

# WATER (41)

## AGENCY PLAN: MISSION, GOALS AND BUDGET SUMMARY

### MISSION:

The Water and Sewerage Department is to exceed our customers' expectations through innovative treatment and transmission of water and wastewater, and the provision of services that promote healthy communities and economic growth.

### AGENCY GOALS:

The Water Division is administratively part of the Detroit Water and Sewerage Department while maintained as a separate fund in the City of Detroit Accounting System.

### AGENCY FINANCIAL SUMMARY:

2011-12 <u>Requested</u>		2010-11 <u>Budget</u>	2011-12 <u>Recommended</u>	Increase <u>(Decrease)</u>
\$ 163,821,840	Operation and Maintenance	\$ 163,933,747	\$ 163,821,840	\$ (111,907)
164,909,500	Debt Service	164,258,400	164,909,500	651,100
57,223,600	Capital Appropriations	47,296,500	57,223,600	9,927,100
<u>300,000,000</u>	Bonded Capital	<u>-</u>	<u>300,000,000</u>	<u>300,000,000</u>
\$ 685,954,940	Total Appropriations	\$ 375,488,647	\$ 685,954,940	\$ 310,466,293
\$ 385,954,940	Departmental Revenues	\$ 375,488,647	\$ 385,954,940	\$ 10,466,293
<u>300,000,000</u>	Sale of Bonds	<u>-</u>	<u>300,000,000</u>	<u>300,000,000</u>
\$ 685,954,940	Total Revenues	\$ 375,488,647	\$ 685,954,940	\$ 310,466,293
\$ -	NET TAX COST:	\$ -	\$ -	\$ -

### AGENCY EMPLOYEE STATISTICS:

2011-12 <u>Requested</u>		2010-11 <u>Budget</u>	04-01-11 <u>Actual</u>	2011-12 <u>Recommended</u>	Increase <u>(Decrease)</u>
<u>1,717</u>	City Positions	<u>1,717</u>	<u>1,406</u>	<u>1,717</u>	<u>0</u>
1,717	Total Positions	1,717	1,406	1,717	0

### ACTIVITIES IN THIS AGENCY:

	2010-11 <u>Budget</u>	2011-12 <u>Recommended</u>	Increase <u>(Decrease)</u>
Administrative Services	\$ 16,658,196	\$ 17,446,169	\$ 787,973
Financial Services	6,230,521	6,353,132	122,611
Asset Maintenance	38,393,439	38,114,459	(278,980)
Plant Operations - Water	62,004,416	59,787,312	(2,217,104)
Engineering Services	3,603,869	2,775,426	(828,443)
Water - Capital and Debt Service	211,554,900	522,133,100	310,578,200
Information Tech & Systems Integration	24,101,708	25,261,043	1,159,335
Public Affairs Group	12,941,598	12,787,281	(154,317)
Process & Quality Control Services	<u>-</u>	<u>1,297,018</u>	<u>1,297,018</u>
Total Appropriations	\$ 375,488,647	\$ 685,954,940	\$ 310,466,293

## **WATER (41)**

### ***ADMINISTRATIVE SERVICES ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: ADMINISTRATIVE SERVICES**

The role of the Administrative Support Group is to support the mission and goals of the department. The Administrative Support Group is responsible for carrying out the policies of the Board and the business management of the department. This group consists of three major divisions: Administration, Security, and the Contracts and Grants Division.

**The Security Division** provides a safe and secure working environment for all DWSD personnel. The Division is responsible for the monitoring and securing of multiple facilities, coordinating responsiveness during hazardous and emergency situations. Additional responsibilities include:

- A range of emergency preparedness measures, actions, and processes
- Loss prevention
- Prevention and detection of unlawful activity and offenses on or within facilities
- Conducting investigations

**The Print Shop** is a full service, in-house printing facility with the primary function of providing comprehensive, timely, effective, and cost efficient printing and print auxiliary services to the various groups within DWSD.

**The Contracts and Grants Division** is divided into four (4) units: Consultant Contracts, Construction Contracts, Grants/Loans/Audits and Design-Build/Local Economic Development. The Consultant and Construction Units prepare advertisements and contract documents, monitor progress on contract work, including payment and reports, and provide closeout services. The Grants/Loans/Audits Unit provides contract monitoring, closeout, and regular audit functions for construction, consultant services, and construction management projects. Also, the Design-Build/Local Economic Development Unit prepares advertisements and contract documents, monitors progress on contract work, including payment and reports, and provides closeout services. The unit also monitors targeted enterprise participation on contracts, which is mandated by Executive Orders and City Ordinances.

#### **GOALS:**

1. To implement the policies of the Board, Charter requirements and Federal mandates for supplying water services.
2. To implement a comprehensive agency-wide reference source.
3. To ensure widespread internal knowledge of key messages and to develop a well informed employee base.
4. To educate and inform both retail and wholesale customers and the community about important DWSD projects, initiatives, and water issues.
5. To continuously carry out proactive public safety measures by enhancing security practices at all facilities. These practices are based on a vulnerability assessment conducted for the Environmental Protection Agency (EPA).
6. To efficiently and effectively process contracts, grants and loans.
7. To encourage local businesses to participate in the Department's contracting process.

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### ADMINISTRATIVE SERVICES MEASURES AND TARGETS

<b>Type of Performance Measure:</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>
List of Measures	Actual	Actual	Projection	Target
<b>Inputs: Resources Allocated or Service Demands Made:</b>				
City populations served	900,000	900,000	900,000	900,000
Suburban populations served	3.3 million	3.3 million	3.3 million	3.3 million
Number of Drinking Water Revolving Loan Fund applic.	1	1	0	0
Value of Drinking Water Revolving Loan Fund applic.	0	6,500,000	0	0
<b>Activity Costs</b>	<b>\$95,189,348</b>	<b>\$71,778,610</b>	<b>\$16,658,196</b>	<b>\$17,446,169</b>

