2015**

**Dept. Priority:** 149

**Description:** MSD plans and designs wastewater collection and treatment projects throughout its district through the use of computer models.

**Purpose:** This project will provide sewer modeling services to be used to support MSD's long-range planning needs, and to meet MSD's SSO and CSO monitoring requirements. Sewer modeling is used to assist in the planning and design process and is required as part of the Global Consent Decree and MSD's CSO NPDES permit.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						2,100,000	2,142,000	\$4,242,000
Total						2,100,000	2,142,000	\$4,242,000
Estimated Personnel Cost								\$0

**High Risk System Asset Renewal 2015**

**Dept. Priority:** 154

**Description:** MSDGC evaluates assets throughout the entire District using standardized condition assessment tools and methodologies. Defective assets, or defective portions of assets that may impair the system's ability to meet defined levels of service are identified, prioritized based upon comprehensive risk, and renewed using the most cost effective methodology to extend the asset's useful life.

**Purpose:** This project will allow MSDGC to replace entire high risk assets or portions of system assets that are currently unable, or anticipated to be unable to meet their defined level of service. This project is necessary to cost effectively extend asset life while protecting and preserving public health and the environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering						150,000	5,253,000	\$5,403,000
Construction						5,000,000		\$5,000,000
Total						5,150,000	5,253,000	\$10,403,000
Estimated Personnel Cost								\$0

# TRANSPORTATION AND ENGINEERING

# Capital Improvement Plan - Transportation & Eng.

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>General Capital Fund</u></b>								
1	Information Systems Acquisition	130,000	150,000	150,000	150,000	150,000	150,000	\$880,000
2	SCIP Loan Repayment	215,000	215,000	215,000	215,000	215,000	215,000	\$1,290,000
3	Innovative Transportation Strategies	500,000	500,000	500,000	500,000	500,000	500,000	\$3,000,000
4	Street Rehabilitation	9,700,000	10,500,000	10,500,000	10,500,000	10,975,000	11,000,000	\$63,175,000
5	Street Improvements	900,000	1,000,000	900,000	1,000,000	1,100,000	1,100,000	\$6,000,000
6	Traffic Signal Installation & Renov.	830,000	830,000	830,000	830,000	830,000	830,000	\$4,980,000
7	OKI Corridor Studies	200,000	200,000	250,000	250,000	250,000	250,000	\$1,400,000
8	Bridge Rehabilitation Program	900,000	1,400,000	1,000,000	1,100,000	1,100,000	1,100,000	\$6,600,000
9	Computerized Traffic Signal System	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
11	Wall Stab. & Landslide Correction	650,000	1,000,000	800,000	800,000	1,000,000	1,000,000	\$5,250,000
13	LED Traffic and Pedestrian Signals	337,500	337,500	337,500	450,000	450,000	450,000	\$2,362,500
14	Gateways/Greenways Improvement	465,000	400,000	400,000	500,000	500,000	500,000	\$2,765,000
15	Sidewalk Repair Program	700,000	750,000	700,000	700,000	750,000	750,000	\$4,350,000
16	Curb Ramps - Street Rehab	400,000	440,000	440,000	440,000	465,000	475,000	\$2,660,000
17	Safety Improvements	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
19	Traffic Signal Controllers & Detectors	75,000	75,000	100,000	100,000	100,000	100,000	\$550,000
20	Downtown Public Paver Replacement	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
22	Bicycle Transportation Program	600,000	600,000	600,000	600,000	600,000	600,000	\$3,600,000
23	Hillside Stairway Rehab. Program	250,000	250,000	200,000	200,000	250,000	250,000	\$1,400,000
26	Spot Infrastructure Replacement	1,025,000	740,000	700,000	700,000	750,000	750,000	\$4,665,000
29	Street Calming Program	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
34	Pavement Management	170,000	170,000	170,000	170,000	170,000	170,000	\$1,020,000
35	Ohio River Trail - Downtown to Salem	100,000	400,000	400,000	400,000	400,000	400,000	\$2,100,000
40	Riverfront Infrastctr. Coord. & Impl.	100,000	25,000	25,000	25,000	25,000	25,000	\$225,000
41	Colerain Ave. Virginia to Leeper Impr.	100,000	100,000					\$200,000
43	Over-the-Rhine Streetscape Imprv.	600,000	700,000	600,000	600,000	400,000	400,000	\$3,300,000
44	Columbia Parkway Enhancements	185,000	50,000	400,000	250,000	600,000		\$1,485,000
45	Downtown Infrastctr. Coord. & Implmntn.	550,000	400,000	362,500	450,000	250,000	300,000	\$2,312,500
46	Uptown Access Improvements West MLK Dr.	400,000	400,000	200,000	200,000			\$1,200,000
47	Harrison Avenue Improvements	500,000						\$500,000
48	Colerain Corr. Imp. I-74 to Spring Grv	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
49	Raised Pavement Markers	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
55	Convention Center Expansion	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	\$6,000,000
56	Western Hills Viaduct Repair/Replmnt.	1,000,000	661,500	1,338,500	1,422,000			\$4,422,000
58	ROW Ordinance Implementation	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
27	Street Light Replacement Project		75,000	100,000	100,000	100,000	100,000	\$475,000
51	Duke Street Light Replmnt. Proj.		100,000	150,000	150,000	150,000	150,000	\$700,000
59	Kennedy Connector			253,500				\$253,500
31	Second and Third Street Improvements					802,200		\$802,200
53	ML King/I-71 Interchange					100,000	100,000	\$200,000
57	Transit Center Reconstruction						712,000	\$712,000
General Capital Total:		23,382,500	24,269,000	24,422,000	24,602,000	24,782,200	24,177,000	\$145,634,700
<b><u>General Aviation Fund</u></b>								
61	Airport Infrastructure Improvements	140,000	140,000	140,000	140,000	140,000	140,000	\$840,000
62	FAA/ODOT Local Match	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
63	Facility Improvements	215,500	236,100	262,600	289,100	302,300	316,400	\$1,622,000
99	CFS Upgrade		1,700					\$1,700

## Capital Improvement Plan - Transportation & Eng.

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>General Aviation Fund</u></b>								
	General Aviation Total:	555,500	577,800	602,600	629,100	642,300	656,400	\$3,663,700
<b><u>Income Tax Transit Fund</u></b>								
71	Transit/Rail Corridor Preservation Acq.	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
	Income Tax Transit Total:	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
	Department of Transportation & Eng. Total:	24,038,000	24,946,800	25,124,600	25,331,100	25,524,500	24,933,400	\$149,898,400

**General Capital Fund**

**Information Systems Acquisition**

**Dept. Priority:** 1

**Description:** This project funds design and acquisition of hardware and software needed to capture, store, integrate, analyze, manage, and report information needed for project management in the Department of Transportation and Engineering. This includes, but is not limited to, construction management, design, permitting, mapping, project management, transportation planning, airport management, traffic control and regulation, and asset management.

**Purpose:** The purpose of this project is to improve both intra- and inter-departmental communications, to provide valuable and timely information needed to effectively operate the department, and to manage transportation assets valued in excess of \$3 billion. These systems complement and extend the capabilities of enterprise systems to serve the specific needs of this department.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Equipment		130,000	150,000	150,000	150,000	150,000	150,000	\$880,000
Total	150,000	130,000	150,000	150,000	150,000	150,000	150,000	\$880,000
Estimated Personnel Cost								\$0

**SCIP Loan Repayment**

**Dept. Priority:** 2

**Description:** This project funds repayment of zero-interest loans from the Ohio Public Works Commission used to rehabilitate streets in various City neighborhoods.

**Purpose:** The purpose of this project is to improve quality of life and reduce street pavement repair costs by: 1) repairing more streets than capital funding allows; 2) repairing these streets sooner, before repairs become more extensive and costly; 3) advancing these repairs so they are performed at lower construction prices; and 4) taking advantage of the time value of money using zero interest loans.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		215,000	215,000	215,000	215,000	215,000	215,000	\$1,290,000
Total	215,000	215,000	215,000	215,000	215,000	215,000	215,000	\$1,290,000
Estimated Personnel Cost								\$0

**Innovative Transportation Strategies**

**Dept. Priority:** 3

**Description:** The project will support the investigation, development, implementation, and evaluation of innovative and sustainable transportation and infrastructure improvements, including "green streets", "complete streets", and contextually sensitive design solutions for all transportation modes in connection with changes in land use, new development and local or regional transportation initiatives. Funds may be used to leverage additional public and/or private funding for infrastructure projects and construction to take full advantage of partnering opportunities.

**Purpose:** The project will fund planning, design, technology, engineering, construction, inspection, and monitoring of new and innovative projects, or project components, to implement and evaluate sustainable solutions related to "green streets", "complete streets", and contextually sensitive design. Project funding may also support pilot projects established to evaluate the effectiveness and applicability of non-traditional design solutions for contemporary transportation and infrastructure issues. This project provides funding to review private and public development plans and to participate in a variety of projects, committees, and studies that affect the City's and region's transportation network including OKI, ODOT, and Federal funding strategies for infrastructure improvements.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		500,000	500,000	500,000	500,000	500,000	500,000	\$3,000,000
Total	100,000	500,000	500,000	500,000	500,000	500,000	500,000	\$3,000,000
Estimated Personnel Cost		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000

**Street Rehabilitation**

**Dept. Priority:** 4

**Description:** This project funds systematic repair and resurfacing of streets throughout the City under the Street Rehabilitation Program. This project funds repairs to curbs, pavements, and resurfacing the roadway. Project funds are also used to match funding from other sources including the Ohio Public Works Commission and the Ohio Department of Transportation. These leveraged funds are used to rehabilitate additional streets. This project funds labor, materials, and technologies needed to plan, design, build, and inspect this construction.

**Purpose:** The purpose of this project is to improve safety for motorists and quality of life in neighborhoods by preserving and upgrading street pavement and curbs on over 940 miles of streets. These streets have an area of approximately 2,840 lane-miles (a lane mile is an area equivalent to a one-mile long by ten-foot wide lane) with a replacement value of \$2.6 billion. Based on the funding level for 2011 and 2012, 70 and 80 lane miles will be completed, respectively. Additional outside funding is sought to help meet and exceed this standard.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		300,000	300,000	300,000	300,000	300,000	300,000	\$1,800,000
Land		50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Construction		9,350,000	10,150,000	10,150,000	10,150,000	10,625,000	10,650,000	\$61,075,000
<b>Total</b>	<b>11,035,700</b>	<b>9,700,000</b>	<b>10,500,000</b>	<b>10,500,000</b>	<b>10,500,000</b>	<b>10,975,000</b>	<b>11,000,000</b>	<b>\$63,175,000</b>
Estimated Personnel Cost		300,000	300,000	300,000	300,000	300,000	300,000	\$1,800,000

**Street Improvements**

**Dept. Priority:** 5

**Description:** This project helps fund improvements to the through street system to improve safety and/or capacity and to support new housing and/or economic development. Program funds help leverage outside funding for specific projects from sources such as the Ohio Public Works Commission's State Capital Improvement Program (SCIP)/Local Transportation Improvement Program (LTIP), as well as Ohio Department of Transportation (ODOT) and Federal Highway Administration (FHWA) funds. Program funds support labor, materials, tools, and technologies needed to plan, design, build, and inspect these improvements. In the 2011/2012 biennium, street improvements will include, but are not limited to, Harrison Avenue, W. MLK Drive, and Kellogg Avenue.

**Purpose:** The purpose of this project is to improve safety and capacity on roadways with documented safety or congestion on existing through streets. Upgrades or improvements are also performed in conjunction with new housing and economic development. These funds are successfully used to advance design as needed to leverage outside funds.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		150,000	100,000	100,000	100,000	100,000	100,000	\$650,000
Land		75,000	75,000	75,000	75,000	75,000	75,000	\$450,000
Construction		675,000	825,000	725,000	825,000	925,000	925,000	\$4,900,000
<b>Total</b>	<b>920,000</b>	<b>900,000</b>	<b>1,000,000</b>	<b>900,000</b>	<b>1,000,000</b>	<b>1,100,000</b>	<b>1,100,000</b>	<b>\$6,000,000</b>
Estimated Personnel Cost		150,000	200,000	150,000	200,000	225,000	225,000	\$1,150,000

**Traffic Signal Installation & Renov.**

**Dept. Priority:** 6

**Description:** This project will provide resources to install traffic signals, audible pedestrian signals, crosswalk signs, and other traffic control devices and remove equipment no longer needed. The project will carry out needed rehabilitation of existing traffic signals, illuminated signs, school flashers, audible pedestrian signals, and other electric and/or electronic traffic controls including roadway lighting and incidental curb or island modifications. This project funds labor, materials, and technologies needed to plan, design, build, and inspect this construction.

**Purpose:** This project would enable the City to replace obsolete or worn out traffic signal and/or roadway lighting equipment before it deteriorates to the point that it can no longer be maintained. The average traffic signal has a life of 25 years, and the City currently has 745 traffic signals valued at \$45 million. It is therefore necessary to reconstruct about 30 traffic signals each year to keep them replaced within their useful life cycle.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		130,000	130,000	130,000	130,000	130,000	130,000	\$780,000
Construction		700,000	700,000	700,000	700,000	700,000	700,000	\$4,200,000
Total	830,000	830,000	830,000	830,000	830,000	830,000	830,000	\$4,980,000
Estimated Personnel Cost		130,000	130,000	130,000	130,000	130,000	130,000	\$780,000

**OKI Corridor Studies**

**Dept. Priority:** 7

**Description:** This project would provide the City's portion of local matching funds to the Ohio-Kentucky-Indiana Regional Council of Governments (OKI), Transportation Improvement District (TID) or the Ohio Department of Transportation (ODOT). It will also provide City staff support or construction activities for a variety of Corridor studies underway or planned in the region. This includes the Preliminary Engineering/Environmental Impact Statement (PE/DEIS) for the Eastern Corridor project, any proposed study or design as a follow-up to the Central Area Loop Study (connecting the downtowns of Cincinnati, Covington and Newport), and the Uptown Transportation Study. Funds may be used to leverage additional public and/or private funding for infrastructure projects and construction.

**Purpose:** This project provides matching funds to support various transportation studies and construction projects designed to improve transportation in the City and the region, typically as part of ongoing OKI type corridor studies.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		200,000	200,000	250,000	250,000	250,000	250,000	\$1,400,000
Total	400,000	200,000	200,000	250,000	250,000	250,000	250,000	\$1,400,000
Estimated Personnel Cost								\$0

**Bridge Rehabilitation Program**

**Dept. Priority:** 8

**Description:** This project provides resources for labor, materials, tools, technologies, and training needed to inspect, prioritize, plan, design, repair, rehabilitate, remove, and/or replace bridges within the City of Cincinnati.

**Purpose:** The purpose of this project is to meet federal and state laws and to keep bridges safe for and open to vehicular, pedestrian, and bicycle traffic, allowing safe passage across rivers, creeks, railroads, roadways, and other barriers. These bridges have a combined deck area of over 1.3 million square feet and replacement value estimated at \$300 million.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		75,000	150,000	100,000	250,000	250,000	250,000	\$1,075,000
Land		25,000	25,000	50,000	50,000	50,000	50,000	\$250,000
Construction		800,000	1,200,000	850,000	800,000	800,000	800,000	\$5,250,000
Equipment			25,000					\$25,000
Total	1,115,000	900,000	1,400,000	1,000,000	1,100,000	1,100,000	1,100,000	\$6,600,000
Estimated Personnel Cost		100,000	150,000	100,000	250,000	250,000	250,000	\$1,100,000

**Computerized Traffic Signal System**

**Dept. Priority:** 9

**Description:** This project would provide funding to complete the remaining portions and upgrade existing portions of the computerized traffic signal system as recommended by the Infrastructure Commission. The project would provide responsive control of traffic signals throughout the City. This project would also provide and upgrade computer equipment and software for those tasks directly related to the project including the replacement of the system specific hardware and software.

**Purpose:** This project would enable the City's traffic signal system to be more functionally responsive to changeable traffic demands by funding the purchase of electronic solid state equipment. This project would also fund the purchase of traffic signal pre-emption equipment for controllers and fire vehicles. Approximately 50 controllers would be placed in service each year.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Total	200,000	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Estimated Personnel Cost		25,000	25,000	25,000	25,000	25,000	25,000	\$150,000

**Wall Stab. & Landslide Correction**

**Dept. Priority:** 11

**Description:** This project funds inspection, repair, rehabilitation, and replacement of retaining walls and provides funding to stabilize landslides affecting the right-of-way at various citywide locations. This project funds labor, materials, tools, technology, and training needed to plan, design, acquire right-of-way, build, and inspect retaining walls and other hillside stabilization systems. The installation of various monitoring devices installed on marginally stable slopes throughout the City is also included.

**Purpose:** The purpose of this project is to preserve and improve the safety and stability of the City's public street system. Landslides and retaining walls are commonplace in the City of Cincinnati because of geology, topography, and former development practices. Timely replacement of deteriorated retaining walls and stabilization of landslides are essential to protect the transportation and utility infrastructure and prevent hazardous conditions within the right-of-way. The City maintains 50.6 miles of retaining walls having an estimated replacement value of \$140 million.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		120,000	180,000	180,000	180,000	180,000	180,000	\$1,020,000
Land		20,000	20,000	20,000	20,000	20,000	20,000	\$120,000
Construction		510,000	800,000	600,000	600,000	800,000	800,000	\$4,110,000
Total	725,000	650,000	1,000,000	800,000	800,000	1,000,000	1,000,000	\$5,250,000
Estimated Personnel Cost		120,000	180,000	180,000	180,000	180,000	180,000	\$1,020,000

**LED Traffic and Pedestrian Signals**

**Dept. Priority:** 13

**Description:** This project provides resources to replace incandescent type traffic signals and pedestrian signals with energy efficient and longer life Light-Emitting Diode (LED) types. The project includes replacing entire pedestrian and traffic signal heads where older units exist and retrofitting the optical unit only in newer units.

**Purpose:** The purpose of the project is to generate operating fund savings through decreased energy costs, wash/relamp costs, and should also result in a reduction in traffic signal outages. Typical incandescent lamps must be replaced once each year. LED's have a useful life of seven to 10 years depending on the type and also use 80% to 90% less energy than incandescent lamps. The price of the LED units has decreased significantly over the last three or four years and is now comparable to the price of regular traffic and pedestrian signal heads. This project would also accelerate the replacement of the word messages in pedestrian signals with the "Hand and Man" symbols that are now required.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		20,000	20,000	20,000	20,000	20,000	20,000	\$120,000
Construction		100,000	100,000	100,000	200,000	200,000	200,000	\$900,000
Equipment		217,500	217,500	217,500	230,000	230,000	230,000	\$1,342,500
Total	450,000	337,500	337,500	337,500	450,000	450,000	450,000	\$2,362,500
Estimated Personnel Cost		30,000	30,000	30,000	45,000	45,000	45,000	\$225,000

**Gateways/Greenways Improvement**

**Dept. Priority:** 14

**Description:** This project will support gateway and greenway improvements in the Central Business District (CBD) to enhance the entry points and overall image of the CBD. The project will contribute to the positive image of the City by providing valuable greenspace improvements along pedestrian, bicycle and vehicular corridors and entry points to the City, neighborhoods and the Central Business District. Project funding will be used to leverage outside grant funding by providing local-match funds, and will leverage private participation with maintenance and operating agreements with community organizations and adjacent businesses and property owners.

**Purpose:** The project provides funding for the planning, design, engineering, construction, and inspection of new gateways and existing corridors that include safety improvements (bumpouts and median islands) as well as street trees and landscaping. Projects may include enhancements to Gilbert Avenue and Reading Road around the Casino site; Liberty Street; Ezzard Charles Drive; Clifton Avenue, MLK Drive and Jefferson Avenue around the University of Cincinnati; and gateway enhancements to the CBD and the City's many neighborhoods.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		165,000	100,000	100,000	100,000	100,000	100,000	\$665,000
Construction		300,000	300,000	300,000	400,000	400,000	400,000	\$2,100,000
Total	125,000	465,000	400,000	400,000	500,000	500,000	500,000	\$2,765,000
Estimated Personnel Cost		165,000	100,000	100,000	100,000	100,000	100,000	\$665,000

**Sidewalk Repair Program**

**Dept. Priority:** 15

**Description:** This project funds repair, reconstruction, construction, and removal of walks, driveways, curb ramps, bus service walks, street and sidewalk pavers, structural slabs, and curbs that are the responsibility of the City of Cincinnati. This project funds labor, materials, and technologies needed to plan, design, build, and inspect the proposed improvements.

**Purpose:** The purpose of this project is to improve the quality of pedestrian and vehicular access within the City of Cincinnati. The project will provide resources to improve Americans with Disabilities Act (ADA) access through construction of curb ramps and reconstruction of defective sidewalks that are the City's responsibility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		150,000	175,000	175,000	175,000	175,000	175,000	\$1,025,000
Construction		550,000	575,000	525,000	525,000	575,000	575,000	\$3,325,000
Total	525,000	700,000	750,000	700,000	700,000	750,000	750,000	\$4,350,000
Estimated Personnel Cost		150,000	175,000	150,000	150,000	175,000	175,000	\$975,000

**Curb Ramps - Street Rehab**

**Dept. Priority:** 16

**Description:** This project funds construction, repair, and replacement of curb ramps throughout the City in concert with streets that are being repaired under the Street Rehabilitation Program. These curb ramps, constructed at intersections, improve pedestrian access along City streets for citizens with disabilities. This project funds labor, materials, and technologies needed to plan, design, build, and inspect this construction.

**Purpose:** The purpose of this project is to meet federal and state laws by improving accessibility for people with disabilities. The Americans with Disabilities Act requires the City to upgrade existing ramps and to install ramps at additional locations. This project allows the City to comply with the requirements of Section 4.29 of 28 Code of Federal Regulations Part 36A- Americans with Disabilities Act Accessibility Guidelines (ADAAG), which became effective July 26, 2001.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		60,000	60,000	60,000	60,000	60,000	65,000	\$365,000
Construction		340,000	380,000	380,000	380,000	405,000	410,000	\$2,295,000
Total	425,000	400,000	440,000	440,000	440,000	465,000	475,000	\$2,660,000
Estimated Personnel Cost		60,000	60,000	60,000	60,000	60,000	65,000	\$365,000

**Safety Improvements**

**Dept. Priority:** 17

**Description:** This project will upgrade existing streets that require minor improvements based upon safety and operational recommendations. Included in this project is all work necessary to plan, design, construct, and inspect the proposed improvements, such as islands, bump outs, and other channelization methods. This project also includes aesthetic and other required elements to improve the neighborhood transportation network. Funds may also be used to leverage additional public and/or private funding for infrastructure projects and construction.

**Purpose:** The purpose of this project is to make minor safety improvements to streets that do not generally qualify for outside funding. This project coordinates efforts with other projects (like the Street Rehabilitation Program) or stands alone to construct safety improvements to maximize funding allocations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Total	100,000	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Estimated Personnel Cost		5,000	5,000	5,000	5,000	5,000	5,000	\$30,000

**Traffic Signal Controllers & Detectors**

**Dept. Priority:** 19

**Description:** This project provides resources to replace obsolete and outdated traffic signal controllers and detectors that have exceeded their physical and technological lives. Most traffic signal controllers become technologically obsolete within ten years, and conditionally obsolete within 15 years. Replacing the signal controllers and detectors would reduce maintenance costs and improve reliability. The traffic signal controller is the primary element of a traffic signal, and modern technology has brought about massive improvements in controller flexibility. The traffic signal controllers are replaced on a City-wide basis, and the current controller modules in use are compatible with the Computerized Traffic Signal System. This project funds labor, materials, and technologies needed to plan, design, build, and inspect these replacements.

**Purpose:** The purpose of this project is to provide for the timely replacement and installation of traffic controllers and vehicle detectors that would allow for the proper and optimum operation of traffic control devices.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering			20,000	20,000	20,000	20,000	20,000	\$100,000
Construction		20,000			80,000			\$100,000
Equipment		55,000	55,000	80,000		80,000	80,000	\$350,000
Total	100,000	75,000	75,000	100,000	100,000	100,000	100,000	\$550,000
Estimated Personnel Cost		25,000	25,000	25,000	25,000	25,000	25,000	\$150,000

**Downtown Public Paver Replacement**

**Dept. Priority:** 20

**Description:** This project funds repair, reconstruction, construction, and removal of paver walks, driveways, and curb ramps in the downtown area that are the responsibility of the City of Cincinnati. This project funds labor, materials, expert services, and technologies needed to plan, design, build, and inspect the proposed improvements.

**Purpose:** The purpose of this project is to preserve and improve the quality of pedestrian access within the City of Cincinnati. It improves Americans with Disabilities Act (ADA) access through reconstruction of paver curb ramps and defective paver sidewalks that are the City's responsibility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Total	50,000	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Estimated Personnel Cost		5,000	5,000	5,000	5,000	5,000	5,000	\$30,000

**Bicycle Transportation Program**

**Dept. Priority:** 22

**Description:** This program funds activities that enhance and improve bicycle/pedestrian transportation, safety, and access citywide as part of the larger regional effort. Specific improvement projects may include bicycle safe inlets, restriping existing streets with bikeways, parking, signing, railroad crossings, traffic improvements, safety projects and multi-use trails. This project helps fund labor, materials, and technologies needed to plan, design, acquire right-of-way, build, and inspect the proposed improvements.

**Purpose:** The purpose of this program is to develop and advance bicycle/pedestrian projects, from small projects in response to community requests, to large trail projects, and other projects which improve bicycle safety or advocate increased bike/pedestrian usage. This program would also allow coordination with surrounding political jurisdictions to enhance bicycle/pedestrian usage in the region. Program funds may also be used to leverage outside funding from state, federal, and other sources. These funds are used to implement the Cincinnati Bicycle Transportation Plan, adopted on June 23, 2010.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		150,000	150,000	150,000	150,000	150,000	150,000	\$900,000
Construction		450,000	450,000	450,000	450,000	450,000	450,000	\$2,700,000
Total	110,000	600,000	600,000	600,000	600,000	600,000	600,000	\$3,600,000
Estimated Personnel Cost		150,000	150,000	150,000	150,000	150,000	150,000	\$900,000

**Hillside Stairway Rehab. Program**

**Dept. Priority:** 23

**Description:** This project funds inspection, repair, rehabilitation, replacement, and removal of the City's hillside stairways. The project also provides resources for labor, materials, and technology and training needed to plan, design, acquire right-of-way, build, and inspect these assets.

**Purpose:** The purpose of this project is to preserve and enhance pedestrian access to homes, businesses, churches, schools, playgrounds, bus stops, and other facilities. The City maintains 398 sets of hillside stairways having an estimated replacement value of \$12 million.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		66,000	66,000	66,000	66,000	66,000	66,000	\$396,000
Land		3,000	3,000	3,000	3,000	3,000	3,000	\$18,000
Construction		181,000	181,000	131,000	131,000	181,000	181,000	\$986,000
Total	225,000	250,000	250,000	200,000	200,000	250,000	250,000	\$1,400,000
Estimated Personnel Cost		70,000	70,000	70,000	70,000	70,000	70,000	\$420,000

**Spot Infrastructure Replacement**

**Dept. Priority:** 26

**Description:** This project funds the replacement of deteriorated infrastructure not covered under other capital projects, including curb replacements and major pavement repairs on streets not requiring rehabilitation, and median reconstruction. This project also funds pavement treatments, including pavement rejuvenation, crack sealing, and microsurfacing, needed to supplement and extend the Street Rehabilitation Program. This project funds labor, materials, and technologies needed to plan, design, acquire right-of-way, build, and inspect the proposed improvements.

**Purpose:** The purpose of this project is to address citizen concerns about isolated infrastructure deficiencies (namely curb, median, and pavement) that do not fit into other capital programs and to extend the useful life of pavements through use of rejuvenators, slurry seals, and other pavement treatments. This project improves responsiveness to citizen requests for repair and preserves pavement assets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		10,000	10,000	10,000	10,000	10,000	10,000	\$60,000
Construction		1,015,000	730,000	690,000	690,000	740,000	740,000	\$4,605,000
Total	550,000	1,025,000	740,000	700,000	700,000	750,000	750,000	\$4,665,000
Estimated Personnel Cost		10,000	10,000	10,000	10,000	10,000	10,000	\$60,000

**Street Calming Program**

**Dept. Priority:** 29

**Description:** This project would provide funding for upgrades to existing streets to reduce vehicular speed and can include minor improvements based upon safety and operational recommendations. Included is all work necessary to plan, design, construct and inspect the proposed improvements on neighborhood streets, such as speed humps, islands, bump outs, and other calming methods. This project also includes aesthetic and other required elements involved with the calming of traffic on the neighborhood transportation network.

**Purpose:** This project would provide funding for the neighborhood street calming program. These funds would be used to improve neighborhoods' livability by mitigating the impact of vehicular traffic on residential neighborhoods. The project supports safe and pleasant conditions for residents, bicyclists, and motorists on neighborhood streets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Total	100,000	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Estimated Personnel Cost		25,000	25,000	25,000	25,000	25,000	25,000	\$150,000

**Pavement Management**

**Dept. Priority:** 34

**Description:** This project provides funding for a pavement management system and includes a thorough inspection and evaluation of all through streets each year. Residential streets would be inspected every three years. These inspections are used to measure the condition of City streets, to better measure the effectiveness of rehabilitation and maintenance programs, and to guide selection of streets for the Street Rehabilitation Program. This project funds labor, materials, and technology needed for this project.

**Purpose:** The purpose of this project is to identify the condition of Cincinnati's streets and guide decisions on the appropriate time for and type of treatment, including reconstruction, rehabilitation, resurfacing, slurry seal, crack seal, and rejuvenation. Additionally, there is a federal standard (GASB 34) that requires that the entire street system be inspected on a three-year cycle to evaluate the conditions of public transportation assets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		170,000	170,000	170,000	170,000	170,000	170,000	\$1,020,000
Total	150,000	170,000	170,000	170,000	170,000	170,000	170,000	\$1,020,000
Estimated Personnel Cost		10,000	10,000	10,000	10,000	10,000	10,000	\$60,000

**Ohio River Trail - Downtown to Salem**

**Dept. Priority:** 35

**Description:** This project helps fund development of the Ohio River Trail from Downtown to Salem Road. The missing segments are extensions of the new trail segments (Corbin to Congress, Wilmer to Carrel, etc). This project helps fund labor, material, and technologies needed to plan, design, acquire right-of-way, build and inspect the proposed improvements.

**Purpose:** The purpose of this project is to systematically construct the Ohio River Trail by extending the bike/hike trail at Lunken Airport west toward downtown and east toward the Little Miami Scenic Trail, adding transportation value and supporting City Council Motion no. 200800817.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		100,000						\$100,000
Construction			400,000	400,000	400,000	400,000	400,000	\$2,000,000
Total	100,000	100,000	400,000	400,000	400,000	400,000	400,000	\$2,100,000
Estimated Personnel Cost		100,000	25,000	25,000	25,000	25,000	25,000	\$225,000

**Riverfront Infrastctr. Coord. & Impl.**

**Dept. Priority:** 40

**Description:** This project funds staff expenditures necessary to coordinate and implement the Central Riverfront Master Plan and to improve mobility between the Riverfront parks, Northern Kentucky, the Banks, the CBD and the region. Funding permits staff involvement in the proposed Banks and Parks projects as well as County revisions to the Master Plan and coordination of planning, design, construction, and project phasing activities with other City and County activities. Funds may be used to leverage additional public and/or private funding for infrastructure projects and construction.

**Purpose:** This project provides funding for staff expenditures necessary to coordinate and implement the Central Riverfront Master Plan and additional development and infrastructure improvement projects along the Riverfront. Project funding is utilized to coordinate, plan, design, construct and inspect various components of Riverfront infrastructure, transportation, and development projects.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		100,000	25,000	25,000	25,000	25,000	25,000	\$225,000
Total	50,000	100,000	25,000	25,000	25,000	25,000	25,000	\$225,000
Estimated Personnel Cost		90,000	20,000	20,000	20,000	20,000	20,000	\$190,000

**Colerain Ave. Virginia to Leeper Impr.**

**Dept. Priority:** 41

**Description:** This project helps fund safety improvements along this portion of Colerain Avenue by extending the improvements already planned for the West Fork/Virginia intersection to Leeper Street. The project will provide wider lanes on Colerain Avenue, new pavement, curbs, tree lawns, sidewalks, and street lighting.

**Purpose:** The purpose of this project is to improve safety and capacity of this portion of Colerain Avenue.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		100,000	100,000					\$200,000
Total	500,000	100,000	100,000					\$200,000
Estimated Personnel Cost		10,000	10,000					\$20,000

**Over-the-Rhine Streetscape Imprv.**

**Dept. Priority:** 43

**Description:** The project will improve curbs, alleys and sidewalks, remediate existing sidewalk encroachments, and upgrade lighting and street furniture in strategic locations in Over-the-Rhine to improve pedestrian accessibility, safety, and the physical appearance of the neighborhood. By partnering with developers and property owners to relocate utilities and remove basement encroachments under sidewalks, the project supports current and future redevelopment efforts. The project promotes green streets, complete streets and sustainability by re-using and recycling historic materials. Funds may be used to leverage additional public and/or private funding for infrastructure projects and construction.