**CITY OF DETROIT**  
**Water**  
**Financial Detail by Appropriation and Organization**

<b>Office of the Director</b>	<b>2010-11</b>		<b>2011-12</b>		<b>2011-12</b>	
	<b>Redbook</b>		<b>Dept Final</b>		<b>Mayor's</b>	
<b>Administration</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<b>Request</b>					<b>Budget Rec</b>	
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
00085 - Administration						
411010 - Office of the Director	8	\$392,022	7	\$374,509	6	\$330,110
411030 - Document Management	0	\$129,510	0	\$0	0	\$0
411040 - General Staff Services	0	\$6,552,051	0	\$7,882,972	0	\$9,174,437
411050 - General Departmental Services	0	\$4,979,115	0	\$5,145,681	0	\$5,145,681
411060 - Human Resources	0	\$26,499	0	\$24,432	0	\$24,432
411070 - Safety	0	\$176,678	0	\$0	0	\$0
411080 - Security	130	\$3,401,826	130	\$3,352,669	130	\$2,171,576
411090 - Office of Program Management Assist	0	\$394,244	0	\$0	0	\$0
411095 - Capital Management	0	\$0	0	\$39,050	0	\$39,050
411100 - Print Shop	0	\$155,947	0	\$155,086	0	\$155,086
411200 - Contracts and Grants	28	\$450,304	28	\$471,770	27	\$405,797
411251 - Meter Operations	0	\$0	0	\$0	0	\$0
411256 - Meter Records	0	\$0	0	\$0	0	\$0
411261 - Meter Shop	0	\$0	0	\$0	0	\$0
411266 - Meter Instrumentation Shop	0	\$0	0	\$0	0	\$0
<b>APPROPRIATION TOTAL</b>	<b>166</b>	<b>\$16,658,196</b>	<b>165</b>	<b>\$17,446,169</b>	<b>163</b>	<b>\$17,446,169</b>
<b>ACTIVITY TOTAL</b>	<b>166</b>	<b>\$16,658,196</b>	<b>165</b>	<b>\$17,446,169</b>	<b>163</b>	<b>\$17,446,169</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
<b>AC0541 - Administration Services</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	2,408,781	1,773,609	1,761,609
EMPBENESL - Employee Benef	1,967,809	2,089,833	810,368
PROFSVCSL - Professional/Cor	1,407,000	2,494,956	2,494,956
OPERSUPSL - Operating Suppli	208,610	192,168	192,168
OPERSVCSL - Operating Servic	10,910,302	10,275,215	11,566,680
CAPOUTLSL - Capital Outlays/In	0	0	0
OTHEXPSSL - Other Expenses	(244,306)	620,388	620,388
<i>A41000 - Water Department</i>	16,658,196	17,446,169	17,446,169
<b>AC0541 - Administration Services</b>	<b>16,658,196</b>	<b>17,446,169</b>	<b>17,446,169</b>
<b>Grand Total</b>	<b>16,658,196</b>	<b>17,446,169</b>	<b>17,446,169</b>

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### ***FINANCIAL SERVICES ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: FINANCIAL SERVICES GROUP**

The Financial Services Group consists of seven (7) divisions, which provide general accounting, purchasing, materials management, financial planning, capital management, customer billing and management system support and internal audit services for both Water Supply and Sewage Treatment Operations within the department. The divisions reporting to the Financial Services Group include the following:

**The Accounting Division** contains several sections which combined are responsible for directing, coordinating, posting, processing and monitoring activities related to cash receipts and disbursements, investments, bank activities, vendor payments, inventory activities and depreciation of property, plant and equipment, year-end closing and financial operation analysis to facilitate preparation of the trial balance and financial statements. In addition, this division coordinates activities related to the annual city audit, provides financial information as processed by the Oracle system, and performs other related tasks.

**The Financial Planning Division** is responsible for coordination, development, implementation and monitoring activities related to the DWSD operation and maintenance (O&M) budget, water supply and sewage treatment system service rates and charges, coordination of system revenue bond financing, and other related functions for the department.

**The Internal Audit Division** facilitates departmental internal efforts to perform operational audits of transactions, procedures, and processes in various areas within DWSD, as well as, analysis and/or other investigative tasks. In addition, this section works with the external auditors to facilitate completion of audit activities. This section reports findings and makes recommendations when necessary to improve performance of operations, accountability, ensure appropriate accounting controls, and safeguard the department's assets.

**The Materials Management Division** consists of Stores Operations, Operations Support, Inventory Audit, Management Support, and Employee Support sections. When combined, these sections make available a supply of goods and services necessary to support DWSD in its mission at all times, under all conditions, at an optimum value per dollar spent while maintaining public confidence. To accomplish this mission, Materials Management recommends policies and procedures, executes approved policies and procedures regarding inventory control, operates and maintains fuel dispensing and storage systems, stocks materials, creates and tracks new stock numbers, collects waste materials, interdepartmental mail delivery, and auditing the preceding functions. The division also provides limited moving, transportation and warehousing services for materials and equipment.

**The Purchasing Division** ensures goods and services are purchased in the most efficient manner, are delivered by the date needed, at the maximum end-use value per dollar spent with the quality specified, and to assure that the department has complied with all federal, state and local laws, statues, ordinances, and executive orders that pertain to the procurement process. To accomplish this mission, the Purchasing Division, under the guidance of the Chief Procurement Officer in the Finance Department, recommends & executes policies and procedures to maintain a fair and equitable bid solicitation process, process emergency purchase order/contract, expedites PO deliveries & field operation usage, and resolves of any conflicts that may result in untimely purchase order supplier payments.

**The Capital Management Group** prepares and manages the Department's multi-billion dollar Capital Improvement Program (CIP). The CIP is a rolling five year plan to finance capital projects that are grouped together to accomplish the goal of replacing or improving the efficiency and reliability of the Department's water and wastewater facilities and services. Based on DWSD changing needs and challenges to serve its customers, the Capital Management Group (CMG) reviews and makes recommendations to Management on proposed projects submitted for CIP consideration as well as coordinates the efforts in developing project proposals and project execution plans. In addition, the CMG: tracks and analyzes performance and compliance of the CIP on an ongoing basis; communicates information to Management sorted and arranged in ways that will promote efficient and effective decision making; provides financial information and reports concerning the CIP to Management and the

## **WATER (41)**

Financial Services Group; maintains the central depository for CIP data and information known as the CIPMS database; and assists in incorporating the Department wide, 50 year CIP Master Plan projects in a timely manner.

**Customer Billing and Management System (CBMS)** supports various applications and functions of the commercial operations, accounting and finance, meter operations and maintenance and repair divisions within the Department. The CBMS division is responsible for maintenance and functional issues, coordinating system updates/upgrades, and preparing reports that provide financial and operational information. CMBS supports the enQuesta 3E, iNovah Cashiering System, ReportNet and WebConnect.

### GOALS:

1. To develop and implement fair, equitable water and sewage rates and charges to all system customers using uniform rate methodologies.
2. Improve the integrity and timeliness of posting accounting transactions via the use of the City's Detroit Resource Management System (DRMS), prepare financial statements, perform employee training, and improve customer service.
3. Maintain and/or strive to achieve revenue bond credit rating upgrades for both systems through continual review and improvement of operational, financial and management policies internal and external to the department.
4. Improve budgetary development and monitoring activities via use of enhanced technology (the City's Budget Resource and Support System-BRASS), business processes and continued employee training in all respective areas, and in the long run reduce operational expenditures, where possible, emphasizing operational efficiency department-wide.
5. Perform appropriate internal audit activities, provide recommendations where necessary to facilitate the improvement of operational performance, accountability, ensure appropriate accounting controls, and safeguard the department's assets.
6. Ensure that DWSD has a well-integrated inventory and warehouse system that result in lower inventory and operational costs while customer service levels are maintained or improved. Inventory management must ensure that stock is available while reducing inventory costs; and the warehouse management function must increase productivity and reduce costs by streamlining the physical process of warehousing and producing fewer mistakes.

### MAJOR INITIATIVES FOR FY 2010-11:

- Upgraded the Customer Billing and System Management (CBMS) to implement online bill payment, service requests, and retail budget plan requests.
- Improve the bid solicitation process by changing from hard copy U.S. mail distribution to e-mail. This will enable our division to save money while reducing process time.
- Established an expenditure review process for payment of contractual services.
- Completed the CAFR and stand alone statements on time.

### PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Improve customer service for our internal and external customers by creating outreach opportunities to educate them on what is their role in the procurement process.
- Establishing a pre-qualified vendors list for our critical needs commodities to reduce processing time while strengthening relationships with our vendors.

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### FINANCIAL SERVICES MEASURES AND TARGETS

<b>Type of Performance Measure:</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>
List of Measures	Actual	Actual	Projection	Target
<b>Inputs: Resources Allocated or Service Demands Made</b>				
DWSD Staff Training Workshops	6	6	6	6
PO's Processed	6,538	6,000	6,250	6,300
Requisitions Assigned	8,617	8,000	8,500	8,600
<b>Activity Costs</b>	<b>\$19,957,509</b>	<b>\$19,997,198</b>	<b>\$6,230,521</b>	<b>\$6,353,132</b>



**CITY OF DETROIT**

**Water**

**Financial Detail by Appropriation and Organization**

<b>Office of Assistant Director of Financial S</b>	<b>2010-11 Redbook</b>		<b>2011-12 Dept Final Request</b>		<b>2011-12 Mayor's Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION ORGANIZATION</i>						
00086 - Financial Services Group						
412010 - Office of Assistant Director of Financie	2	\$1,209,365	2	\$245,728	2	\$239,883
412020 - Financial Administrative Services	8	\$211,572	8	\$314,020	8	\$287,099
412030 - Budget/Fiscal Reporting	0	\$2,150	0	\$1,978	0	\$1,978
412040 - Rates	0	\$459,789	0	\$239,117	0	\$239,117
412080 - General Accounting Administrative Se	55	\$1,524,055	58	\$2,803,023	58	\$3,040,616
412090 - Financial Reporting	0	\$5,000	0	\$4,598	0	\$4,598
412100 - Fixed Assets/Inventory/Payables	0	\$506,100	0	\$407,218	0	\$407,218
412110 - Cash Management	0	\$31,800	0	\$32,947	0	\$32,947
412220 - Purchasing	19	\$708,998	19	\$653,773	19	\$596,675
412230 - Material Management	63	\$1,502,266	63	\$1,586,833	63	\$1,439,104
412235 - Water Plant Stores	0	\$9,077	0	\$8,392	0	\$8,392
412240 - West Yard Warehouse	0	\$4,500	0	\$4,146	0	\$4,146
412245 - CSF - Warehouse	0	\$27,700	0	\$25,427	0	\$25,427
412250 - Operations Support	0	\$8,225	0	\$7,623	0	\$7,623
412255 - Inventory Audit	0	\$7,030	0	\$6,479	0	\$6,479
412260 - Automotive Stores	0	\$12,894	0	\$11,830	0	\$11,830
<b>APPROPRIATION TOTAL</b>	<b>147</b>	<b>\$6,230,521</b>	<b>150</b>	<b>\$6,353,132</b>	<b>150</b>	<b>\$6,353,132</b>
<b>ACTIVITY TOTAL</b>	<b>147</b>	<b>\$6,230,521</b>	<b>150</b>	<b>\$6,353,132</b>	<b>150</b>	<b>\$6,353,132</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
<b>AC1041 - Financial Services</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	1,953,171	2,354,807	2,354,807
EMPBENESL - Employee Benef	1,865,145	1,926,355	1,926,355
PROFSVCSL - Professional/Cor	4,420,814	3,377,413	3,377,413
OPERSUPSL - Operating Suppli	183,846	168,859	168,859
OPERSVCSL - Operating Servic	124,380	164,213	164,213
CAPOUTLSL - Capital Outlays/In	514	472	472
OTHEXPSSL - Other Expenses	(2,317,349)	(1,638,987)	(1,638,987)
<i>A41000 - Water Department</i>	6,230,521	6,353,132	6,353,132
<b>AC1041 - Financial Services</b>	<b>6,230,521</b>	<b>6,353,132</b>	<b>6,353,132</b>
<b>Grand Total</b>	<b>6,230,521</b>	<b>6,353,132</b>	<b>6,353,132</b>

## **WATER (41)**

### *ASSET MAINTENANCE GROUP ACTIVITY INFORMATION*

#### ACTIVITY DESCRIPTION: ASSET MAINTENANCE GROUP

The Asset Maintenance Group maintains and repairs equipment, facilities and infrastructure owned and operated by the Detroit Water and Sewerage Department. It also provides maintenance support services to its internal customers such as Water Supply, Systems Control and other operating Divisions of the Department.

**The Plants, Buildings, Grounds and Mechanical Maintenance (MM) Division** provides centralized major maintenance and repair support services at various DWSD buildings and water pumping stations, pressure reducing, and pressure regulating sites. Services provided include electrical, mechanical and other skilled trades expertise as well as housekeeping and grounds maintenance work as needed. It also provides a support operation for equipment repair, calibration or replacements. Equipment maintained includes HVAC and other building equipment, pumps, motors, valves and electrical power generating and distribution equipment. This Division also provides vehicle fleet management for the Department's fleet and mobile construction equipment.

**The Maintenance and Repair (M&R) Division** repairs and maintains the water distribution and transmission systems. The Division is comprised of four (4) districts that maintain all water pipelines as well as associated appurtenances such as fire hydrants, water valve manholes, valves, and water service pipes up to private property lines. Also integral to M&R are the Telecommunications Section, Claims Section, Dispatch Section, and Field Inspection Section, providing quality services to the Department's nearly 4 million customers.

#### GOALS:

The Plants, Buildings, Grounds and Mechanical Maintenance Division goals are:

1. Improve pumping equipment availability and reliability for the maximum utilization of the water plants and water booster stations.
2. Improve buildings and grounds maintenance of unmanned water booster stations.
3. Improve employee safety at work locations and the general efficiency and effectiveness of their support function.
4. Continue to implement effective maintenance strategies for critical pumping and other equipment of water plants and water booster stations to realize potential for increased revenue through reliable pumping services.
5. Continue to implement a management succession – planning program.

The Maintenance and Repair Division goals are:

1. To responsibly manage the water distribution and transmission system to provide safe drinking water at reasonable pressures with minimal interruptions of service.
2. Reducing non-revenue water by aggressively repairing breaks and leaks.
3. Protect public health and safety by ensuring a high level of fire hydrant operability.
4. Maintain divisional training programs to reduce lost time accidents, improve operations, and provide succession training to meet departmental needs.
5. Implement reasonable preventive maintenance programs to proactively manage our water assets at the lowest expense.
6. Maintain a high number of employees who hold the Michigan Department of Environmental Quality Water Distribution Operator "S" license, ensuring a well-trained workforce knowledgeable on the rules and regulations of water system maintenance and operation.

#### MAJOR INITIATIVES FOR FY 2010-11: (Mechanical Maintenance Division)

- Refurbish/Replace two of the Flock Paddler Wheels and Reeves Drives at Northeast Water Treatment Plant.
- Refurbish/Replace existing four Pumps and convert them from the Current Packed Stuffing box design to Mechanical seals at Orion Water Booster station.

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### PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Refurbish and convert two of the existing six Low Lift Pumps at Northeast Water Treatment Plant from Packed stuffing box design to Mechanical seals, every year for the next three years.
- Replace and convert one of the existing six Pumps at Joy Road Booster station to Mechanical seals.
- Complete installation of Electric Power Monitoring meters at all DWSD booster and Sewage Pumping stations in the near future.