**Purpose:** The project will address roadway safety and mobility improvements, improve curbs, alleys and sidewalks, remediate existing sidewalk encroachments, and upgrade street lighting and street furniture to promote livable, walkable communities and to support ongoing redevelopment. The project will improve pedestrian accessibility and safety, and the physical appearance of the neighborhood. Project funds will support planned public and private improvements to the areas surrounding Washington Park, Music Hall, the Art Academy, the Casino, Rothenberg School, Findlay Market, the Brewery District and other development and housing initiatives.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		600,000	700,000	600,000	600,000	400,000	400,000	\$3,300,000
Total	150,000	600,000	700,000	600,000	600,000	400,000	400,000	\$3,300,000
Estimated Personnel Cost		100,000	125,000	100,000	100,000	75,000	75,000	\$575,000

**Columbia Parkway Enhancements**

**Dept. Priority:** 44

**Description:** This project provides funding for the construction of lighting, bridge rail improvements, landscaping, and slope stabilization along the 6.1 mile stretch of Columbia Parkway from the Central Business District (CBD) to the eastern Corporation Limit. (Roadway pavement conditions would be evaluated as part of existing infrastructure programs, with necessary improvements undertaken by those programs.) Future funding will be utilized to continue lighting improvements for the areas between Torrence Parkway and Delta Avenue and ultimately to the eastern corporation limit.

**Purpose:** These improvements are part of the Columbia Parkway Master Plan which identified needs and necessary improvements to the Historic Parkway to restore its prominence in Cincinnati's Parkway/Greenway system. The project has implemented safe, attractive, and historically appropriate bridge rails and vandal screens, orientation/directional signage, landscaping, and lighting to create a safe, attractive environment for daily commuters and the surrounding neighborhoods. Funds may be used to leverage additional public and/or private funding for infrastructure projects and construction.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		85,000	50,000	50,000	50,000	150,000		\$385,000
Construction		100,000		350,000	200,000	450,000		\$1,100,000
Total		185,000	50,000	400,000	250,000	600,000		\$1,485,000
Estimated Personnel Cost		85,000	50,000	50,000	50,000	150,000		\$385,000

**Downtown Infrastrctr. Coord. & Implmntn.**

**Dept. Priority:** 45

**Description:** The project supports downtown and riverfront development by planning and implementing CBD streetscape and infrastructure improvements in coordination with new CBD, OTR and Riverfront redevelopment activities to improve mobility, safety and convenience for downtown workers, visitors, and residents. Funds may be used to leverage additional public and/or private funding for infrastructure projects and construction.

**Purpose:** The project would fund planning, design, engineering, and inspection work related to various downtown development projects that require Department of Transportation and Engineering support, including the development of downtown infrastructure standards to guide future development and improvement. Projects include additional work around the Fountain Square area, the Riverfront and the Banks, the Casino area and other important locations throughout the Central Business District (CBD), Over-the-Rhine (OTR), Pendleton and the Riverfront. Implementation can include pedestrian, bicycle and other transportation improvements including skywalks, wayfinding signs and coordination with local and regional rail initiatives.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		100,000	150,000	162,500	150,000	100,000	100,000	\$762,500
Construction		450,000	250,000	200,000	300,000	150,000	200,000	\$1,550,000
Total	270,000	550,000	400,000	362,500	450,000	250,000	300,000	\$2,312,500
Estimated Personnel Cost		100,000	150,000	162,500	150,000	100,000	100,000	\$762,500

**Uptown Access Improvements West MLK Dr.**

**Dept. Priority:** 46

**Description:** This project provides resources for improvements to W. Martin Luther King Jr. Drive between McMicken Avenue and Clifton Avenue by improving the S-curve from McMicken Avenue to Dixmyth Avenue, which has a high accident rate. This project will incorporate safe access for pedestrians and bicyclists. The project also includes improvements to the Clifton Avenue and W. Martin Luther King Jr. Drive intersection to improve pedestrian and vehicular safety and congestion and a bike path along W. Martin Luther King Jr. Drive.

**Purpose:** The purpose of this project is to improve the safety and capacity of W. Martin Luther King Jr. Dr. The project will reduce the high accident rate and reduce congestion at the Clifton Avenue intersection.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		400,000	400,000	200,000	200,000			\$1,200,000
Total	200,000	400,000	400,000	200,000	200,000			\$1,200,000
Estimated Personnel Cost		50,000	50,000	25,000	25,000			\$150,000

**Harrison Avenue Improvements**

**Dept. Priority:** 47

**Description:** This project provides resources for spot improvements to Harrison Avenue from Queen City Avenue to the City's west corporation limits including widening pavement, using skid resistant pavement, improving curve superelevation, adding lane width, and adding left turn lanes at signalized intersections, where necessary. The funds may be used for labor, materials, and technologies as needed to plan, design, acquire right-of-way, build, and inspect the proposed improvements.

**Purpose:** The purpose of this project is to improve the safety and capacity of Harrison Avenue. The 3.95 mile long project will reduce the high accident rate and reduce intersection congestion at various locations. These funds will leverage \$5,440,000 of the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) funds.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		500,000						\$500,000
Total	200,000	500,000						\$500,000
Estimated Personnel Cost		75,000						\$75,000

**Colerain Corr. Imp. I-74 to Spring Grv**

**Dept. Priority:** 48

**Description:** This project provides resources to improve intersections on Colerain Avenue from the I-74 Ramp to Spring Grove Avenue, and on Blue Rock Street from Colerain to Spring Grove.

**Purpose:** The purpose of this project is to improve safety of this portion of the Colerain Corridor.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Total	150,000	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Estimated Personnel Cost		10,000	10,000	10,000	10,000	10,000	10,000	\$60,000

**Raised Pavement Markers**

**Dept. Priority:** 49

**Description:** This project would provide resources for reflective raised pavement markers and reflective raised separators or hazard markers that would be installed in curves and other roadway areas where the visibility of normal painted markings is not sufficient. The reflective markers increase the target value of pavement markings. The markers are used as part of an overall accident prevention program, and these markers are most helpful in curved roadway locations. The markers are installed on curves with high accident rates, and on streets that are not on the street rehabilitation six-year plan.

**Purpose:** Raised pavement markers and raised separators or hazard markers greatly enhance positive guidance through curves, and have been instrumental in reducing accidents in roadway curves. The markers are also helpful in guiding motorists through lane transitions and have much greater intensity during rain than normal painted pavement markings.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Total	50,000	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Estimated Personnel Cost		5,000	5,000	5,000	5,000	5,000	5,000	\$30,000

**Convention Center Expansion**

**Dept. Priority:** 55

**Description:** This project provides the funding necessary for the City's General Capital Budget contribution to the Convention Center Expansion project.

**Purpose:** The purpose of this project is to maintain a separate distinct project for the payments made for the City's contribution from the General Capital Budget for the expansion of the Convention Center. The City's contribution from the General Capital Budget began with the 2003 allocation.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	\$6,000,000
Total	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	\$6,000,000
Estimated Personnel Cost								\$0

**Western Hills Viaduct Repair/Replmnt.**

**Dept. Priority:** 56

**Description:** This project provides resources for labor, materials, tools, technologies, and training needed to inspect, plan, design, and acquire right of way, to rehabilitate and/or replace the Western Hills Viaduct.

**Purpose:** The purpose of this project is to keep the Western Hills Viaduct safe for and open to vehicular, pedestrian, and bicycle traffic.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Engineering		1,000,000						\$1,000,000
Construction			661,500	1,338,500	1,422,000			\$3,422,000
Total		1,000,000	661,500	1,338,500	1,422,000			\$4,422,000
Estimated Personnel Cost		300,000	100,000	125,000	125,000			\$650,000

**ROW Ordinance Implementation**

**Dept. Priority:** 58

**Description:** This project funds the removal and replacement of benches, newsracks, bus stop shelters, and other items as per revised CMC 723. This project funds labor, materials, training, and technologies needed to enforce, plan, design, build, and inspect the appropriate items of CMC 723.

**Purpose:** The purpose of this project is to improve the quality of life by creating an active, accessible, and aesthetically pleasing urban environment that will benefit the Citizens of Cincinnati by regulating the uses of and placement of structures within and upon the public rights-of-way as per revised CMC 723.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Total		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Estimated Personnel Cost								\$0

**Street Light Replacement Project**

**Dept. Priority:** 27

**Description:** This project will plan, design and construct major repairs or replacements for existing City-owned and operated street lighting circuits that are nearing the end of their life cycle. These street lighting circuits are not part of the street lighting assessment network.

**Purpose:** The purpose of the Street Light Replacement Project is to upgrade existing City owned and operated street lighting circuits that are nearing the end of their life cycle.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			75,000	100,000	100,000	100,000	100,000	\$475,000
Total	100,000		75,000	100,000	100,000	100,000	100,000	\$475,000
Estimated Personnel Cost			10,000	10,000	10,000	10,000	10,000	\$50,000

**Duke Street Light Replmnt. Proj.**

**Dept. Priority:** 51

**Description:** This project replaces the approximately 20,000 street light fixtures on Duke Energy wood poles at the end of their useful life.

**Purpose:** This project will ensure that Duke Energy maintained street lights, installed at the request of the City, are replaced within their 30 year useful life. The project will reduce street light malfunctions and preserve the City standard street lighting investment, as well as provide the most up-to-date technology for energy efficient street lighting.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction			100,000	150,000	150,000	150,000	150,000	\$700,000
Total			100,000	150,000	150,000	150,000	150,000	\$700,000
Estimated Personnel Cost								\$0

**Kennedy Connector**

**Dept. Priority:** 59

**Description:** The project will build a parallel route next to Ridge Avenue by extending Kennedy Avenue to the south from the Kennedy Avenue and Duck Creek Road intersection to the Madison Road and Camberwell Road intersection.

**Purpose:** This project is to address the substandard geometry, improve the capacity and safety, and support future development along the Ridge Avenue corridor in the Community of Oakley

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction				253,500				\$253,500
Total				253,500				\$253,500
Estimated Personnel Cost								\$0

**Second and Third Street Improvements**

**Dept. Priority:** 31

**Description:** This project funds labor, materials and technologies needed to plan, design and fill the void beneath the Third Street pavement. It also provides resources to replace the settled bridge approach slabs, improve the existing walkways on the south side of Third Street and on the north side of Second Street, and make other improvements as needed to address the settlement along Second and Third Streets.

**Purpose:** The purpose of this project is to improve the condition of the sidewalks, pavement and bridge approach slabs along Second and Third Streets between Elm Street and Main Street.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction						802,200		\$802,200
Total	440,000					802,200		\$802,200
Estimated Personnel Cost						75,000		\$75,000

**ML King/I-71 Interchange**

**Dept. Priority:** 53

**Description:** This project would provide funding for a study project which includes planning, preliminary engineering, and other related costs associated with the development of a proposed interchange concept at Interstate 71 and Martin Luther King, Jr. Drive.

**Purpose:** The purpose of this project is to provide funding for a study project to determine the cost and feasibility of providing an important link between the Uptown area, the second highest employment area in Greater Cincinnati, and Interstate 71. Currently, residential streets are used to access interchanges north and south of M.L. King, Jr. Drive. Federal funds will be needed for construction.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction						100,000	100,000	\$200,000
Total						100,000	100,000	\$200,000
Estimated Personnel Cost								\$0

**Transit Center Reconstruction**

**Dept. Priority:** 57

**Description:** This project funds labor, materials and technologies needed to plan, design and waterproof the Transit Center, including the replacement of bridge approach slabs and streets, sidewalk, and sod spaces adjacent to the Transit Center. Project will include replacement and repair of elements previously damaged by leakage.

**Purpose:** This project is intended to waterproof the Riverfront Transit Center in order to prevent failure to mechanical, electrical and ventilation systems which are necessary for the operation of the facility. The waterproofing will provide the additional benefit of extending the useful life of the structure itself as well as components within.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction							712,000	\$712,000
Total							712,000	\$712,000
Estimated Personnel Cost							50,000	\$50,000

**General Aviation Fund**

**Airport Infrastructure Improvements**

**Dept. Priority:** 61

**Description:** This project will provide resources for improvements to the Airport that are not typically funded by the Federal Aviation Administration (FAA) or Ohio Department of Transportation (ODOT). Improvements will include, but are not limited to, rubber removal, striping, airfield and way-finding signage, security improvements, vehicular parking lot improvements/expansion, Airport Road improvements, flood control improvements/repairs, and various airfield pavement/drainage repairs.

**Purpose:** The purpose of this project is to make improvements (airfield and non-airfield) to the airport's infrastructure to ensure an operationally efficient and esthetically pleasing public airport. This project would also allow the City to meet its commitment to the FAA to maintain a safe and secure facility.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		140,000	140,000	140,000	140,000	140,000	140,000	\$840,000
Total	140,000	140,000	140,000	140,000	140,000	140,000	140,000	\$840,000
Estimated Personnel Cost		25,000	25,000	25,000	25,000	25,000	25,000	\$150,000

**FAA/ODOT Local Match**

**Dept. Priority:** 62

**Description:** This project will provide resources for an annual capital reserve in the General Aviation Fund to provide the matching funds for capital projects which involve Federal Aviation Administration (FAA) and Ohio Department of Transportation (ODOT) grant funding. This capital project would cover expenditures such as equipment, engineering, and construction items.

**Purpose:** The purpose of this project is to meet the local match funding requirements for FAA/ODOT approved projects and to fund expenditures associated with preparation of ODOT/FAA grant applications and funding request documents (Annual FAA Airport Capital Improvement Program).

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Total	200,000	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Estimated Personnel Cost								\$0

**Facility Improvements**

**Dept. Priority:** 63

**Description:** This project will provide resources for improvements to airport-owned facilities that will include, but are not limited to, the following: roofing, plumbing, electrical, ADA wheelchair access, building code upgrades, heating, ventilation and air conditioning (HVAC) improvements, as well as window replacements. The facilities include the Airport Administration Building, City-owned hangars, and the Air Traffic Control Tower and Maintenance Shop. This capital project would cover expenditures such as equipment, engineering and construction items.

**Purpose:** The purpose of this project is to make improvements to the airport's facilities, not funded by the Federal Aviation Administration (FAA). These improvements would serve to preserve the facilities and reduce the operation expenses associated with deteriorated/inefficient facilities. The project would also ensure that the facilities are brought up to current code standards.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		215,500	236,100	262,600	289,100	302,300	316,400	\$1,622,000
Total	170,000	215,500	236,100	262,600	289,100	302,300	316,400	\$1,622,000
Estimated Personnel Cost		15,000	15,000	15,000	20,000	20,000	20,000	\$105,000

**CFS Upgrade**

**Dept. Priority:** 99

**Description:** CFS is upgraded every three years to remain up to date on all rules and regulations as well utilizing the enhancements of the newer version. Version 3.10 will address the Federal 3% Withholding regulation and has enhancements for the disbursement function. The user interface will be redesigned with many improvements suggested by users. In addition, version 3.10 supports the Linux operating system which the City could utilize to allow us to consolidate servers and run the Financial System on a shared server farm.

**Purpose:** This project is to upgrade the Cincinnati Financial System to the latest version in 2012, projected to be 3.10. CFS is upgraded about every three years due to the evolution of the software and the lack of support by the vendor for the previous versions. The City last upgraded the software in 2009 and this upgrade will keep the City consistent with the proper version of the software. Expenses include consulting services, staff time and equipment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			1,700					\$1,700
Total			1,700					\$1,700
Estimated Personnel Cost								\$0

**Income Tax Transit Fund**

**Transit/Rail Corridor Preservation Acq.**

**Dept. Priority:** 71

**Description:** This project would provide funding for the acquisition of real property and/or property rights and related planning, environmental, consultant services, construction, and administrative costs in connection with the preservation and reuse of existing railroad corridors. It would also provide funding for mass transit study related expenses, excluding expenses related to the streetcar project.

**Purpose:** The purpose of this project is to assist the City and the region in meeting regulatory compliance related to federal air quality standards, enhance the City's transportation system, and assist with the acquisition and study of rail corridors for transportation purposes, excluding streetcar project purposes.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Total	100,000	100,000	100,000	100,000	100,000	100,000	100,000	\$600,000
Estimated Personnel Cost								\$0

THIS PAGE INTENTIONALLY LEFT BLANK

# WATER WORKS

# Capital Improvement Plan - Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>Water Works Fund</u></b>								
1	Ultraviolet Disinfection - Miller Plant	12,723,000	8,250,000	2,000,000				\$22,973,000
2	Replacement Water Mains T1201	15,923,000	16,248,000	19,976,000	20,575,000	22,072,000	21,783,000	\$116,577,000
3	Street Improvements T1401	5,500,000	6,100,000	7,800,000	8,000,000	9,226,000	9,274,000	\$45,900,000
4	Valve Replacement Program	275,000	275,000	275,000	275,000	275,000	275,000	\$1,650,000
5	Backup Power Generator - Eden Park	900,000	2,550,000					\$3,450,000
6	Lebanon Pump Station	650,000	920,000					\$1,570,000
7	Kings Island Drive	2,400,000	350,000					\$2,750,000
8	Kings Mills/Columbia - Lebanon Phase II	2,000,000	200,000					\$2,200,000
9	Columbia/Turtlecreek - Lebanon Phase IV	1,000,000	2,200,000					\$3,200,000
10	Mason/Morrow/Millgrove Road-Lebanon Ph 3	1,200,000						\$1,200,000
11	Private Development T1501	400,000	400,000	400,000	400,000	400,000	420,000	\$2,420,000
12	Castings/Street Improvements	354,000	365,000	375,000	390,000	410,000	420,000	\$2,314,000
14	Station Valve Equipment	90,000	70,000	90,000	110,000	90,000	90,000	\$540,000
16	Secondary Basin Drive - Bolton Plant	515,000						\$515,000
17	Mack Tank Interior Coating 2011	249,000	351,000					\$600,000
18	Concrete Rehabilitation 2011	201,000						\$201,000
19	Masonry Rehabilitation 2011	175,000						\$175,000
20	Roof Replacement 2011	130,000						\$130,000
21	Regeneration Furnace Equipment	60,000	60,000	60,000	60,000	60,000	60,000	\$360,000
22	Eden Park Feeder 2 - Parsons Martin	800,000	1,650,000					\$2,450,000
23	Greenhills Tank	600,000						\$600,000
24	Motor Control Center Equipment	100,000	100,000	180,000	180,000	180,000	100,000	\$840,000
25	Electrical Transformers	85,000	85,000	85,000	85,000	85,000	85,000	\$510,000
26	Contamination Warning System	336,000	348,000	39,000	55,000			\$778,000
27	Kemper Road Tank	200,000	3,500,000					\$3,700,000
28	Battery, Charger, and DC Panel	75,000	50,000	50,000	50,000	50,000	75,000	\$350,000
29	Total Organic Carbon Analyzer	40,000						\$40,000
30	Backup Power Generator - Constance	350,000	600,000	2,300,000				\$3,250,000
32	Field App Replacement on Large GCWW Pump	100,000	125,000	125,000	125,000	60,000		\$535,000
34	Continuous WQ Monitors Dist System 2011	65,000						\$65,000
35	Survey GPS Rover and Base Station	120,000						\$120,000
36	Main Station Trans Switch Controls	60,000	60,000					\$120,000
37	Water Main Relocation - Street Imprvmnts	4,537,500	1,512,500					\$6,050,000
57	All Pipes Model	300,000						\$300,000
66	Carbon Transfer Pump - Miller Plant	14,000		50,000	50,000	50,000	37,000	\$201,000
13	Rehabilitate Water Mains T1301		1,300,000	1,400,000	1,500,000	1,595,000	1,604,000	\$7,399,000
15	Computers, Servers, and Software		415,000	441,000	457,000	472,000	492,000	\$2,277,000
31	Budd-Eighth - Dalton to Evans		1,946,000	3,554,000				\$5,500,000
33	Storage Area Network Equipment		300,000	200,000				\$500,000
38	Madison - Observatory to Isabella		1,850,000	3,054,000				\$4,904,000
39	Brecon Tank Coating		50,000	400,000	50,000			\$500,000
40	Critical Backup Power Projects		600,000					\$600,000
41	Fume Hood Controllers		466,000					\$466,000
42	Montgomery and Kennedy Avenues		500,000					\$500,000
43	Tank Coating 2012		600,000					\$600,000
44	Roof Replacement 2012		350,000					\$350,000
45	Duke, Socialville Foster		703,000	1,281,000				\$1,984,000
46	Continuous WQ Monitors Dist System		60,000	60,000	60,000	70,000	100,000	\$350,000
47	Concrete Pavement Replacement		96,000	375,000	376,000	377,000	377,000	\$1,601,000

# Capital Improvement Plan - Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
<b><u>Water Works Fund</u></b>								
48	Turbidimeters - Bolton Plant		102,000	13,000				\$115,000
49	Masonry Replacement		150,000	150,000	150,000	150,000	150,000	\$750,000
50	SCADA Remote Terminal Units		100,000	100,000	100,000	100,000	100,000	\$500,000
67	Meter Interface Units (MIU) 2012		829,000					\$829,000
51	Billing System Replacement			2,800,000	1,858,000			\$4,658,000
52	Well Pumps - Bolton Plant			40,000	40,000	36,000	40,000	\$156,000
53	New Water Mains T1101			679,000	2,000,000	2,492,000	2,506,000	\$7,677,000
54	Wellfield Expansion II - Bolton Plant			1,900,000	2,900,000	80,000		\$4,880,000
55	Tank Coating 2013			750,000				\$750,000
56	Roof Replacement 2013			350,000				\$350,000
58	Lab Upgrade & Expansion - Bolton Plant			500,000	890,000	507,000		\$1,897,000
59	INOVAH Payment System Upgrade			216,000				\$216,000
60	Clifton - Woolper to Dixmyth			350,000	2,000,000	150,000		\$2,500,000
61	Delhi Water Tank Painting			389,000				\$389,000
62	Cherry Grove Elevated Interior Coating			230,000	170,000			\$400,000
63	Crane Equipment Improvements			36,000	66,000		50,000	\$152,000
64	Filter Backwash Turbidimeters			50,000	50,000			\$100,000
65	Intake Pier Access Bridge Painting			200,000				\$200,000
68	Autoclave			50,000				\$50,000
70	Meter Interface Units (MIU) 2013			1,043,000				\$1,043,000
71	Mt. Airy Exterior Renovation			150,000	2,107,000	3,147,000		\$5,404,000
69	Kennedy Heights Pump Station Mods				300,000	700,000		\$1,000,000
72	Tennyson Pump Discharge Valve Upgrade				150,000	450,000		\$600,000
73	Wesselman Road PRV				200,000	1,100,000		\$1,300,000
74	Tank Coating 2014				550,000			\$550,000
75	Roof Replacement 2014				400,000			\$400,000
76	Delhi PRV				500,000			\$500,000
77	Dehumidification System - Miller Plant				52,000	248,000		\$300,000
78	Convergence Infrastructure (VoIP)				300,000	916,000		\$1,216,000
83	Wash Water Recovery Pumps				48,000			\$48,000
84	Meter Interface Units (MIU) 2014				1,043,000			\$1,043,000
85	Operating System Upgrade				27,000	400,000		\$427,000
86	Gas Chromatograph w/MS for VOC Analysis				165,000			\$165,000
87	On-line Chlorine Monitors - Miller Plant				120,000			\$120,000
88	Reporting Application Server Replacement				106,000			\$106,000
89	Software Management System (SMS) Replace				148,000			\$148,000
90	Remote Terminal Units (RTUs) Equipment				124,000	88,000	88,000	\$300,000
91	Chester Park Complex Virtual Environment				150,000			\$150,000
103	Solar Recording Charts				126,000			\$126,000
104	Fields Ertel Road Check Valve				100,000			\$100,000
105	Constance Dosing & Monitoring				26,000			\$26,000
106	IT Service Management				374,000	538,000	520,000	\$1,432,000
107	SCADA Communications Front End (CFE)				122,000			\$122,000
79	Document Management Upgrade					200,000		\$200,000
80	Enterprise Asset Management System					2,208,000	3,259,000	\$5,467,000
81	Call Center Equipment					1,721,000	1,000,000	\$2,721,000
82	PeopleSoft Upgrade					275,000	275,000	\$550,000
92	Filter Automation - Bolton Plant					240,000		\$240,000
93	Gas Chromatograph w/MS for SOC Analysis					150,000		\$150,000

# Capital Improvement Plan - Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>Water Works Fund</u></b>								
94	Gas Chromatograph w/Mass Spectromter-3					115,000		\$115,000
95	Network Upgrade-Chester Park and Miller					591,000		\$591,000
96	Iron Feeder Upgrade - Miller Plant					298,000	2,000	\$300,000
97	Lime Feeder #1 & 4 Upgrade- Miller Plant					200,000		\$200,000
98	Lamella Sludge Pumps #2-9 -Miller Plant					150,000	150,000	\$300,000
99	Security Fence and Camera Upgrades					150,000	150,000	\$300,000
100	Lime Feeder #1 & 4 - Bolton Plant					308,000		\$308,000
101	Sand Filter Valves - Miller Plant					600,000	600,000	\$1,200,000
102	Building Security System Upgrade					300,000		\$300,000
108	Powered Activated Carbon Storage & Feed					414,000	1,017,000	\$1,431,000
109	Total Organic Halide (TOC) Analyzer					60,000		\$60,000
110	HVAC - AHU Upgrades - Miller Plant					200,000	200,000	\$400,000
111	Electric Panel and Lighting Upgrades					50,000	50,000	\$100,000
112	Meter Interface Units (MIU) 2015					1,043,000		\$1,043,000
113	Plainfield/Montgomery					500,000	2,850,000	\$3,350,000
114	Tank Coating 2015					1,350,000		\$1,350,000
115	Roof Replacement 2015					400,000		\$400,000
118	Chem East Concrete Repair					481,000	259,000	\$740,000
119	Madison/Ridge-Isabella to Duck Creek					200,000	500,000	\$700,000
120	Filter Building Boiler - Miller Plant					82,000		\$82,000
121	Lamella Rapid Mix Pump - Miller Plant					120,000		\$120,000
122	Tapered Screw Conveyor - Miller Plant					75,000		\$75,000
123	HVAC Dehumidifier Upgrade - Miller Plant					90,000	90,000	\$180,000
124	Fluoride Feeder Upgrade					60,000		\$60,000
125	Lamella Sludge Collectors - Miller Plant					75,000	75,000	\$150,000
126	Caustic Soda Storage Tank - Miller Plant					120,000		\$120,000
127	Furnace Air Compressor - Miller Plant					50,000		\$50,000
128	Contamination Warning System Replacement					20,000	674,000	\$694,000
129	Wellhead Protection Monitoring Wells					75,000		\$75,000
130	Influent Flume Bypass - Bolton Plant					419,000	600,000	\$1,019,000
140	Electric Heater Upgrades - Miller Plant					50,000	50,000	\$100,000
141	HVAC Air Conditioners - Miller Plant					45,000	45,000	\$90,000
142	Chester Park Complex Carpet Upgrade					200,000		\$200,000
143	Innovation Way					35,000	270,000	\$305,000
147	Reservoir #1 Cascade Repair-Miller Plant					75,000		\$75,000
148	SCADA Remote Site Communications					414,000	229,000	\$643,000
149	Early Detection of Algae					333,000	167,000	\$500,000
150	All Pipe Model Water Quality Validation					300,000		\$300,000
116	Granular Activated Carbon Storage						467,000	\$467,000
117	Spring Grove and Western						50,000	\$50,000
131	Eden Park Feeder 4						200,000	\$200,000
132	McMillan Avenue-Essex to Clifton						500,000	\$500,000
133	Eggleston and 9th Streets						100,000	\$100,000
134	Pete Rose Way/Eggleston-Broadway						200,000	\$200,000
135	Winton Road - Froome to Reservoir						150,000	\$150,000
136	Glenway - Warsaw to Rapid Run						300,000	\$300,000
137	McMillan and May Streets						150,000	\$150,000
138	Kennedy and Highland Avenues						269,000	\$269,000
139	Backup Power Generator - Western Hills						331,000	\$331,000

## Capital Improvement Plan - Water Works

<u>Priority</u>	<u>Project Title</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016</u> <u>Total</u>
<b><u>Water Works Fund</u></b>								
144	Meter Interface Units (MIU) 2016						842,000	\$842,000
145	HVAC - AHU Upgrades - Bolton Plant						80,000	\$80,000
146	Wash Water Pump Upgrades - Miller Plant						50,000	\$50,000
151	Tank Coating 2016						250,000	\$250,000
152	Roof Replacement 2016						600,000	\$600,000
153	Lime Residual Sitework - Bolton Plant						230,000	\$230,000
154	Comprehensive Reliability - Bolton Plant						597,000	\$597,000
Water Works Total:		52,527,500	56,786,500	54,566,000	50,260,000	61,416,000	56,524,000	\$332,080,000
Department of Water Works Total:		52,527,500	56,786,500	54,566,000	50,260,000	61,416,000	56,524,000	\$332,080,000

**Water Works Fund**

**Ultraviolet Disinfection - Miller Plant**

**Dept. Priority:** 1

**Description:** This project will construct the UV disinfection building at the Miller Treatment Plant.

**Purpose:** The purpose of this project is to construct a facility and install ultraviolet treatment (UV) capability at the Miller Treatment Plant. The technology will allow GCWW to address the next phase of the Long Term 2 Enhanced Surface Water Treatment regulations and enhance water quality.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		12,723,000	8,250,000	2,000,000				\$22,973,000
Total		12,723,000	8,250,000	2,000,000				\$22,973,000
Estimated Personnel Cost		683,000						\$683,000

**Replacement Water Mains T1201**

**Dept. Priority:** 2

**Description:** This project is a proposed water main replacement program to meet the goal of replacing or rehabilitating 1% of the total system each year.

**Purpose:** The purpose of this project is replace various water mains identified by Engineering each year to meet department goal of 1% replacement. The replacements are adjusted to fit current annual cost analyses for all water mains.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		15,923,000	16,248,000	19,976,000	20,575,000	22,072,000	21,783,000	\$116,577,000
Total		15,923,000	16,248,000	19,976,000	20,575,000	22,072,000	21,783,000	\$116,577,000
Estimated Personnel Cost		725,000						\$725,000

**Street Improvements T1401**

**Dept. Priority:** 3

**Description:** This project is a proposed water main program to coordinate street projects with other Departments.

**Purpose:** The purpose of this project is to make various projected street improvements throughout the year.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		5,500,000	6,100,000	7,800,000	8,000,000	9,226,000	9,274,000	\$45,900,000
Total		5,500,000	6,100,000	7,800,000	8,000,000	9,226,000	9,274,000	\$45,900,000
Estimated Personnel Cost		250,000						\$250,000

**Valve Replacement Program**

**Dept. Priority:** 4

**Description:** This project will ensure proper transmission of water by periodically replacing valves in the distribution system when they reach the end of their useful life (some of them are 40 to 50 years old).

**Purpose:** The purpose of this project is to replace critical valves in the distribution system. This is part of the continuous replacement of valves reaching the end of their useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		275,000	275,000	275,000	275,000	275,000	275,000	\$1,650,000
Total		275,000	275,000	275,000	275,000	275,000	275,000	\$1,650,000
Estimated Personnel Cost		100,000						\$100,000

**Backup Power Generator - Eden Park**

**Dept. Priority:** 5

**Description:** This project will install a backup power generator at Eden Park.

**Purpose:** The purpose of this project is to install an onsite backup generator system, which will improve system reliability and service to Water Works' customers by providing a backup power source to this pump station.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		900,000	2,550,000					\$3,450,000
Total		900,000	2,550,000					\$3,450,000
Estimated Personnel Cost		40,000						\$40,000

**Lebanon Pump Station**

**Dept. Priority:** 6

**Description:** This project will design and construct a new pump station to supply water to the City of Lebanon no later than January 31, 2013, per the wholesale contract.

**Purpose:** The purpose of this project is to design and construct a new pump station to supply wholesale water to the City of Lebanon.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		650,000	920,000					\$1,570,000
Total		650,000	920,000					\$1,570,000
Estimated Personnel Cost		36,000						\$36,000

**Kings Island Drive**

**Dept. Priority:** 7

**Description:** This project is phase 1 of the installation of transmission mains to provide a source of water to serve the City of Lebanon. This phase includes water mains in Kings Island Drive and Kings Mill Road.

**Purpose:** The purpose of this project is to provide a source of water to serve the City of Lebanon.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		2,400,000	350,000					\$2,750,000
Total		2,400,000	350,000					\$2,750,000
Estimated Personnel Cost		113,000						\$113,000

**Kings Mills/Columbia - Lebanon Phase II**

**Dept. Priority:** 8

**Description:** This project is phase 2 of the installation of transmission mains to provide a source of water to serve the City of Lebanon. This phase includes water mains in Columbia Road.

**Purpose:** The purpose of this project is to provide a source of water to serve the City of Lebanon.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		2,000,000	200,000					\$2,200,000
Total		2,000,000	200,000					\$2,200,000
Estimated Personnel Cost		101,000						\$101,000

**Columbia/Turtlecreek - Lebanon Phase IV**

**Dept. Priority:** 9

**Description:** This project is phase 4 of the installation of transmission mains to provide a source of water to serve the City of Lebanon. This phase includes water mains in Mason Morrow Millgrove Road, Turtle Creek Road, Columbia Road, and in an easement along I-71.

**Purpose:** The purpose of this project is to provide a source of water to serve the City of Lebanon.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		1,000,000	2,200,000					\$3,200,000
Total		1,000,000	2,200,000					\$3,200,000
Estimated Personnel Cost		52,000						\$52,000

**Mason/Morrow/Millgrove Road-Lebanon Ph 3**

**Dept. Priority:** 10

**Description:** This is phase 3 of the installation of transmission mains to provide a source of water to serve the City of Lebanon. This phase includes water mains in Mason Morrow Millgrove Road and Columbia Road.