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### ASSET MAINTENANCE OPERATIONS MEASURES AND TARGETS

<b>Type of Performance Measure:</b> List of Measures	<b>2008-09</b> Actual	<b>2009-10</b> Actual	<b>2010-11</b> Projection	<b>2011-12</b> Target
<b>Outputs: Units of Activity directed toward Goals -</b>				
Major Pumping Units Availability – Water (Benchmark – 85%)	93%	95%	95%	95%
Sites Maintained	59	59	59	59
Acreage Maintained	1,047	1,047	1,047	1,047
Vehicle Maintenance Performed (Repairs)	6,767	6,300	6,300	6,300
Preventive Maintenance measures implemented on system critical pumping equipment	100%	100%	100%	100%
Main leaks and breaks repaired by Contractor	899	694	700	700
Main leaks and breaks repaired by DWSD forces	373	290	500	500
Service and Curb Box repairs and service kills	8,543	1,776	2,000	2,000
Emergency investigations made	41,849	31,078	31,000	31,000
Gate valves repaired or replaced	688	1,088	1,000	1,000
Fire hydrants repaired or replaced	1,882	3,500	3,500	3,500
<b>Activity Costs</b>	<b>\$127,870,461</b>	<b>\$122,386,095</b>	<b>\$38,393,439</b>	<b>\$38,114,459</b>

**CITY OF DETROIT**  
**Water**  
**Financial Detail by Appropriation and Organization**

<b>Office of Assistant Director Asset Maintainer</b>	<b>2010-11</b>		<b>2011-12</b>		<b>2011-12</b>	
	<b>Redbook</b>		<b>Dept Final</b>		<b>Mayor's</b>	
<b>Asset Maintenance Group</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<b>Request</b>			<b>Request</b>		<b>Budget Rec</b>	
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
00087 - Asset Maintenance Group						
414010 - Office of Assistant Director Asset Maint	7	\$394,997	18	\$939,872	18	\$874,725
414130 - Mechanical Operations Administration	237	\$7,796,918	237	\$7,318,222	236	\$6,701,693
414140 - Ground Maintenance	0	\$43,400	0	\$39,919	0	\$39,919
414150 - Field Operations	0	\$4,138,242	0	\$4,889,172	0	\$4,889,172
414160 - Mechanical Maintenance	0	\$1,471,650	0	\$1,332,746	0	\$1,332,746
414200 - Water Board Building	36	\$1,306,062	36	\$1,624,020	37	\$1,549,878
414240 - Maintenance and Repair 2004	355	\$21,609,700	356	\$20,706,506	355	\$21,462,756
414360 - Central Service Facility	1	\$1,632,470	1	\$1,264,002	1	\$1,263,570
<b>APPROPRIATION TOTAL</b>	<b>636</b>	<b>\$38,393,439</b>	<b>648</b>	<b>\$38,114,459</b>	<b>647</b>	<b>\$38,114,459</b>
<b>ACTIVITY TOTAL</b>	<b>636</b>	<b>\$38,393,439</b>	<b>648</b>	<b>\$38,114,459</b>	<b>647</b>	<b>\$38,114,459</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
<b>AC1541 - Asset Management</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	12,234,059	13,045,547	13,045,547
EMPBENESL - Employee Benef	10,026,885	10,644,367	11,545,971
PROFSVCSL - Professional/Cor	11,704,643	10,952,489	10,952,489
OPERSUPSL - Operating Suppli	2,281,850	2,540,510	2,540,510
OPERSVCSL - Operating Servic	2,323,092	2,014,264	1,112,660
CAPEQUPSL - Capital Equipme	9,000	8,277	8,277
CAPOUTLSL - Capital Outlays/In	90,000	82,767	82,767
OTHEXPSSL - Other Expenses	(276,090)	(1,173,762)	(1,173,762)
<i>A41000 - Water Department</i>	38,393,439	38,114,459	38,114,459
<b>AC1541 - Asset Management</b>	<b>38,393,439</b>	<b>38,114,459</b>	<b>38,114,459</b>
<b>Grand Total</b>	<b>38,393,439</b>	<b>38,114,459</b>	<b>38,114,459</b>

## **WATER (41)**

### ***PLANT OPERATIONS - WATER ACTIVITY INFORMATION***

#### ACTIVITY DESCRIPTION: PLANT OPERATIONS – WATER

**The Water Production Division** operates five water treatment plants and three raw water intakes. The plants are responsible for producing drinking water that meets all state, federal and department standards for quality and safety. The plants are also responsible for producing enough water to meet the demand required during peak season.

**The Water Quality Division** is responsible for the testing and reporting of water quality throughout the distribution system to comply with federal and state Safe Drinking Water Act regulations and to provide data for department use. The Division is responsible for investigating customer complaints, disinfecting and testing new or repaired water mains, and investigating facilities for acceptable water quality. The division is also involved in drinking water research projects and source water protection programs.

#### GOALS:

1. Ensure an adequate supply of safe, potable water to all parts of the system.
2. Repair all plant and pumping equipment quickly and efficiently.
3. Increase water system reliability through increased input into the planning process.
4. Respond to all water quality customer complaints by the end of the workday.
5. Continue 100% compliance with drinking water regulations.

#### MAJOR INITIATIVES FOR FY 2010-11:

In the current year, there is one project slated to close, SW-549, Intake Rehabilitation and Improvements for the Southwest Water Treatment Plant.

The active projects proposed for the fiscal year 2010-11 are in Table 1 below. If this budget is approved the projects listed in Table 2 will be issued a notice to start. All the projects listed in Tables 1 and 2 are mandated by regulatory requirements or required to maintain or improve Water Supply Operations compliance with all state, federal and department standards for quality, system reliability and safety.

**Table 1**

<b>Contact No.</b>	<b>Project Description</b>	<b>Time Frame</b>
CS-1425	Springwells Filter Rehabilitation and Auxiliary Facilities Improvements	2010 to 2015
CS-1430	Northeast Filtration System Rehabilitation	2010 to 2015
NE-376	Northeast Pumping Station Improvements	2010 to 2011
DWS-867	Chemical Treatment System Modifications at Northeast, Springwells, Lake Huron and Southwest	2010 to 2012
SP-568	Rehabilitation of Reservoir No. 1 at Springwells	2010 to 2012
CS-1475	Northeast Flocculation / Sedimentation Basin Upgrade	2010 to 2015
SW-548	Construction of a Sludge and Waste Washwater Treatment facility for Southwest	2010 to 2014
SW-550	Rehabilitation of Chemical Tanks, Loading Dock and HVAC systems at Southwest	2010 to 2012
LH-396	Construction of Baffle Walls in Clearwell No.1 at Lake Huron	2010 to 2012
IH-106	Southwest Filtration Improvements and Construction	2010 to 2015
LH-395	Lake Huron Purchase and Installation of Variable Frequency Drives on Low Lift Pumps	2010 to 2011
CS-1474	Replacement of High Lift and Low Lift Pumps at Springwells	2010 to 2015
CS-1305	Oversight of Waste Washwater and Sludge Disposal at Lake Huron, Southwest, Northeast and Springwells Plants	2010 to 2014



## WATER (41)

**Table 2**

<b>Contract No.</b>	<b>Project Description</b>	<b>Time Frame</b>
WW-536	Yard Piping, Valves and Venturi Meter Replacement at Water Works Park	2010 to 2013
NE-378	Rehabilitation of Filtration system at Northeast	2011 to 2015
CS-1494	Replacement of High Lift Pumps and other facility improvements at Northeast	2010 to 2015

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

There is a tremendous need to recruit, retain and do succession planning to tackle the workforce challenges that exist and are on-going for the Water Supply Division of this department. Retirements are happening in droves and knowledge retention is a definite challenge facing this division. Based on the data last available 20% of critical staff could retire in less than five years. The development of a strategic plan to contend with the rising rates of retirement, fewer workers to fill vacancies and lack of skilled candidates to fill job openings is crucial to our continued success in meeting all state, federal and department standards for quality and safety. Water Supply Operations will continue to work closely with Human Resources to find viable solutions to workforce issues. For instance, the review and update of job specifications, external recruitment to bridge the gap in filling operational vacancies, salary adjustments to make positions attractive to the current market, open competitive recruitment to fill entry-level positions and succession and leadership planning to ensure an adequate pool of candidates for managerial positions.