**Purpose:** The purpose of this project is to provide a source of water to serve the City of Lebanon.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		1,200,000						\$1,200,000
Total		1,200,000						\$1,200,000
Estimated Personnel Cost		49,000						\$49,000

**Private Development T1501**

**Dept. Priority:** 11

**Description:** This project is the proposed water main participation for various developments under the regulations and requirements of the Water Works.

**Purpose:** The purpose of this project is to provide pipe participation per GCWW regulations and requirements of applications, including capital labor and inspection.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		400,000	400,000	400,000	400,000	400,000	420,000	\$2,420,000
Total		400,000	400,000	400,000	400,000	400,000	420,000	\$2,420,000
Estimated Personnel Cost		18,000						\$18,000

**Castings/Street Improvements**

**Dept. Priority:** 12

**Description:** This project will provide curb and casting materials needed for street improvements within the City of Cincinnati where water main replacement or repair is not being completed. This allows GCWW to continue to utilize existing materials to access water mains.

**Purpose:** The purpose of this project is to purchase curb and casting materials needed for street improvements within the City of Cincinnati.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		354,000	365,000	375,000	390,000	410,000	420,000	\$2,314,000
Total		354,000	365,000	375,000	390,000	410,000	420,000	\$2,314,000
Estimated Personnel Cost		16,000						\$16,000

**Station Valve Equipment**

**Dept. Priority:** 14

**Description:** This project will replace critical equipment in various pump stations including valves, actuators, regulators and backflow preventers on an emergency basis.

**Purpose:** The purpose of this project is to replace valves in various pump stations on an emergency basis to ensure the continued delivery of water.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		90,000	70,000	90,000	110,000	90,000	90,000	\$540,000
Total		90,000	70,000	90,000	110,000	90,000	90,000	\$540,000
Estimated Personnel Cost		15,500						\$15,500

**Secondary Basin Drive - Bolton Plant**

**Dept. Priority:** 16

**Description:** This project will upgrade the existing secondary basin drives at the Bolton Treatment Plant which are nearing the end of their useful lives.

**Purpose:** The purpose of this project is to upgrade the existing secondary basin drives at the Bolton Treatment Plant which were last upgraded 15 years ago.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		515,000						\$515,000
Total		515,000						\$515,000
Estimated Personnel Cost		28,000						\$28,000

**Mack Tank Interior Coating 2011**

**Dept. Priority:** 17

**Description:** This project will replace the interior coating of Mack Tank.

**Purpose:** The purpose of this project is to replace the interior coating of Mack Tank to extend useful life of the tank and maintain water quality.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		249,000	351,000					\$600,000
Total		249,000	351,000					\$600,000
Estimated Personnel Cost		14,000						\$14,000

**Concrete Rehabilitation 2011**

**Dept. Priority:** 18

**Description:** This project will replace failed concrete at the Bolton Treatment Plant.

**Purpose:** The purpose of this project is to replace failed concrete at the Bolton Treatment Plant in order to provide a safe work environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		201,000						\$201,000
Total		201,000						\$201,000
Estimated Personnel Cost		9,000						\$9,000

**Masonry Rehabilitation 2011**

**Dept. Priority:** 19

**Description:** This project will provide preventative rehabilitation of the masonry buildings at the Bolton Treatment Plant and Chester Park Complex.

**Purpose:** The purpose of this project is to perform preventative rehabilitation of masonry buildings at the Chester Park Complex and Bolton Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		175,000						\$175,000
Total		175,000						\$175,000
Estimated Personnel Cost		7,000						\$7,000

**Roof Replacement 2011**

**Dept. Priority:** 20

**Description:** This project will replace the roofs on the Cornell Road Pump Station, Mt. Washington pump station, and chlorine injection building.

**Purpose:** The purpose of this project is to replace roofs that have reached the end of their useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		130,000						\$130,000
Total		130,000						\$130,000
Estimated Personnel Cost		6,000						\$6,000

**Regeneration Furnace Equipment**

**Dept. Priority:** 21

**Description:** This project provides critical equipment replacement on Granular Activated Carbon multiple hearth furnaces at the Miller Treatment Plant.

**Purpose:** The purpose of this project is to replace equipment on the Granular Activated Carbon (GAC) Facility furnace. Due to the extreme heat, equipment on the furnace needs to be routinely replaced.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		60,000	60,000	60,000	60,000	60,000	60,000	\$360,000
Total		60,000	60,000	60,000	60,000	60,000	60,000	\$360,000
Estimated Personnel Cost		10,500						\$10,500

**Eden Park Feeder 2 - Parsons Martin**

**Dept. Priority:** 22

**Description:** This project will install a 54 inch transmission water main to provide an additional supply and discharge to the Eden Park reservoir and pump station.

**Purpose:** The purpose of this project is to install additional supply and discharge water mains to/from the Eden Park reservoir, providing better water turnover and a more stable supply of water during peak pumping operations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		800,000	1,650,000					\$2,450,000
Total		800,000	1,650,000					\$2,450,000
Estimated Personnel Cost		30,000						\$30,000

**Greenhills Tank**

**Dept. Priority:** 23

**Description:** This project will provide funding to construct a new tank in Greenhills to provide needed operational flexibility and water supply redundancy.

**Purpose:** The purpose of this project is to provide needed operational flexibility and water supply redundancy.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		600,000						\$600,000
Total		600,000						\$600,000
Estimated Personnel Cost		33,000						\$33,000

**Motor Control Center Equipment**

**Dept. Priority:** 24

**Description:** This project will upgrade motor control centers that are more than 20 years old for which spare parts are difficult to obtain.

**Purpose:** The purpose of this project is to upgrade existing motor control centers (MCC) with modern technology controls and monitors to prevent extended down time and more readily available replacement components.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		100,000	100,000	180,000	180,000	180,000	100,000	\$840,000
Total		100,000	100,000	180,000	180,000	180,000	100,000	\$840,000
Estimated Personnel Cost		17,000						\$17,000

**Electrical Transformers**

**Dept. Priority:** 25

**Description:** This project will upgrade primary transformers at mission critical facilities. The work includes a rewind, regasketing, cooling fins and fan work, monitoring, testing and new oil.

**Purpose:** The purpose of this project is to upgrade the primary electrical transformers at mission critical facilities. The transformers are more than 50 years old, but will remain serviceable and have extended life with these upgrades.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		85,000	85,000	85,000	85,000	85,000	85,000	\$510,000
Total		85,000	85,000	85,000	85,000	85,000	85,000	\$510,000
Estimated Personnel Cost		14,500						\$14,500

**Contamination Warning System**

**Dept. Priority:** 26

**Description:** This project will install an on-line monitoring equipment at additional locations. The United States Environmental Protection Agency's Water Security Initiative (WSI) requires the implementation of a Contamination Warning System (CWS) in order for GCWW to protect its distribution system.

**Purpose:** The purpose of this project is to install 20 additional monitors at strategic locations selected by Environmental Protection Agency's WSI project to utilize the Contamination Warning System (CWS) for water quality and security.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		336,000	348,000	39,000	55,000			\$778,000
Total		336,000	348,000	39,000	55,000			\$778,000
Estimated Personnel Cost		28,000						\$28,000

**Kemper Road Tank**

**Dept. Priority:** 27

**Description:** This project is the construction of a 3 million gallon elevated storage tank on Kemper Road.

**Purpose:** The purpose of this project is to increase elevated storage in Brecon and allow off peak pumping to maximize energy savings.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		200,000	3,500,000					\$3,700,000
Total		200,000	3,500,000					\$3,700,000
Estimated Personnel Cost		9,000						\$9,000

**Battery, Charger, and DC Panel**

**Dept. Priority:** 28

**Description:** This project will replace batteries, chargers and DC control panels that are more than 20 years old and nearing the end of their useful life.

**Purpose:** The purpose of this project is to replace batteries, chargers, and DC control panels for the continuous operation of the DC control system which is vital to the operation of facilities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		75,000	50,000	50,000	50,000	50,000	75,000	\$350,000
Total		75,000	50,000	50,000	50,000	50,000	75,000	\$350,000
Estimated Personnel Cost		13,000						\$13,000

**Total Organic Carbon Analyzer**

**Dept. Priority:** 29

**Description:** This project will replace the current 5-year old total organic carbon (TOC) analyzer monitoring Ohio River water with the most current and reliable version.

**Purpose:** The purpose of this project is to replace a Total Organic Carbon (TOC) analyzer. The TOC analyzer is a piece of analytical equipment which identifies total organic carbon in drinking water.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		40,000						\$40,000
Total		40,000						\$40,000
Estimated Personnel Cost								\$0

**Backup Power Generator - Constance**

**Dept. Priority:** 30

**Description:** This project will install an onsite standby generator system. This standby generator will ensure Water Works' system reliability and service to customers by providing a backup power source in case of power outage in this area.

**Purpose:** The purpose of this project is to install an on-site standby generator system at the pump station serving Northern Kentucky. This standby generator will ensure service to customers in case of power outage in this area.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		350,000	600,000	2,300,000				\$3,250,000
Total		350,000	600,000	2,300,000				\$3,250,000
Estimated Personnel Cost		16,000						\$16,000

**Field App Replacement on Large GCWW Pump**

**Dept. Priority:** 32

**Description:** This project will replace field application circuitry with solid state power factor controls at the Ohio River Plant, Tennyson, Main, Western Hills, and Bolton.

**Purpose:** The purpose of this project is to upgrade large motor reliability, greater motor power factor control, and improve diagnostics using predictive maintenance techniques.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		100,000	125,000	125,000	125,000	60,000		\$535,000
Total		100,000	125,000	125,000	125,000	60,000		\$535,000
Estimated Personnel Cost		17,000						\$17,000

**Continuous WQ Monitors Dist System 2011**

**Dept. Priority:** 34

**Description:** This project will replace the existing Water Quality monitors in the finished water storage facilities.

**Purpose:** The purpose of this project is to install water quality monitors at strategic locations in the water distribution system. These monitors assist with the compliance of regulations and detection of contaminated drinking water.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		65,000						\$65,000
Total		65,000						\$65,000
Estimated Personnel Cost		7,500						\$7,500

**Survey GPS Rover and Base Station**

**Dept. Priority:** 35

**Description:** This project is the regular replacement of the rover and base station. The replacement schedule is on a six to seven year cycle. The service life is five to six years (either obsolete or no software upgrades).

**Purpose:** The purpose of this project is to replace GPS equipment. The regular replacement schedule is on a six to seven year cycle. The service life is five to six years (either obsolete or no software upgrades). The equipment improves accuracy/tracking of asset locations and enhances the location of pipe, valves, etc. in an emergency.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		120,000						\$120,000
Total		120,000						\$120,000
Estimated Personnel Cost		5,000						\$5,000

**Main Station Trans Switch Controls**

**Dept. Priority:** 36

**Description:** This project will purchase and install replacement solid state control systems to replace existing systems that monitors incoming feeders.

**Purpose:** The purpose of this project is to replace existing solid state control systems at the Main Station which monitor incoming feeders that have failed.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		60,000	60,000					\$120,000
Total		60,000	60,000					\$120,000
Estimated Personnel Cost		10,500						\$10,500

**Water Main Relocation - Street Imprvmnts**

**Dept. Priority:** 37

**Description:** This project will relocate water mains affected by installation of certain street improvements.

**Purpose:** The purpose of this project is to relocate water mains due to installation of certain street improvements.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Construction		4,537,500	1,512,500					\$6,050,000
Total		4,537,500	1,512,500					\$6,050,000
Estimated Personnel Cost								\$0

**All Pipes Model**

**Dept. Priority:** 57

**Description:** This project will build an updated all pipes model application to analyze the water system for hydraulic and water quality for long range planning and water quality purposes. The project also includes a master plan update.

**Purpose:** The purpose of this project is to develop an all pipes model application and master plan update, which allows GCWW the ability to analyze the water system as to hydraulic and water quality for planning, operation, and water quality purposes.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		300,000						\$300,000
Total		300,000						\$300,000
Estimated Personnel Cost								\$0

**Carbon Transfer Pump - Miller Plant**

**Dept. Priority:** 66

**Description:** This project will upgrade the recessed impeller carbon transfer pumps which were installed with the Granular Activated Carbon plant startup in 1992. These 15+ year old pumps have shown wear in the pumping of abrasive carbon material and are starting to require more maintenance.

**Purpose:** The purpose of this project is to upgrade the 15+ year old carbon transfer pumps that are showing wear in the pumping of abrasive carbon material. These carbon transfer pumps are starting to require more maintenance each year.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other		14,000		50,000	50,000	50,000	37,000	\$201,000
Total		14,000		50,000	50,000	50,000	37,000	\$201,000
Estimated Personnel Cost		2,500						\$2,500

**Rehabilitate Water Mains T1301**

**Dept. Priority:** 13

**Description:** This project consists of various yearly projects identified by GCWW Engineering to rehabilitate key transmission water mains to improve system hydraulics and save energy.

**Purpose:** The purpose of this project is to rehabilitate existing water mains, extending their lives through various physical processes like cement cleaning and lining.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			1,300,000	1,400,000	1,500,000	1,595,000	1,604,000	\$7,399,000
Total			1,300,000	1,400,000	1,500,000	1,595,000	1,604,000	\$7,399,000
Estimated Personnel Cost								\$0

**Computers, Servers, and Software**

**Dept. Priority:** 15

**Description:** This project is the annual replacement of Computers, Servers and Software throughout GCWW.

**Purpose:** The purpose of this project is to provide systematic replacement of computers (five years or older), servers (seven years or older), and general application software (new and major version upgrades).

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			415,000	441,000	457,000	472,000	492,000	\$2,277,000
Total			415,000	441,000	457,000	472,000	492,000	\$2,277,000
Estimated Personnel Cost								\$0

**Budd-Eighth - Dalton to Evans**

**Dept. Priority:** 31

**Description:** This project will install a 42 inch water main to supply Western Hills and Northern Kentucky.

**Purpose:** The purpose of this project is to provide sufficient flows and pressures to Western Hills and Northern Kentucky customers without impacting existing customers. This project will also improve fire supply and better sustaining pressures.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			1,946,000	3,554,000				\$5,500,000
Total			1,946,000	3,554,000				\$5,500,000
Estimated Personnel Cost								\$0

**Storage Area Network Equipment**

**Dept. Priority:** 33

**Description:** This project will replace both storage area networks (SAN) disk storage systems which will be at the end of their useful lives. One SAN is located at Chester Park (installed 2005) and the other is located at the Miller Plant (installed in 2006).

**Purpose:** The purpose of this project is to replace two storage area networks. These networks provide storage for Water Works' most critical enterprise applications such as BANNER and EMPAC.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			300,000	200,000				\$500,000
Total			300,000	200,000				\$500,000
Estimated Personnel Cost								\$0

**Madison - Observatory to Isabella**

**Dept. Priority:** 38

**Description:** This project will replace the existing 16-inch and 36-inch water mains in Madison Road.

**Purpose:** The purpose of this project is the final piece of the Madison Road Corridor project replacing the existing 36 inch and 16 inch water mains.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			1,850,000	3,054,000				\$4,904,000
Total			1,850,000	3,054,000				\$4,904,000
Estimated Personnel Cost								\$0

**Brecon Tank Coating**

**Dept. Priority:** 39

**Description:** The existing coating of the steel water storage tank serving the Brecon area is approaching the end of its useful life and therefore needs to be replaced to maintain the useful life of the tank. This project will accomplish those objectives.

**Purpose:** The purpose of this project is to replace the existing coating of the steel water storage tank serving the Brecon area. It is approaching the end of its useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			50,000	400,000	50,000			\$500,000
Total			50,000	400,000	50,000			\$500,000
Estimated Personnel Cost								\$0

**Critical Backup Power Projects**

**Dept. Priority:** 40

**Description:** This project will provide portable pumping capability or backup power to critical locations around the GCWW System including portable pump installations at Irwin Simpson Pump Station (PS), Cornell PS and Winton Road PS.

**Purpose:** The purpose of this project is to install backup power or portable pumps at numerous critical locations around the GCWW Distribution System.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			600,000					\$600,000
Total			600,000					\$600,000
Estimated Personnel Cost								\$0

**Fume Hood Controllers**

**Dept. Priority:** 41

**Description:** This project will replace fume hood controllers that are obsolete. Parts and support are not available for the current controllers. Fume hoods are critical for worker safety and analytical performance.