In October 2007, the Water Quality Division initiated monitoring for the Stage 2, Disinfectants and Disinfectant By-Product Rule (DDBPR-2) promulgated in January 2006. This rule requires an Initial Distribution System Evaluation (IDSE) for disinfectant and disinfectant-by-products. The IDSE required testing every other month for one year in the City of Detroit distribution system. During this time the Disinfectants and Disinfectant-By-Product Rule, Stage 1 (DDBPR-1) quarterly testing continued in the Detroit and suburban distribution systems. After completing this one-year evaluation in August 2008, the IDSE report was timely submitted by the due date of January 1, 2009, to the EPA, followed by the Stage 2 sampling plan with implementation of the plan in 2012.

The Long Term 2 Enhanced Surface Water Treatment Rule requiring source water testing for Cryptosporidium was completed in September 2008 with bin classification calculations due to the EPA in March of 2009. DWSD is classified in bin one which requires no additional treatment. A second round of sampling must begin by April 2015.

The Federal Advisory Committee met in November of 2007 to discuss revisions in the Total Coliform Rule (TCR). The revisions will take place sometime after 2008. The 1989 TCR set health goals and legal limits and the type and frequency of testing for the presence of total coliforms, fecal coliforms and or E. coli, in drinking water. The EPA has two reasons to revise this regulation. The first, the microbial/disinfection by-product the Federal Advisory Committee recommended an evaluation of distribution systems for regulatory actions. The second, the EPA is assessing the effectiveness of the current TCR at reducing public health risk, and assessing new technology that would reduce the financial burden, while maintaining or improving public health protection

Triennial testing for LCR starts June 1, 2011, and runs till September 30, 2011. Changes in the TCR will most likely occur in 2012. The new sampling plan for DDBPR testing in the Detroit distribution system begins in 2012. Radiological testing will be conducted in 2011 and 2014. The Long Term 2 Enhanced Surface Water Treatment Rule 2<sup>nd</sup> round of source water testing for Cryptosporidium will begin in April 2015.

## WATER (41)

### *PLANT OPERATIONS - WATER MEASURES AND TARGETS*

<b>Type of Performance Measure:</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>
List of Measures	Actual	Actual	Projection	Target
<b>Inputs: Resources Allocated or Service Demands Made</b>				
Tons of chlorine used	1,639	1,548	1,700	1,700
Tons of fluoride used	4,335	4,049	4,500	4,500
Tons of alum used	12,646	10,810	13,000	13,000
Tons of Phosphate (corrosion control)	1,291	1,189	1,350	1,350
<b>Activity Costs</b>	<b>\$96,945,709</b>	<b>\$75,520,460</b>	<b>\$62,004,416</b>	<b>\$59,787,312</b>

**CITY OF DETROIT**

**Water**

**Financial Detail by Appropriation and Organization**

<b>Office of Assistant Director of Water Oper Water Operations Group</b>	<b>2010-11 Redbook</b>		<b>2011-12 Dept Final Request</b>		<b>2011-12 Mayor's Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION ORGANIZATION</i>						
00088 - Water Operations Group						
415010 - Office of Assistant Director of Water C	6	\$465,101	6	\$332,874	6	\$322,987
415020 - Water Works Park	47	\$12,824,856	47	\$12,152,776	47	\$11,987,978
415030 - Springwells Plant	48	\$14,921,841	54	\$14,789,401	54	\$14,621,122
415040 - Northeast Plant	30	\$11,409,739	30	\$11,498,272	30	\$11,381,687
415050 - Southwest Plant	31	\$7,539,929	31	\$7,031,707	31	\$6,926,838
415060 - Lake Huron Plant	29	\$13,242,082	29	\$12,401,237	29	\$12,285,991
415390 - Water Quality	13	\$1,600,868	13	\$1,581,045	13	\$2,260,709
<b>APPROPRIATION TOTAL</b>	<b>204</b>	<b>\$62,004,416</b>	<b>210</b>	<b>\$59,787,312</b>	<b>210</b>	<b>\$59,787,312</b>
<b>ACTIVITY TOTAL</b>	<b>204</b>	<b>\$62,004,416</b>	<b>210</b>	<b>\$59,787,312</b>	<b>210</b>	<b>\$59,787,312</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	<b>2010-11 Redbook</b>	<b>2011-12 Dept Final Request</b>	<b>2011-12 Mayor's Budget Rec</b>
<b>AC2041 - Plant Operations - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	9,729,514	9,876,563	9,876,563
EMPBENESL - Employee Benef	7,619,016	8,046,782	7,327,076
PROFSVCSL - Professional/Cor	2,549,483	2,175,599	2,175,599
OPERSUPSL - Operating Suppli	13,942,052	14,484,091	14,484,091
OPERSVCSL - Operating Servic	27,856,901	24,909,679	24,909,679
OTHEXPSSL - Other Expenses	307,450	294,598	1,014,304
<i>A41000 - Water Department</i>	<i>62,004,416</i>	<i>59,787,312</i>	<i>59,787,312</i>
<b>AC2041 - Plant Operations - Water</b>	<b>62,004,416</b>	<b>59,787,312</b>	<b>59,787,312</b>
<b>Grand Total</b>	<b>62,004,416</b>	<b>59,787,312</b>	<b>59,787,312</b>

## **WATER (41)**

### ***ENGINEERING SERVICES GROUP ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: ENGINEERING SERVICES GROUP-WATER**

Engineering Services Group provides engineering services to the remaining four (4) operational groups within the department. The Group consists of four (4) broad functional groups: Engineering/Administrative Support, Facilities Design, Urban and Suburban Plan Review, and Field Engineering Groups. A description of each group follows:

**The Engineering Administrative Support Group** is headed by the Assistant Director of Engineering Services. This person acts as general manager providing overall guidance and direction to the four (4) subgroups. The Superintendent of Engineering guides execution of the day-to-day engineering/contract activities. The Engineering and Administrative Support section provides general support to the Division's other three (3) groups. Support activities include fiscal projection and management, human resources management, material resources management, organizational development and training, statistical operations reporting, project accounting and reporting, and property management.

**The Facilities Design Group** directs and coordinates the preparation of design reports, cost estimates, and plans and specifications, by in-house or consultant forces, and acts as a resource for construction field engineering staff efforts for projects related to Department locations and facilities excluding the Wastewater Treatment Plant and sewage pumping stations. All design work related to water production, pumping, metering and storage facilities is serviced by this group.

**The Urban and Suburban Plan Review Group** directs and coordinates the review of plans. This group is also responsible for the maintenance of all maps and records associated with the water and sewer system.

**The Field Engineering Group** plans, directs, and coordinates field engineering personnel in ongoing construction management of water mains, sewers, building construction, and equipment installation contracts; provides construction inspection services to the Wastewater Design and Construction Group as necessary to support that group's efforts; insures the structural integrity of systems during new and alteration construction work; initiates change orders; and provides locations stake-out under the Miss Dig system.

#### **GOALS:**

1. To perform the related functions of these divisions by reasonably and conservatively coordinating and managing resources via each operational group.
2. To insure that all engineering designs are in compliance with all federal, state and local agency requirements.
3. To insure that all water facilities are constructed in conformity with the plans and specifications, and those specifications are functional.

#### **MAJOR INITIATIVES FOR FY 2010-11:**

- SW-548: Waste Wash water and Sludge Treatment Facility at Southwest Water Treatment Plant Design completed, advertised in June 2009 is under construction.
- CS-1475: Sludge Treatment and Flocculation and Sedimentation Basins Upgrade at Northeast Water Treatment Plant was advertised; contract is under design.
- CS-1494: Filter Media, Chemical Feeds and Electrical Improvements at Northeast Water Treatment Plant were advertised and bids are evaluated; contract has been awarded to the contractor.
- WW-536: Water Works Park Yard Piping Replacement was designed under CS-1481, Task 3 and preparing contract documents for advertisement is ongoing.
- CS-1481, Task 5: Basis of Design for State Fair Valve Relocation at Northeast Water Treatment Plant is completed and preparation of contract documents for advertisement is underway.
- CS-1425: 1958 Filter Rehabilitation and Auxiliary Facilities Improvements at Springwells Water Treatment Plant and design is 95% complete.
- CS-1430: Rehabilitation of Filtration System at Northeast Water Treatment Plant was awarded and design is 80% complete.

## **WATER (41)**

- CS-1474: Replacement of High Lift and Low Lift Pumping Units at Springwells Water Treatment Plant contract was awarded and validation Study completed.
- CS-1481: Task 7, Replacement of Variable Frequency Drives 7, 8, and 9 at North Service Center - Design has been completed and delivered to Mechanical Maintenance Division for Construction.
- LH-395, Providing Variable Frequency Drives for Three High Lift Pumping Units at Lake Huron Water Treatment Plant is completed.
- SW-550: HVAC and Alum Tank Improvements at Southwest Water Treatment Plant - The Design/Build contract is under construction.

### PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- SW-551: Rehabilitation of Venturi meters and Vaults at Southwest Water Treatment Plant - The construction contract is anticipated to be advertised in 2011.
- SP-563: 1958 Filter Rehabilitation and Auxiliary Facilities Improvements at Springwells Water Treatment Plant - The construction contract is anticipated to be advertised in 2011.
- Low Lift Exciter, Electrical Instrumentation and Controls Upgrades at Northeast Water Treatment Plant.
- High Lift & Low Lift Pump Station, Administration Building, Chemical Building and System at Springwells Water Treatment Plant.
- Design Services for Major Pumping Improvements at Northeast Water Treatment Plant.

**CITY OF DETROIT**  
**Water**  
**Financial Detail by Appropriation and Organization**

<b>Office of Assistant Director of Engineering Engineering Services - Water</b>	<b>2010-11 Redbook</b>		<b>2011-12 Dept Final Request</b>		<b>2011-12 Mayor's Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
05817 - Engineering Services - Water						
413010 - Office of Assistant Director of Enginee	1	\$94,957	1	\$219,204	1	\$212,961
413020 - Engineering Administrative Support	135	\$3,110,382	124	\$2,368,241	119	\$2,374,484
413030 - Field Engineering Group	0	\$119,260	0	\$151,916	0	\$151,916
413040 - Water System	0	\$254,510	0	\$13,335	0	\$13,335
413050 - Facilities Design	0	\$24,760	0	\$22,730	0	\$22,730
<b>APPROPRIATION TOTAL</b>	<b>136</b>	<b>\$3,603,869</b>	<b>125</b>	<b>\$2,775,426</b>	<b>120</b>	<b>\$2,775,426</b>
<b>ACTIVITY TOTAL</b>	<b>136</b>	<b>\$3,603,869</b>	<b>125</b>	<b>\$2,775,426</b>	<b>120</b>	<b>\$2,775,426</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
<b>AC2541 - Engineering Services - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	1,521,609	1,096,075	1,096,075
EMPBENESL - Employee Benef	1,329,796	890,191	890,191
PROFSVCSL - Professional/Cor	223,500	241,956	241,956
OPERSUPSL - Operating Suppli	84,066	73,050	73,050
OPERSVCSL - Operating Servic	554,068	533,623	533,623
OTHEXPSSL - Other Expenses	(109,170)	(59,469)	(59,469)
<i>A41000 - Water Department</i>	3,603,869	2,775,426	2,775,426
<b>AC2541 - Engineering Services - Water</b>	<b>3,603,869</b>	<b>2,775,426</b>	<b>2,775,426</b>
<b>Grand Total</b>	<b>3,603,869</b>	<b>2,775,426</b>	<b>2,775,426</b>



## **WATER (41)**

### ***WATER CAPITAL ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: WATER – CAPITAL PROGRAM**

The Water Capital Program for the Water Supply System is a five-year plan devoted to rehabilitating and improving existing water treatment plants, pumping stations, system instrumentation, and water meters; replacing deteriorated water distribution mains in the City of Detroit and suburban service area; installing new mains or re-routing existing mains to accommodate new development throughout the City of Detroit; automating the meter reading function; upgrading the instrumentation and process control equipment of the water transmission system; and constructing additional transmission mains and pumping facilities in order to loop the transmission system and bring in more water to the service area from the water treatment plants.

#### **GOALS:**

Provide essential, efficient and user-friendly services by:

- Renovating, improving or replacing water plants, pump stations, transmission and distribution mains, and other facilities to ensure a safe and adequate potable water supply.
- Continuing the water main replacement program aimed at reducing the number of main breaks and leaks in the City of Detroit, thereby improving service, increasing public safety, and lowering costs to Detroit customers.
- Automating the meter reading function for the City of Detroit to more accurately measure and bill for water service provided.
- Continuing to computerize various departmental functions to reduce costs and improve operations.
- Constructing those additional mains, booster stations and reservoirs required to ensure an adequate water supply to all existing and new customers.

## WATER (41)

### WATER CAPITAL MEASURES AND TARGETS

<b>Type of Performance Measure:</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>
List of Measures	Actual	Actual	Projection	Target
Facilities – Metro Area Construction (12 projects)	35,773,287	9,513,598	7,044,000	27,670,000
Facilities – Urban System Improvements (23 projects)	25,049,173	14,959,202	20,595,000	24,130,000
Facilities – Mechanical Maintenance (3 projects)	17,081,411	15,077,934	6,200,000	1,000,000
Facilities – Computer Systems (14 projects)	3,523,951	5,480,333	2,600,000	2,815,000
Plant Replace & Renovate – General Plant (26 projects)	24,308,204	19,780,353	15,363,000	22,942,000
Plant Replace & Renovate – Water Works Park (8 projects)	N/A	N/A	5,500,000	16,000,000
Plant Replace & Renovate – Springwells (8 projects)	1,809,509	7,787,621	5,077,000	29,080,000
Plant Replace & Renovate – Northeast (5 projects)	1,809,509	2,621,101	2,223,000	13,835,000
Plant Replace & Renovate – Southwest (6 projects)	225,068	496,216	22,540,000	22,164,000
Plant Replace & Renovate – Lake Huron (3 projects)	12,875,883	2,223,266	852,000	2,003,000
Plant Replace & Renovate – Pump Sta & Reserv. (10 projects)	13,412,213	7,398,567	8,575,000	3,562,000
Total Number of Projects	101	85	72	59
<b>Activity Costs - Total Value of Projects</b>	<b>\$328,096,129</b>	<b>\$279,047,832</b>	<b>\$211,554,900</b>	<b>\$522,133,100</b>