**Purpose:** The purpose of this project is to replace fume hood controllers that are obsolete.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			466,000					\$466,000
Total			466,000					\$466,000
Estimated Personnel Cost								\$0

**Montgomery and Kennedy Avenues**

**Dept. Priority:** 42

**Description:** This project will install a 42 inch discharge water main from the Kennedy Heights station.

**Purpose:** The purpose of this project is an installation of a discharge line for Kennedy Heights to supply the entire northeast, including Warren County, Mason, Lebanon and major portions of Brecon.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			500,000					\$500,000
Total			500,000					\$500,000
Estimated Personnel Cost								\$0

**Tank Coating 2012**

**Dept. Priority:** 43

**Description:** This project will replace interior coating of Delhi Tank.

**Purpose:** The purpose of this project is to replace the interior tank coating of Delhi Tank to extend useful life of the tank and maintain water quality.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			600,000					\$600,000
Total			600,000					\$600,000
Estimated Personnel Cost								\$0

**Roof Replacement 2012**

**Dept. Priority:** 44

**Description:** This project will replace the roof on one or more facilities to maintain structural integrity of buildings.

**Purpose:** The purpose of this project is a replacement roof program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			350,000					\$350,000
Total			350,000					\$350,000
Estimated Personnel Cost								\$0

**Duke, Socialville Foster**

**Dept. Priority:** 45

**Description:** This project will install a 30 inch transmission water main to provide pump station stability and system flexibility.

**Purpose:** The purpose of this project is to install a redundant transmission main between Irwin Simpson and Socialville Foster pumping stations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			703,000	1,281,000				\$1,984,000
Total			703,000	1,281,000				\$1,984,000
Estimated Personnel Cost								\$0

**Continuous WQ Monitors Dist System**

**Dept. Priority:** 46

**Description:** This project will replace the existing Water Quality Monitors at the storage facilities in the distribution system.

**Purpose:** The purpose of this project is to install water quality monitors at strategic locations in the water distribution system. These monitors assist with the compliance of regulations and detection of contaminated drinking water.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			60,000	60,000	60,000	70,000	100,000	\$350,000
Total			60,000	60,000	60,000	70,000	100,000	\$350,000
Estimated Personnel Cost								\$0

**Concrete Pavement Replacement**

**Dept. Priority:** 47

**Description:** This project will replace various surface concrete at facilities throughout the system.

**Purpose:** The purpose of this project is to extend the useful life of pavement at various Water Works' facilities and ensure a safe work environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			96,000	375,000	376,000	377,000	377,000	\$1,601,000
Total			96,000	375,000	376,000	377,000	377,000	\$1,601,000
Estimated Personnel Cost								\$0

**Turbidimeters - Bolton Plant**

**Dept. Priority:** 48

**Description:** This project will replace the turbidimeters at the Bolton Treatment Plant which are near the end of their useful lives.

**Purpose:** The purpose of this project is to replace Bolton Treatment Plant turbidimeters.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			102,000	13,000				\$115,000
Total			102,000	13,000				\$115,000
Estimated Personnel Cost								\$0

**Masonry Replacement**

**Dept. Priority:** 49

**Description:** This project is the annual rehabilitation of existing masonry structures/buildings to maintain the useful life of various structures throughout the system.

**Purpose:** The purpose of this project is to perform masonry replacement to various facilities throughout the system to maintain/extend the useful life of the assets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			150,000	150,000	150,000	150,000	150,000	\$750,000
Total			150,000	150,000	150,000	150,000	150,000	\$750,000
Estimated Personnel Cost								\$0

**SCADA Remote Terminal Units**

**Dept. Priority:** 50

**Description:** This project will replace the existing outlying stations remote terminal units (RTU's) which are approaching 10-15 years in age and need to be upgraded to maintain their reliability.

**Purpose:** The purpose of this project is to replace GCWW's water system communications (SCADA) Remote Terminal Units (RTU's) throughout the Miller and Bolton Treatment Plants and other locations to prevent communications failure.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			100,000	100,000	100,000	100,000	100,000	\$500,000
Total			100,000	100,000	100,000	100,000	100,000	\$500,000
Estimated Personnel Cost								\$0

**Meter Interface Units (MIU) 2012**

**Dept. Priority:** 67

**Description:** This project would provide funding for the scheduled replacement of Meter Interface Units (MIU's). The MIU's provide the meter reading information for the H2O radio read technology. Funding is requested beginning in 2012 based on a 10-year depreciation schedule.

**Purpose:** The purpose of this project is to replace Meter Interface Units based on a useful life (10-years) replacement schedule. MIU's provide the meter reading information for the H2O radio read technology.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other			829,000					\$829,000
Total			829,000					\$829,000
Estimated Personnel Cost								\$0

**Billing System Replacement**

**Dept. Priority:** 51

**Description:** This project will provide funding for the development a new billing system for GCWW.

**Purpose:** The purpose of this project is to replace GCWW's current Customer Information System.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				2,800,000	1,858,000			\$4,658,000
Total				2,800,000	1,858,000			\$4,658,000
Estimated Personnel Cost								\$0

**Well Pumps - Bolton Plant**

**Dept. Priority:** 52

**Description:** This project will replace the original submersible well pumps that were installed in 1978 to ensure reliable pumpage from the wellfield. Two well pumps per year will be replaced/upgraded with more modern equipment over a 5 year period.

**Purpose:** The purpose of this project is to replace the original submersible well pumps installed in 1978 to ensure reliable pumpage from the well field. Two well pumps per year will be replaced/upgraded with more modern equipment over a five-year period.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				40,000	40,000	36,000	40,000	\$156,000
Total				40,000	40,000	36,000	40,000	\$156,000
Estimated Personnel Cost								\$0

**New Water Mains T1101**

**Dept. Priority:** 53

**Description:** This project will install new water main extensions as required each year to address system requirements.

**Purpose:** The purpose of this project is for proposed water main extensions for system looping and betterment meeting GCWW regulations, ISO standards, fire and domestic diurnal demands.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				679,000	2,000,000	2,492,000	2,506,000	\$7,677,000
Total				679,000	2,000,000	2,492,000	2,506,000	\$7,677,000
Estimated Personnel Cost								\$0

**Wellfield Expansion II - Bolton Plant**

**Dept. Priority:** 54

**Description:** This project includes the installation of a parallel raw water transmission main from the wellfield to the Bolton Treatment Plant to provide additional hydraulic capacity. The project also includes the replacement of well #4, which has a collapsed screen.

**Purpose:** The purpose of this project is to expand the amount of water taken from the well field to provide for a more redundant supply and to meet future demand.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				1,900,000	2,900,000	80,000		\$4,880,000
Total				1,900,000	2,900,000	80,000		\$4,880,000
Estimated Personnel Cost								\$0

**Tank Coating 2013**

**Dept. Priority:** 55

**Description:** This project will coat the interior of Brecon tank and exterior of Cherry Grove ground tank to extend the useful lives of the tanks and maintain water quality.

**Purpose:** The purpose of this project is to topcoat the Brecon Tank interior & Cherry Grove Ground tank exterior.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				750,000				\$750,000
Total				750,000				\$750,000
Estimated Personnel Cost								\$0

**Roof Replacement 2013**

**Dept. Priority:** 56

**Description:** This project will replace the roof on one or more facilities to maintain structural integrity of buildings.

**Purpose:** The purpose of this project is a replacement roof program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				350,000				\$350,000
Total				350,000				\$350,000
Estimated Personnel Cost								\$0

**Lab Upgrade & Expansion - Bolton Plant**

**Dept. Priority:** 58

**Description:** This project is a remodeling and expansion to bring the Bolton Treatment Plant laboratory up to current operational and safety standards. The project also proposes a small conference/multi-purpose room to allow for meetings and office work.

**Purpose:** The purpose of this project is to bring the Bolton Treatment Plant's laboratory up to current operational and safety standards through remodeling and expansion.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				500,000	890,000	507,000		\$1,897,000
Total				500,000	890,000	507,000		\$1,897,000
Estimated Personnel Cost								\$0

**INOVAH Payment System Upgrade**

**Dept. Priority:** 59

**Description:** This project would provide funding for the upgrade of the current Revenue Collector system to the new iNovah payment plan software. The project provides an opportunity to stay current with the latest payment processing technology.

**Purpose:** The purpose of this project is to upgrade the current Revenue Collector software application to the new iNovah version.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				216,000				\$216,000
Total				216,000				\$216,000
Estimated Personnel Cost								\$0

**Clifton - Woolper to Dixmyth**

**Dept. Priority:** 60

**Description:** This project will install a 30 inch transmission replacement main that serves the Clifton and Eastern Hills area, including critical hospital and Uptown area serving the Clifton Valve station and Winton Reservoir.

**Purpose:** The purpose of this project is to replace a transmission water main that serves the Clifton and Eastern Hills areas. This main has had recent catastrophic maintenance events near critical customers (University of Cincinnati and several hospitals).

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				350,000	2,000,000	150,000		\$2,500,000
Total				350,000	2,000,000	150,000		\$2,500,000
Estimated Personnel Cost								\$0

**Delhi Water Tank Painting**

**Dept. Priority:** 61

**Description:** This project is the exterior painting of the Delhi tank, which includes lead paint removal. Last painting of this facility was 1989.

**Purpose:** The purpose of this project is to paint the exterior of the Delhi Tank and extend the useful life of the tank and maintain water quality.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				389,000				\$389,000
Total				389,000				\$389,000
Estimated Personnel Cost								\$0

**Cherry Grove Elevated Interior Coating**

**Dept. Priority:** 62

**Description:** This project will replace the interior coating system of Cherry Grove Elevated Tank.

**Purpose:** The purpose of this project is to replace the interior coating system of Cherry Grove Elevated Tank to extend the useful life of the tank and maintain water quality.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				230,000	170,000			\$400,000
Total				230,000	170,000			\$400,000
Estimated Personnel Cost								\$0

**Crane Equipment Improvements**

**Dept. Priority:** 63

**Description:** This project will provide for crane required safety upgrades and improvements to various cranes at mission critical facilities. These cranes were installed between 1940 and 1978.

**Purpose:** The purpose of this project is to install safety upgrades and improvements to various cranes at mission critical facilities. These cranes were installed between 1940 and 1978. Upgrades include replacement of open collector wiring and control wiring.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				36,000	66,000		50,000	\$152,000
Total				36,000	66,000		50,000	\$152,000
Estimated Personnel Cost								\$0

**Filter Backwash Turbidimeters**

**Dept. Priority:** 64

**Description:** This project will install turbidimeters. One turbidimeter will be used on the backwash line for a cluster of 4-sand filters for a total of 12 turbidimeters being installed to cover all 48 filters.

**Purpose:** The purpose of this project is to install turbidimeters to optimize the duration of sand filter backwash without compromising water quality. Utilizing turbidimeters and SCADA backwash will be terminated based on water quality rather than a fixed duration.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				50,000	50,000			\$100,000
Total				50,000	50,000			\$100,000
Estimated Personnel Cost								\$0

**Intake Pier Access Bridge Painting**

**Dept. Priority:** 65

**Description:** This project will paint the intake pier access bridge as well as upgrade the lighting, metal work and other smaller miscellaneous items.

**Purpose:** The purpose of this project is to paint the intake pier access bridge and to complete other upgrades to extend the useful life of the bridge. The intake pier access bridge was last painted in 1985.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				200,000				\$200,000
Total				200,000				\$200,000
Estimated Personnel Cost								\$0

**Autoclave**

**Dept. Priority:** 68

**Description:** This project will replace the 10+ year old autoclave unit which is used to sterilize wastes generated when performing compliance samples in the microbiological lab.

**Purpose:** The purpose of this project is to replace the 10+ year old autoclave used to sterilize waste from microbiological compliance samples.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				50,000				\$50,000
Total				50,000				\$50,000
Estimated Personnel Cost								\$0

**Meter Interface Units (MIU) 2013**

**Dept. Priority:** 70

**Description:** This project would provide funding for the scheduled replacement of Meter Interface Units (MIU's). The MIU's provide the meter reading information for the H2O radio read technology. Funding is based on a 10-year depreciation schedule.

**Purpose:** The purpose of this project is to replace Meter Interface Units based on a useful life (10-years) replacement schedule. MIU's provide the meter reading information for the H2O radio read technology.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				1,043,000				\$1,043,000
Total				1,043,000				\$1,043,000
Estimated Personnel Cost								\$0

**Mt. Airy Exterior Renovation**

**Dept. Priority:** 71

**Description:** This project will prevent further deterioration of the tower superstructure located in the Mt Airy neighborhood. The tanks were originally built in 1926 to serve a portion of the Western Hills service area.

**Purpose:** The purpose of this project is to prevent further deterioration of the tower superstructure. The tanks were originally built in 1926 and every freeze and thaw cycle causes a bit more deterioration within the concrete.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other				150,000	2,107,000	3,147,000		\$5,404,000
Total				150,000	2,107,000	3,147,000		\$5,404,000
Estimated Personnel Cost								\$0

**Kennedy Heights Pump Station Mods**

**Dept. Priority:** 69

**Description:** This project consists of modifications to the Kennedy Heights Pump Station.

**Purpose:** The purpose of this project is to increase firm capacity and pump efficiency in order to maintain an abundant supply of water.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					300,000	700,000		\$1,000,000
Total					300,000	700,000		\$1,000,000
Estimated Personnel Cost								\$0

**Tennyson Pump Discharge Valve Upgrade**

**Dept. Priority:** 72

**Description:** This project will upgrade six hydraulic controlled pump discharge valves to electric valves for three Central service and three Eastern Hills Pumps.

**Purpose:** The purpose of this project is to upgrade six hydraulic controlled pump discharge valves to electric valves for three Central Service and three Eastern Hills Pumps.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					150,000	450,000		\$600,000
Total					150,000	450,000		\$600,000
Estimated Personnel Cost								\$0

**Wesselman Road PRV**

**Dept. Priority:** 73

**Description:** This project will install a pressure reducing valve (PRV) and piping on Wesselman Road from I-74 crossing to Harrison Avenue.

**Purpose:** The purpose of this project is to provide redundancy to the Harrsion Avenue area near Springdale Road.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					200,000	1,100,000		\$1,300,000
Total					200,000	1,100,000		\$1,300,000
Estimated Personnel Cost								\$0

**Tank Coating 2014**

**Dept. Priority:** 74

**Description:** This project will replace the exterior coating of the Brecon tank.

**Purpose:** The purpose of this project is to replace the exterior coating on Brecon Tank to extend the useful life of the tank and maintain water quality.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					550,000			\$550,000
Total					550,000			\$550,000
Estimated Personnel Cost								\$0

**Roof Replacement 2014**

**Dept. Priority:** 75

**Description:** This project will replace the roof on one or more facilities to maintain structural integrity of buildings.

**Purpose:** The purpose of this project is a replacement roof program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					400,000			\$400,000
Total					400,000			\$400,000
Estimated Personnel Cost								\$0

**Delhi PRV**

**Dept. Priority:** 76

**Description:** This project will install a pressure reducing valve (PRV) regulator at Fairbanks and Delhi Pike, north of River Road.

**Purpose:** The purpose of this project is to install a regulator for redundancy to Hillside area.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					500,000			\$500,000
Total					500,000			\$500,000
Estimated Personnel Cost								\$0

**Dehumidification System - Miller Plant**

**Dept. Priority:** 77

**Description:** This project will upgrade the dehumidification system in the Filter Building at the Miller Treatment Plant to control the environment throughout the plant (prevents piping corrosion, chemical caking, etc.).

**Purpose:** The purpose of this project is to upgrade the dehumidifiers in the Filter Building to control the environment throughout the plant preventing piping corrosion, chemical caking, etc. The current systems were upgraded in 1990.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					52,000	248,000		\$300,000
Total					52,000	248,000		\$300,000
Estimated Personnel Cost								\$0

**Convergence Infrastructure (VoIP)**

**Dept. Priority:** 78

**Description:** This project is a convergence infrastructure utilizing Voice over IP technology (VoIP).

**Purpose:** The purpose of this project is to replace the PBX voice switch with Voice over IP technology.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					300,000	916,000		\$1,216,000
Total					300,000	916,000		\$1,216,000
Estimated Personnel Cost								\$0

**Wash Water Recovery Pumps**

**Dept. Priority:** 83

**Description:** This project is the continuation of the upgrade program for pumps which were originally installed in 1976.

**Purpose:** The purpose of this project is to upgrade wash water recovery pumps. The pumps were originally installed in 1976. The pumps, with thirty plus years of pumping gritty material such as sand, filter dirt, and carbon fines, now require major work to be completed.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					48,000			\$48,000
Total					48,000			\$48,000
Estimated Personnel Cost								\$0

**Meter Interface Units (MIU) 2014**

**Dept. Priority:** 84

**Description:** This project would provide funding for the scheduled replacement of Meter Interface Units (MIU's). The MIU's provide the meter reading information for the H2O radio read technology. Funding is based on a 10-year depreciation schedule.