**CITY OF DETROIT**  
**Water**  
**Financial Detail by Appropriation and Organization**

<b>Bond Principle &amp; Interest Redemption Fur</b>	<b>2010-11 Redbook</b>		<b>2011-12 Dept Final Request</b>		<b>2011-12 Mayor's Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION ORGANIZATION</i>						
00163 - Debt Service and Maintenance						
417010 - Bond Principle & Interest Redemption	0	\$164,258,400	0	\$164,909,500	0	\$164,909,500
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$164,258,400</b>	<b>0</b>	<b>\$164,909,500</b>	<b>0</b>	<b>\$164,909,500</b>
00164 - Water System Improvements						
417030 - Improvement and Extension Water Sy	0	\$40,349,200	0	\$56,244,400	0	\$56,244,400
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$40,349,200</b>	<b>0</b>	<b>\$56,244,400</b>	<b>0</b>	<b>\$56,244,400</b>
00583 - Water Extraordinary Repair and Replacerr						
417060 - Water Extraordinary Repair and Reple	0	\$1,062,200	0	\$534,100	0	\$534,100
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$1,062,200</b>	<b>0</b>	<b>\$534,100</b>	<b>0</b>	<b>\$534,100</b>
05733 - Reserve Deposit						
417020 - Debt Service Reserve	0	\$5,885,100	0	\$445,100	0	\$445,100
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$5,885,100</b>	<b>0</b>	<b>\$445,100</b>	<b>0</b>	<b>\$445,100</b>
12140 - Water Bond Fund Series 2007						
417161 - Water Bond Fund Series 2007	0	\$0	0	\$300,000,000	0	\$300,000,000
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$300,000,000</b>	<b>0</b>	<b>\$300,000,000</b>
<b>ACTIVITY TOTAL</b>	<b>0</b>	<b>\$211,554,900</b>	<b>0</b>	<b>\$522,133,100</b>	<b>0</b>	<b>\$522,133,100</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	<b>2010-11 Redbook</b>	<b>2011-12 Dept Final Request</b>	<b>2011-12 Mayor's Budget Rec</b>
<b>AC3041 - Water - Capital and Debt Service</b>			
<i>A41000 - Water Department</i>			
CAPEQUPSL - Capital Equipme	7,500,000	7,500,000	7,500,000
OTHEXPSSL - Other Expenses	39,796,500	349,723,600	349,723,600
FIXEDCHGSL - Fixed Charges	164,258,400	164,909,500	164,909,500
<i>A41000 - Water Department</i>	<i>211,554,900</i>	<i>522,133,100</i>	<i>522,133,100</i>
<b>AC3041 - Water - Capital and Debt Service</b>	<b>211,554,900</b>	<b>522,133,100</b>	<b>522,133,100</b>
<b>Grand Total</b>	<b>211,554,900</b>	<b>522,133,100</b>	<b>522,133,100</b>

## **WATER (41)**

### ***INFORMATION TECHNOLOGY AND SYSTEMS INTEGRATION AND OPERATION ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: INFORMATION TECHNOLOGY AND SYSTEMS INTEGRATION AND OPERATION**

The Information Technology and Systems Integration and Operation Group consists of three (3) divisions and two (2) sections, which brings together many systems critical to DWSD to form a network of electronic and digital data systems that support the overall operation of the Department and reduce energy cost, especially the distribution of potable water and the collection of sewage for treatment. The divisions reporting to the Information Technology and Systems Integration and Operation Group include the following:

**Process Networks and SCADA Systems (PN&SS)** supports various operations within the Department and provides Supervisory Control and Data Acquisition network and hardware oversight and maintenance for the water distribution system and wastewater collection system to assure the efficient operation of the DWSD Systems Control Center (SCC). PN&SS coordinates implementing enhancements to be made to the control and monitoring operation of SCC, Water Treatment Plants, Wastewater Treatment Plant, and the distribution and collection systems. PN&SS provides Security with network communications support via Opt-E-MAN for the wide-area network and internal switching for the local area network.

**Geographic Information Systems (GIS)** provides all DWSD stakeholders with electronic access to engineering drawings, maps, records, tables, aerial photography, and other geographically referenced information through an intranet based interface. A powerful desktop GIS tool (DWSD Spatial Data Management System) allows privileged users to create, update and query data.

**Security Networks** supports a robust network which the Security Division uses to provide all DWSD employees, contractors and visitors with electronic access to DWSD facilities. The functional security network contains badge access and security cameras to provide a safe and secure environment for all DWSD employees, contractors and visitors.

**Information Systems** manages, maintains and services; servers, computers, networks (LAN/WAN), telephones and application software used in the business network for the Department. It also supports systems such as EMPAC and CBMS. Information Systems also provides services and support for radio systems, both voice and data, including monitoring of the radio reporting activity for the billing system.

**Systems Control Center** is directly responsible for pumping treated water to 126 communities and providing wastewater collection services to 78 communities. It remotely operates 22 water pumping stations for the water distribution system and 12 sewage pumping stations for the wastewater collection system from the new Systems Control Center (SCC). SCC has the flexibility to meet changing water demands, to adapt to variations of wastewater flow and to generate valuable data of conditions occurring throughout the system. The SCC operates within guidelines of State of Michigan Regulatory Agencies.

#### **GOALS:**

1. Minimize process downtime due to systems failure and ensure collection of regulatory required data.
2. Develop and implement sound control systems administrative practices.
3. Ensure that new process control systems follow DWSD control and regulatory standards.
4. Ensure that data incorporated into the GIS is accurate, current, complete and compatible.
5. Create custom maps and tables graphics driven by customer requests.
6. Be the driving force behind making GIS the map and records drawings repository.
7. Improve the quality of Information Systems services delivered to DWSD personnel.
8. Reduce the "unit cost" of delivering services.
9. Improve communications with the department generally.
10. Provide the customers with adequate pressures and flows of treated water.
11. Operate the wastewater collection system to maximize treatment and minimize combined sewer overflows.

## **WATER (41)**

12. Develop calibration procedures for process controls instruments.
13. Enhance the email system in the department.

### MAJOR INITIATIVES FOR FY 2009-10:

- Upgrade business network storage equipment at WWTP and GIS.
- Establish evergreening program for process control equipment.
- Train staff as needed.
- Recruit and hire additional staff.
- Right size the ITSIO Group.
- Maintain budgets.
- Knowledge transfer.
- At expiration lease ship Sun Ray hardware back to Tip Capital.
- Sewage billing to use SCADA data in place of Telog.
- Review and enhance performance measures.
- Develop a web-base application for sewerage data for customer use.
- Install blade servers on IT network
- Develop and put in use Sharepoint Dashboard.