**Purpose:** The purpose of this project is to replace Meter Interface Units based on a useful life (10-years) replacement schedule. MIU's provide the meter reading information for the H2O radio read technology.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					1,043,000			\$1,043,000
Total					1,043,000			\$1,043,000
Estimated Personnel Cost								\$0

**Operating System Upgrade**

**Dept. Priority:** 85

**Description:** This project will upgrade the Operating System to the current version.

**Purpose:** The purpose of this project is to upgrade the current operating system, Windows XP, which has fallen out of mainstream support and will reach it end of its useful life April 2014 when Microsoft will no longer provide any security patches or emergency support. The project will upgrade the operating system on all GCWW workstations, laptops and pentabs to the new Microsoft Operation System.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					27,000	400,000		\$427,000
Total					27,000	400,000		\$427,000
Estimated Personnel Cost								\$0

**Gas Chromatograph w/MS for VOC Analysis**

**Dept. Priority:** 86

**Description:** This project will replace current 10-year old gas chromatograph with mass spectrophotometer (GCMS) that is used for volatile organic chemical (VOC) and trihalomethanes (THM) monitoring with the most current and reliable version.

**Purpose:** The purpose of this project is to replace the existing gas chromatograph with a mass spectrophotometer detector that is ten years old, so that GCWW can continue to monitor the Ohio River, treatment plant, and drinking water for THMs and unknown organic content.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					165,000			\$165,000
Total					165,000			\$165,000
Estimated Personnel Cost								\$0

**On-line Chlorine Monitors - Miller Plant**

**Dept. Priority:** 87

**Description:** This project will replace the on-line chlorine monitors at the Miller Treatment Plant.

**Purpose:** The purpose of this project is to replace on-line chlorine monitors at the Miller Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					120,000			\$120,000
Total					120,000			\$120,000
Estimated Personnel Cost								\$0

**Reporting Application Server Replacement**

**Dept. Priority:** 88

**Description:** This project will purchase the necessary hardware, software, support and maintenance package as well as professional services to implement Crystal Server in a virtual environment and replace the current reporting application server (RAS).

**Purpose:** The purpose of this project is to continue to provide reporting in a browser based format.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					106,000			\$106,000
Total					106,000			\$106,000
Estimated Personnel Cost								\$0

**Software Management System (SMS) Replace**

**Dept. Priority:** 89

**Description:** This project is the Software Management System (SMS) replacement.

**Purpose:** The purpose of this project is to upgrade the current application that IT Services uses to remote control machines (SMS), deploy software, and collect asset information which has reached the end of its useful life and is no longer supported by the vendor.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					148,000			\$148,000
Total					148,000			\$148,000
Estimated Personnel Cost								\$0

**Remote Terminal Units (RTUs) Equipment**

**Dept. Priority:** 90

**Description:** This project will replace in-plant remote terminal units or Bristol Network 3000 RTUs at the Richard Miller Treatment Plant.

**Purpose:** The purpose of this project is to replace remote terminal units. Many of the existing units will be 10-15 years in age and need to be upgraded to maintain their reliability.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					124,000	88,000	88,000	\$300,000
Total					124,000	88,000	88,000	\$300,000
Estimated Personnel Cost								\$0

**Chester Park Complex Virtual Environment**

**Dept. Priority:** 91

**Description:** This project will replace the Chester Park Complex virtual environment equipment.

**Purpose:** The purpose of this project is to replace the current hardware that is required to maintain support and availability. The HP Blade warranty is expiring.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					150,000			\$150,000
Total					150,000			\$150,000
Estimated Personnel Cost								\$0

**Solar Recording Charts**

**Dept. Priority:** 103

**Description:** This project will involve the placement of various recording devices around the system accompanied by solar panels to provide the power required for the recording stations to send a continual signal back to the California Control Center.

**Purpose:** The purpose of this project is to provide a means of obtaining real time system information concerning water pressures and flows at various critical locations around the distribution water system.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					126,000			\$126,000
Total					126,000			\$126,000
Estimated Personnel Cost								\$0

**Fields Ertel Road Check Valve**

**Dept. Priority:** 104

**Description:** This project will install a check valve (CV) at Fields Ertel and Montgomery Road.

**Purpose:** The purpose of this project is to maintain system water pressure near the Brecon Tank.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					100,000			\$100,000
Total					100,000			\$100,000
Estimated Personnel Cost								\$0

**Constance Dosing & Monitoring**

**Dept. Priority:** 105

**Description:** This project will provide limited backup to the hydraulic surge protection of the station and monitoring of the chlorine dosage.

**Purpose:** The purpose of this project is to provide limited backup to the hydraulic surge protection of the station and monitoring of the chlorine dosage.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					26,000			\$26,000
Total					26,000			\$26,000
Estimated Personnel Cost								\$0

**IT Service Management**

**Dept. Priority:** 106

**Description:** The project is for implementation of an IT application to manage services provided by all GCWW IT staff to track performance management. It will be based on Service Management standards and allow GCWW staff to prioritize and address outstanding issues.

**Purpose:** The purpose of this project is the implementation of an IT application based on Service Management standards in order to improve customer service.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					374,000	538,000	520,000	\$1,432,000
Total					374,000	538,000	520,000	\$1,432,000
Estimated Personnel Cost								\$0

**SCADA Communications Front End (CFE)**

**Dept. Priority:** 107

**Description:** This project will replace existing system Communication Front End (CFEs) which supports a limited amount of protocols and has limited processing power.

**Purpose:** The purpose of this project is to replace existing SCADA front end communication hardware. Existing CFEs have reached the end of their useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other					122,000			\$122,000
Total					122,000			\$122,000
Estimated Personnel Cost								\$0

**Document Management Upgrade**

**Dept. Priority:** 79

**Description:** This project is for implementation of an upgrade to the Hyland Software for the current OnBase document management software.

**Purpose:** The purpose of this project is to upgrade the document management software in order to take advantage of new software releases.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						200,000		\$200,000
Total						200,000		\$200,000
Estimated Personnel Cost								\$0

**Enterprise Asset Management System**

**Dept. Priority:** 80

**Description:** This project will replace the current Enterprise Asset Management system (EMPAC) which is used to direct nearly all work on GCWW's assets.

**Purpose:** The purpose of this project is to replace the Enterprise Asset Management system (EMPAC).

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						2,208,000	3,259,000	\$5,467,000
Total						2,208,000	3,259,000	\$5,467,000
Estimated Personnel Cost								\$0

**Call Center Equipment**

**Dept. Priority:** 81

**Description:** This project would provide funding to expand and upgrade features and functions related to the Commercial Services Division's call center operations with a focus on the long-term vision of a comprehensive customer solution for GCWW.

**Purpose:** The purpose of this project is to implement new and/or enhance existing call center technologies to improve our customer service delivery.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						1,721,000	1,000,000	\$2,721,000
Total						1,721,000	1,000,000	\$2,721,000
Estimated Personnel Cost								\$0

**PeopleSoft Upgrade**

**Dept. Priority:** 82

**Description:** This project will upgrade the PeopleSoft application to maintain vendor support.

**Purpose:** The purpose of this project is to upgrade the PeopleSoft application to maintain vendor support for the current version of PeopleSoft. PeopleSoft is an integral part of the work processes for the Water Works Department for capital projects and fixed assets.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						275,000	275,000	\$550,000
Total						275,000	275,000	\$550,000
Estimated Personnel Cost								\$0

**Filter Automation - Bolton Plant**

**Dept. Priority:** 92

**Description:** This project will add controls to sand filters at the groundwater treatment plant to automate the backwash and normal operation processes. The controls will be tied to the central plant system control.

**Purpose:** The purpose of this project is to add controls to the sand filters at the groundwater treatment plant in order to automate the backwash and normal operation processes.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						240,000		\$240,000
Total						240,000		\$240,000
Estimated Personnel Cost								\$0

**Gas Chromatograph w/MS for SOC Analysis**

**Dept. Priority:** 93

**Description:** This project will replace the current 10 year-old laboratory instrument (gas chromatograph with mass spectrophotometer) that is used for monitoring synthetic organic compounds, such as pesticides and homeland security related compounds.

**Purpose:** The purpose of this project is to replace the 10-year old current laboratory analytical instrument (gas chromatograph with mass spectrophotometer) used to monitor synthetic organic compounds, such as pesticides, in the water.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						150,000		\$150,000
Total						150,000		\$150,000
Estimated Personnel Cost								\$0

**Gas Chromatograph w/Mass Spectromter-3**

**Dept. Priority:** 94

**Description:** This project will purchase a laboratory analytical instrument (gas chromatograph with mass spectrometer) to monitor semivolatile organic compounds in the water for compliance with future drinking water regulations.

**Purpose:** The purpose of this project is to purchase a laboratory analytical instrument (gas chromatograph with mass spectrometer) in order to monitor semivolatile organic compounds.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						115,000		\$115,000
Total						115,000		\$115,000
Estimated Personnel Cost								\$0

**Network Upgrade-Chester Park and Miller**

**Dept. Priority:** 95

**Description:** This project will replace the current network hardware with new equipment.

**Purpose:** The purpose of this project is a systematic replacement of the Chester Park Complex and Miller Treatment Plant Network hardware to ensure security, billing, work-order and other critical applications. At the time of replacement, this equipment will be near the end of its useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						591,000		\$591,000
Total						591,000		\$591,000
Estimated Personnel Cost								\$0

**Iron Feeder Upgrade - Miller Plant**

**Dept. Priority:** 96

**Description:** This project will upgrade the chemical feed system (ferric sulfate) at the Miller Treatment plant to maintain equipment operation reliability. Previous upgrades occurred in 2001-2002. This upgrade includes controls and monitoring equipment.

**Purpose:** The purpose of this project is to upgrade the chemical feed system (ferric sulfate) at the Miller Treatment Plant to maintain equipment reliability.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						298,000	2,000	\$300,000
Total						298,000	2,000	\$300,000
Estimated Personnel Cost								\$0

**Lime Feeder #1 & 4 Upgrade- Miller Plant**

**Dept. Priority:** 97

**Description:** This project will upgrade the lime slakers and feeder equipment at the Miller Treatment Plant to maintain system reliability and water treatment consistency. Previous upgrades for the lime slakers occurred in 2004.

**Purpose:** The purpose of this project is to upgrade the lime slaker and feeder equipment at the Miller Treatment Plant to maintain system reliability and water treatment consistency.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						200,000		\$200,000
Total						200,000		\$200,000
Estimated Personnel Cost								\$0

**Lamella Sludge Pumps #2-9 -Miller Plant**

**Dept. Priority:** 98

**Description:** This project will replace sludge pumps #2 to #9 at the Lamella facility (Miller Treatment Plant).

**Purpose:** The purpose of this project is to replace sludge pumps #2 to #9 in the Lamella facility at the Miller Treatment plant because they will have reached the end of their useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						150,000	150,000	\$300,000
Total						150,000	150,000	\$300,000
Estimated Personnel Cost								\$0

**Security Fence and Camera Upgrades**

**Dept. Priority:** 99

**Description:** This project will upgrade / expand the camera and security sensor system along the fence perimeter including software systems and communications to the security center.

**Purpose:** The purpose of this project is to upgrade plant perimeter security equipment at the Miller and Bolton Treatment Plants, and other outlying stations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						150,000	150,000	\$300,000
Total						150,000	150,000	\$300,000
Estimated Personnel Cost								\$0

**Lime Feeder #1 & 4 - Bolton Plant**

**Dept. Priority:** 100

**Description:** This project will upgrade lime slaker and feeder equipment at the Bolton Plant (CMBP). This equipment should be replaced to assure reliability of the lime feed system. CMBP is a lime soda softening plant with the need to ensure that lime feed equipment is fully functional.

**Purpose:** The purpose of this project is to replace the two oldest of the four lime slakers and upgrade to stainless steel construction and program logic controller to ensure reliability.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						308,000		\$308,000
Total						308,000		\$308,000
Estimated Personnel Cost								\$0

**Sand Filter Valves - Miller Plant**

**Dept. Priority:** 101

**Description:** This project will upgrade the existing filter valves in the Filter Building at the Miller Treatment Plant with new valves.

**Purpose:** The purpose of this project is to upgrade the existing filter valves at the Miller Treatment Plant to prevent failure and continued delivery of water.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						600,000	600,000	\$1,200,000
Total						600,000	600,000	\$1,200,000
Estimated Personnel Cost								\$0

**Building Security System Upgrade**

**Dept. Priority:** 102

**Description:** This project will upgrade/expand the Simplex security equipment located at the Miller and Bolton Treatment Plants, Chester Park Complex and other GCWW Facilities.

**Purpose:** The purpose of this project is to upgrade / expand the Simplex security equipment located at Miller and Bolton Treatment Plants, Chester Park Complex and other GCWW facilities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						300,000		\$300,000
Total						300,000		\$300,000
Estimated Personnel Cost								\$0

**Powered Activated Carbon Storage & Feed**

**Dept. Priority:** 108

**Description:** This project will upgrade the existing powder activated carbon (PAC) slurry storage system to dry storage for ease of operation (trouble-free startup of equipment in spite of intermittent usage + actual dose delivery), and to retain the quality of PAC (Iodine number).

**Purpose:** The purpose of this project is to upgrade existing powder activated carbon (PAC) slurry storage system to dry storage.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						414,000	1,017,000	\$1,431,000
Total						414,000	1,017,000	\$1,431,000
Estimated Personnel Cost								\$0

**Total Organic Halide (TOC) Analyzer**

**Dept. Priority:** 109

**Description:** This project replaces the current total organic halide (TOX) analyzer that is over 10 years old.

**Purpose:** The purpose of this project is to replace the 10-year old total organic halide monitor.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						60,000		\$60,000
Total						60,000		\$60,000
Estimated Personnel Cost								\$0

**HVAC - AHU Upgrades - Miller Plant**

**Dept. Priority:** 110

**Description:** This project will upgrade or replace air handling units at several facilities at the Miller Treatment Plant. These units are at least 22-years old and are reaching the end of their useful life. Replacement includes controls, filters and all appuntenances.

**Purpose:** The purpose of this project is to upgrade or replace air handler units (AHU) in the Granular Activated Carbon Building and other Miller Treatment Plant Facilities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						200,000	200,000	\$400,000
Total						200,000	200,000	\$400,000
Estimated Personnel Cost								\$0

**Electric Panel and Lighting Upgrades**

**Dept. Priority:** 111

**Description:** This project will upgrade existing electric lighting panels, indoor and outdoor lights, including conduit and wire between devices.

**Purpose:** The purpose of this project is to upgrade lighting panels and lights in various buildings at the Miller Treatment Plant and other facilities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						50,000	50,000	\$100,000
Total						50,000	50,000	\$100,000
Estimated Personnel Cost								\$0

**Meter Interface Units (MIU) 2015**

**Dept. Priority:** 112

**Description:** This project would provide funding for the scheduled replacement of Meter Interface Units (MIU's). The MIU's provide the meter reading information for the H2O radio read technology. Funding is based on a 10-year depreciation schedule.

**Purpose:** The purpose of this project is to replace Meter Interface Units based on a useful life (10-years) replacement schedule. MIU's provide the meter reading information for the H2O radio read technology.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						1,043,000		\$1,043,000
Total						1,043,000		\$1,043,000
Estimated Personnel Cost								\$0

**Plainfield/Montgomery**

**Dept. Priority:** 113

**Description:** This project will install a 36 inch water main in Plainfield, Montgomery, Galbraith, Blue Ash, and Kugler Mill.

**Purpose:** The purpose of this project is to provide greater capacity from Kennedy Pump Station to Brecon Service Area.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						500,000	2,850,000	\$3,350,000
Total						500,000	2,850,000	\$3,350,000
Estimated Personnel Cost								\$0

**Tank Coating 2015**

**Dept. Priority:** 114

**Description:** This project will apply a protective coating on tanks to extend useful life and maintain water quality.

**Purpose:** The purpose of this project is to apply a protective exterior coating to the Wardall and Pleasant Run Tanks.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						1,350,000		\$1,350,000
Total						1,350,000		\$1,350,000
Estimated Personnel Cost								\$0

**Roof Replacement 2015**

**Dept. Priority:** 115

**Description:** This project will replace the roof on one or more facilities to maintain structural integrity of buildings.

**Purpose:** The purpose of this project is a replacement roof program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						400,000		\$400,000
Total						400,000		\$400,000
Estimated Personnel Cost								\$0

**Chem East Concrete Repair**

**Dept. Priority:** 118

**Description:** This project will involve removal of existing deteriorated concrete and reinforcing steel and replacement of some at various locations around the building.

**Purpose:** The purpose of this project is to replace deteriorated concrete in order to maintain a safe work environment and access to the chemical building.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						481,000	259,000	\$740,000
Total						481,000	259,000	\$740,000
Estimated Personnel Cost								\$0

**Madison/Ridge-Isabella to Duck Creek**

**Dept. Priority:** 119

**Description:** This project will install a 48 and 16 inch transmission water main to supply both Kennedy stations with increased capacity and system redundancy.

**Purpose:** The purpose of this project is to install new 48 and 16 inch water mains in Madison Road to upgrade the system between Main & Tennyson and Kennedy Heights stations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						200,000	500,000	\$700,000
Total						200,000	500,000	\$700,000
Estimated Personnel Cost								\$0

**Filter Building Boiler - Miller Plant**

**Dept. Priority:** 120

**Description:** This project will upgrade/replace the existing 35-year old boilers, including the controls, feedwater and chemical feeder systems in the filter building of the surface water treatment plant. This equipment provides steam heating for the Filter Building.

**Purpose:** The purpose of this project is to upgrade/replace the existing 35-year old boilers (including the controls), feedwater and chemical feeder systems in the filter building at the Miller Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						82,000		\$82,000
Total						82,000		\$82,000
Estimated Personnel Cost								\$0

**Lamella Rapid Mix Pump - Miller Plant**

**Dept. Priority:** 121

**Description:** This project is a replacment of the rapid mix pumps for chemicals in the Lamella Facility at the Miller Treatment Plant which operate 24 hours a day, seven days a week in very humid environmental conditions.

**Purpose:** The purpose of this project is to replace the four pumps for rapid mixing of chemicals in the Lamella Facility at the Miller Treatment Plant to prevent failure and ensure a plentiful supply of water. These pumps will be at the end of their useful service life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						120,000		\$120,000
Total						120,000		\$120,000
Estimated Personnel Cost								\$0

**Tapered Screw Conveyor - Miller Plant**

**Dept. Priority:** 122

**Description:** This project will upgrade the tapered spiral screw conveyor that moves chemicals (lime and iron) from the storage hoppers into the slakers or chemical feeders.

**Purpose:** The purpose of this project is to upgrade the tapered spiral screw conveyor at the Chem East Building. Upgrading the screw auger on this forty (40)+ year old equipment will extend its useful life and improve the cycle time needed to ensure the chemical feeders are full.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						75,000		\$75,000
Total						75,000		\$75,000
Estimated Personnel Cost								\$0

**HVAC Dehumidifier Upgrade - Miller Plant**

**Dept. Priority:** 123

**Description:** This project will upgrade/replace dehumidifier units that have reached the end of their useful life at various facilities around the Miller Treatment Plant complex.

**Purpose:** The purpose of this project is to upgrade / replace dehumidifier units that have reached the end of their useful lives at various facilities around the Miller Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						90,000	90,000	\$180,000
Total						90,000	90,000	\$180,000
Estimated Personnel Cost								\$0

**Fluoride Feeder Upgrade**

**Dept. Priority:** 124

**Description:** This project will upgrade the fluoride feeder system at the Miller Treatment and Bolton Treatment plants.

**Purpose:** The purpose of this project is to upgrade the fluoride feeder systems at both treatment plans. The equipment will reach the end of it's useful life in 2015.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						60,000		\$60,000
Total						60,000		\$60,000
Estimated Personnel Cost								\$0

**Lamella Sludge Collectors - Miller Plant**

**Dept. Priority:** 125

**Description:** This project will replace sludge collector drives in basins two and six in the Lamella facility at the Miller Treatment Plant.

**Purpose:** The purpose of this project is to replace sludge collector drives in basins two and six in the Lamella facility at the Miller Treatment Plant, which are near the end of their useful life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						75,000	75,000	\$150,000
Total						75,000	75,000	\$150,000
Estimated Personnel Cost								\$0

**Caustic Soda Storage Tank - Miller Plant**

**Dept. Priority:** 126

**Description:** This project will replace caustic soda storage tanks.

**Purpose:** The purpose of this project is to replace caustic soda storage tanks which will be at the end of their useful life. Timely replacement of the caustic storage day tanks are required to have reliable storage and ensure safe operations.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						120,000		\$120,000
Total						120,000		\$120,000
Estimated Personnel Cost								\$0

**Furnace Air Compressor - Miller Plant**

**Dept. Priority:** 127

**Description:** This project will upgrade one of the three screw type air compressors that supply house air for the pneumatic valves and other plant processes.

**Purpose:** The purpose of this project is to upgrade one of three screw type furnace air compressors which require significant maintenance but are critical when operating the furnaces during the carbon regeneration campaigns.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						50,000		\$50,000
Total						50,000		\$50,000
Estimated Personnel Cost								\$0

**Contamination Warning System Replacement**

**Dept. Priority:** 128

**Description:** The project replaces the existing monitors on the contamination warning system over their service life which is 10 years.

**Purpose:** The purpose of this project to maintain performance of the contamination warning system by replacing the existing monitors over their service life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						20,000	674,000	\$694,000
Total						20,000	674,000	\$694,000
Estimated Personnel Cost								\$0

**Wellhead Protection Monitoring Wells**

**Dept. Priority:** 129

**Description:** This project will install additional ground water monitor wells, when needed, pending the on-going wellhead protection (WHP) area re-delineation project.

**Purpose:** The purpose of this project is to monitor wells for the wellhead protection program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						75,000		\$75,000
Total						75,000		\$75,000
Estimated Personnel Cost								\$0

**Influent Flume Bypass - Bolton Plant**

**Dept. Priority:** 130

**Description:** This project will install bypass piping to the existing influent flume to meet maintenance needs while maintaining the ability to produce a reasonable amount of water to satisfy operational needs during low system demand periods.

**Purpose:** The purpose of this project is to provide a means to bypass the existing influent flume to allow maintenance needs to take place without having to shut down the entire water treatment plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						419,000	600,000	\$1,019,000
Total						419,000	600,000	\$1,019,000
Estimated Personnel Cost								\$0

**Electric Heater Upgrades - Miller Plant**

**Dept. Priority:** 140

**Description:** This project will upgrade or replace electric heating equipment at various locations around the Miller Treatment Plant complex including controls, thermostats and associated wiring.

**Purpose:** The purpose of this project is to upgrade or replace 30-year old electric heating equipment at various facilities around the Miller Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						50,000	50,000	\$100,000
Total						50,000	50,000	\$100,000
Estimated Personnel Cost								\$0

**HVAC Air Conditioners - Miller Plant**

**Dept. Priority:** 141

**Description:** This project will upgrade or replace air conditioning units at various Miller Treatment Plant facilities. This includes controls, ducting, electric conduit and wire.

**Purpose:** The purpose of this project is to upgrade or replace air conditioning units at various Miller Treatment Plant facilities.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						45,000	45,000	\$90,000
Total						45,000	45,000	\$90,000
Estimated Personnel Cost								\$0

**Chester Park Complex Carpet Upgrade**

**Dept. Priority:** 142

**Description:** This project will replace carpet in high wear areas including hallways and conference rooms to ensure a safe work environment.

**Purpose:** The purpose of this project is to replace carpeting at the Chester Park Complex to avoid tripping hazards and ensure a safe work environment.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						200,000		\$200,000
Total						200,000		\$200,000
Estimated Personnel Cost								\$0

**Innovation Way**

**Dept. Priority:** 143

**Description:** This project will install a 16 inch water main discharge from Socialville Foster Pump Station to supply the Mason south zone.

**Purpose:** The purpose of this project is to provide additional and redundant supply from the pump station to the City of Mason. As the City of Mason grows, this water main will need to be constructed to meet the future demands and provide supply redundancy.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						35,000	270,000	\$305,000
Total						35,000	270,000	\$305,000
Estimated Personnel Cost								\$0

**Reservoir #1 Cascade Repair-Miller Plant**

**Dept. Priority:** 147

**Description:** This project consists of performing repair work on the cascade in Reservoir #1 at the Miller Treatment Plant.

**Purpose:** The purpose of this project is to repair the deteriorating cascade in Reservoir #1 at the Miller Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						75,000		\$75,000
Total						75,000		\$75,000
Estimated Personnel Cost								\$0

**SCADA Remote Site Communications**

**Dept. Priority:** 148

**Description:** This project consists of the design and deployment of a new communications system for GCWW's water system monitoring (SCADA).

**Purpose:** The purpose of this project is to upgrade GCWW's water system monitoring (SCADA) communications system for remote sites. Enhancing remote communications is the foundation upon which all future SCADA improvements will be built.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						414,000	229,000	\$643,000
Total						414,000	229,000	\$643,000
Estimated Personnel Cost								\$0

**Early Detection of Algae**

**Dept. Priority:** 149

**Description:** This project is to evaluate/install new equipment for algae detection and combat Water Quality issues early in the process, in an effort to minimize the cost of the chemicals and operational problems.

**Purpose:** The purpose of this project is to evaluate/install new equipment for algae detection and combat water quality issues early in the process.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						333,000	167,000	\$500,000
Total						333,000	167,000	\$500,000
Estimated Personnel Cost								\$0

**All Pipe Model Water Quality Validation**

**Dept. Priority:** 150

**Description:** This project is an upgrade to the All Pipe Water Quality Model application. As the system condition, operation and service area changes over years, the distribution system model needs recalibration for water quality to address these changes, so it can maintain its prediction accuracy.

**Purpose:** The purpose of this project is to revalidate the distribution system model for water quality in order to maintain its accuracy and effectiveness over changes in system condition, operation and service area.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other						300,000		\$300,000
Total						300,000		\$300,000
Estimated Personnel Cost						14,000		\$14,000

**Granular Activated Carbon Storage**

**Dept. Priority:** 116

**Description:** This project will provide additional Granular Activated Carbon (GAC) storage in order to maintain treatment capacity during the highest water production.

**Purpose:** The purpose of this project is to provide additional Granular Activated Carbon (GAC) storage in order to maintain treatment capacity during the highest water production.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							467,000	\$467,000
Total							467,000	\$467,000
Estimated Personnel Cost								\$0

**Spring Grove and Western**

**Dept. Priority:** 117

**Description:** This project will replace the existing 36 inch transmission main in Spring Grove and Western.

**Purpose:** The purpose of this project is to replace and upgrade the existing 36 inch transmission line providing suction to the Western Hills Station due to reaching the end of its design life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							50,000	\$50,000
Total							50,000	\$50,000
Estimated Personnel Cost								\$0

**Eden Park Feeder 4**

**Dept. Priority:** 131

**Description:** This project will replace the existing Eastern Hills Discharge feeder from Eden Park Pump Station.

**Purpose:** The purpose of this project is to replace and upgrade the Eastern Hills discharge feeder from Eden Park Reservoir and Pump Station, which is nearing the end of its design life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							200,000	\$200,000
Total							200,000	\$200,000
Estimated Personnel Cost								\$0

**McMillan Avenue-Essex to Clifton**

**Dept. Priority:** 132

**Description:** This project will install a 36 inch transmission main in McMillan Avenue from Essex to Clifton Avenues.

**Purpose:** The purpose of this project is a critical transmission replacement for a city water main to maintain adequate supply and water quality.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							500,000	\$500,000
Total							500,000	\$500,000
Estimated Personnel Cost								\$0

**Eggleston and 9th Streets**

**Dept. Priority:** 133

**Description:** This project will install a 48 inch transmission main in Eggleston and 9th Street.

**Purpose:** The purpose of this project is to replace the existing 48-inch transmission main in Eggleston and 9th Street, which is in the critical central service area. The infrastructure is nearing the end of its design life.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							100,000	\$100,000
Total							100,000	\$100,000
Estimated Personnel Cost								\$0

**Pete Rose Way/Eggleston-Broadway**

**Dept. Priority:** 134

**Description:** This project will install a 48 inch transmission main in Pete Rose Way to complete the transmission system from the pump station through downtown to Constance.

**Purpose:** The purpose of this project is to complete the transmission mains through the downtown area.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							200,000	\$200,000
Total							200,000	\$200,000
Estimated Personnel Cost								\$0

**Winton Road - Froome to Reservoir**

**Dept. Priority:** 135

**Description:** This project will install a new transmission main in Winton Road to the Winton Reservoir.

**Purpose:** The purpose of this project is to provide transmission supply in Eastern Hills for maintenance purposes as well as back up supply to Este Avenue.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							150,000	\$150,000
Total							150,000	\$150,000
Estimated Personnel Cost								\$0

**Glenway - Warsaw to Rapid Run**

**Dept. Priority:** 136

**Description:** This project will install a 16 inch replacement water main upgrade to improve arterial water supply through Price Hill and Westwood.

**Purpose:** The purpose of this project is to replace existing 10 and 16 inch mains to better supply water along this primary corridor of Western Hills within the city.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							300,000	\$300,000
Total							300,000	\$300,000
Estimated Personnel Cost								\$0

**McMillan and May Streets**

**Dept. Priority:** 137

**Description:** This project will install a 48 inch transmission water main that upgrades water service to the Clifton/Uptown Area and hospital/medical areas, replacing an existing 36 inch water main. This also supports discharge of Eden Reservoir to the Winton Reservoir supply.

**Purpose:** The purpose of this project is to install a transmission water main to upgrade water service to the Clifton/Uptown areas. This transmission upgrade is vital to the core water system and Winton Reservoir supply.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							150,000	\$150,000
Total							150,000	\$150,000
Estimated Personnel Cost								\$0

**Kennedy and Highland Avenues**

**Dept. Priority:** 138

**Description:** This project will install a 48 inch transmission water main to replace existing supply and enhance additional water supply for future needs.

**Purpose:** The purpose of this project is to install transmission water main to supply Kennedy Heights station to meet water demands of northeast including Brecon, Mason, Lebanon and Warren.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							269,000	\$269,000
Total							269,000	\$269,000
Estimated Personnel Cost								\$0

**Backup Power Generator - Western Hills**

**Dept. Priority:** 139

**Description:** This project will provide an onsite standby generator system to the Western Hills Pump Station. This standby generator will ensure Water Works' system reliability and service to customers by providing a backup power source which could be used in case of a power outage.

**Purpose:** The purpose of this project is to install an onsite standby generator system. This standby generator will ensure Water Works' system reliability and service to customers by providing a backup power source which could be used in case of a power outage.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							331,000	\$331,000
Total							331,000	\$331,000
Estimated Personnel Cost								\$0

**Meter Interface Units (MIU) 2016**

**Dept. Priority:** 144

**Description:** This project would provide funding for the scheduled replacement of Meter Interface Units (MIU's). The MIU's provide the meter reading information for the H2O radio read technology. Funding is based on a 10-year depreciation schedule.

**Purpose:** The purpose of this project is to replace Meter Interface Units based on a useful life (10-years) replacement schedule. MIU's provide the meter reading information for the H2O radio read technology.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							842,000	\$842,000
Total							842,000	\$842,000
Estimated Personnel Cost								\$0

**HVAC - AHU Upgrades - Bolton Plant**

**Dept. Priority:** 145

**Description:** This project will upgrade four 35-year old air handlers units including cabinet, filters, fan, condensing coil, vibration isolation mounts, duct, thermostat and controls. Existing TRANE units were last replaced in 1978.

**Purpose:** The purpose of this project is to upgrade air handling equipment at the Bolton Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							80,000	\$80,000
Total							80,000	\$80,000
Estimated Personnel Cost								\$0

**Wash Water Pump Upgrades - Miller Plant**

**Dept. Priority:** 146

**Description:** This project will upgrade or replace six washwater pumps located in the front of the Filter Building at the Miller Treatment Plant.

**Purpose:** The purpose of this project is to upgrade or replace six washwater pumps located in the front of the Filter Building at the Miller Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							50,000	\$50,000
Total							50,000	\$50,000
Estimated Personnel Cost								\$0

**Tank Coating 2016**

**Dept. Priority:** 151

**Description:** This project will apply a protective coating on tanks to extend useful life and maintain water quality.

**Purpose:** The purpose of this project is to apply a protective exterior coating to the Cherry Grove Elevated Tank.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							250,000	\$250,000
Total							250,000	\$250,000
Estimated Personnel Cost								\$0

**Roof Replacement 2016**

**Dept. Priority:** 152

**Description:** This project will replace the roof on one or more facilities to maintain structural integrity of buildings.

**Purpose:** The purpose of this project is a replacement roof program.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							600,000	\$600,000
Total							600,000	\$600,000
Estimated Personnel Cost								\$0

**Lime Residual Sitework - Bolton Plant**

**Dept. Priority:** 153

**Description:** This project will construct a holding lagoon adjacent to existing site for disposing of lime residual from the Bolton Treatment Plant softening process.

**Purpose:** The purpose is to provide a location for placement of spent lime residual solids at the Bolton Treatment Plant.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							230,000	\$230,000
Total							230,000	\$230,000
Estimated Personnel Cost								\$0

**Comprehensive Reliability - Bolton Plant**

**Dept. Priority:** 154

**Description:** This project will provide preliminary design engineering for numerous projects (chlorine gas alternatives, sludge line reconstruction, recarbonation facilities, etc.) to improve reliability, redundancy and plant capacity.

**Purpose:** The purpose of this project is to provide preliminary design engineering for numerous projects to improve reliability, redundancy and plant capacity.

<u>Phases</u>	<u>Prior Year</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2011-2016 Total</u>
Other							597,000	\$597,000
Total							597,000	\$597,000
Estimated Personnel Cost								\$0