### PLANNING FOR THE FUTURE FOR FY 2010-11, FY 2011-12 and BEYOND:

- Upgrade business network storage equipment at WWTP and GIS.
- Establish evergreening program for process control and business network equipment.
- Train staff as needed.
- Knowledge transfer.
- Update the process control network equipment as needed.
- Optimize the use of the SCADA system and data.
- Upgrade and optimize the performance of the business network-install a new firewall.
- Initiate the consolidated critical systems project.
- RFP for Data Center improvements.
- RFP for Security Network improvements.
- RFP for Radio Network upgrades.
- Place GIS into production for departmental use.

## WATER (41)

### *INFORMATION TECHNOLOGY AND SYSTEMS INTEGRATION AND OPERATION MEASURES AND TARGETS*

<b>Type of Performance Measure:</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>
List of Measures	Actual	Actual	Projection	Target
<b>Outputs: Units of Activity directed toward Goals</b>				
Average Time to Resolve Help Desk Tickets	N/A	10	10	7 days
<b>Activity Costs</b>	<b>\$32,964,011</b>	<b>\$28,039,130</b>	<b>\$24,101,708</b>	<b>\$25,261,043</b>

**CITY OF DETROIT**

**Water**

**Financial Detail by Appropriation and Organization**

<b>Asst Dir - Info Tech &amp; Sys Integration &amp; O</b>	<b>2010-11 Redbook</b>		<b>2011-12 Dept Final Request</b>		<b>2011-12 Mayor's Budget Rec</b>	
	<b>Info Tech &amp; Systems Integration &amp; Org:</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
12448 - Info Tech & Systems Integration & Organiz						
411011 - Asst Dir - Info Tech & Sys Integration	6	\$338,225	6	\$347,548	6	\$329,746
411014 - Geographic Information Systems (GIS	3	\$418,155	3	\$387,760	3	\$378,807
411016 - Process Networks and SCADA Syster	20	\$1,244,212	23	\$1,987,233	23	\$1,913,315
411018 - Radio/SCADA Infrastructure Support	0	\$143,000	0	\$371,263	0	\$371,263
411115 - Information Systems Administrative S	49	\$3,215,622	49	\$3,052,617	49	\$3,322,853
411125 - Applications Support	0	\$160,000	0	\$118,664	0	\$118,664
411135 - Software Support	0	\$194,500	0	\$251,018	0	\$251,018
411145 - Hardware Support	0	\$537,500	0	\$786,483	0	\$786,483
411155 - Strategic Planning	0	\$30,000	0	\$27,384	0	\$27,384
411165 - Network Support	0	\$215,910	0	\$919,782	0	\$919,782
411285 - Systems Operations Control	34	\$2,660,907	34	\$2,860,740	34	\$2,741,781
411295 - Water Technical Services	7	\$530,759	7	\$790,421	7	\$759,975
411305 - Operational Services	9	\$468,503	9	\$398,707	9	\$378,549
411311 - Pumping Station - Ford Road	0	\$677,540	0	\$599,019	0	\$599,019
411316 - Pumping Station - Eastside	0	\$64,787	0	\$60,370	0	\$60,370
411321 - Pumping Station - Northwest	0	\$36,290	0	\$33,816	0	\$33,816
411326 - Pumping Station - West Service Cent	0	\$969,868	0	\$903,744	0	\$903,744
411331 - Pumping Station - Michigan Avenue	0	\$112,847	0	\$105,157	0	\$105,157
411336 - Pumping Station - West Chicago Roa	0	\$67,575	0	\$62,968	0	\$62,968
411341 - Pumping Station - Electric Avenue	0	\$50,000	0	\$46,591	0	\$46,591
411346 - Pumping Station - Orion Township	0	\$75,000	0	\$69,887	0	\$69,887
411351 - Pumping Station - North Service Cent	0	\$2,532,673	0	\$2,360,000	0	\$2,360,000
411356 - Pumping Station - Adams Road	0	\$1,037,488	0	\$966,754	0	\$966,754
411361 - Pumping Station - Newburgh	0	\$472,371	0	\$440,166	0	\$440,166
411366 - Pumping Station - Franklin Road	0	\$1,092,388	0	\$1,017,910	0	\$1,017,910
411371 - Pumping Station - Roseville	0	\$12,319	0	\$11,479	0	\$11,479
411386 - Pumping Station - Wick Road	0	\$485,121	0	\$452,046	0	\$452,046
411391 - Pumping Station - Joy Road	0	\$710,758	0	\$662,300	0	\$662,300
411396 - Pumping Station - Schoolcraft	0	\$481,932	0	\$449,075	0	\$449,075
411401 - Pumping Station - Ypsilanti	0	\$439,792	0	\$409,808	0	\$409,808
411406 - Pumping Station - Imlay	0	\$4,260,681	0	\$3,970,196	0	\$3,970,196
411411 - Pumping Station - Rochester	0	\$124,981	0	\$116,460	0	\$116,460



**CITY OF DETROIT**

**Water**

**Financial Detail by Appropriation and Organization**

<b>Pumping Station - Haggerty Road</b>	<b>2010-11</b>		<b>2011-12</b>		<b>2011-12</b>	
	<b>Redbook</b>		<b>Dept Final</b>		<b>Mayor's</b>	
<b>Info Tech &amp; Systems Integration &amp; Org:</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<b>Request</b>					<b>Budget Rec</b>	
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
12448 - Info Tech & Systems Integration & Organiz						
411416 - Pumping Station - Haggerty Road	0	\$240,004	0	\$223,677	0	\$223,677
<b>APPROPRIATION TOTAL</b>	<b>128</b>	<b>\$24,101,708</b>	<b>131</b>	<b>\$25,261,043</b>	<b>131</b>	<b>\$25,261,043</b>
<b>ACTIVITY TOTAL</b>	<b>128</b>	<b>\$24,101,708</b>	<b>131</b>	<b>\$25,261,043</b>	<b>131</b>	<b>\$25,261,043</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
<b>AC3541 - IT &amp; Systems Integration - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	3,101,470	3,188,245	3,188,245
EMPBENESL - Employee Benef	2,536,214	2,584,841	2,584,841
PROFSVCSL - Professional/Cor	5,877,000	8,988,439	8,988,439
OPERSUPSL - Operating Suppli	3,212,920	3,858,117	3,858,117
OPERSVCSL - Operating Servic	13,977,570	13,022,212	13,022,212
OTHEXPSSL - Other Expenses	(4,603,466)	(6,380,811)	(6,380,811)
<i>A41000 - Water Department</i>	24,101,708	25,261,043	25,261,043
<b>AC3541 - IT &amp; Systems Integration - Water</b>	<b>24,101,708</b>	<b>25,261,043</b>	<b>25,261,043</b>
<b>Grand Total</b>	<b>24,101,708</b>	<b>25,261,043</b>	<b>25,261,043</b>

## **WATER (41)**

### ***PUBLIC AFFAIRS ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: PUBLIC AFFAIRS GROUP**

The role of the Public Affairs Group is to support the mission and goals of the department. The Public Affairs Group is responsible for carrying out the policies of the Board of Water Commissioners and the business management of the department. This group consists of three (3) major divisions: Public Affairs, Commercial Operations and Meter Operations.

**The Public Affairs Division** is responsible for developing and implementing strategic communication initiatives that raise awareness of important DWSD activities and programs, and provide for two-way communication on issues important to department stakeholders. This includes compiling and disseminating public information and materials relative to the department's activities through audiovisual, customer, community and media relations, and marketing to better provide retail and wholesale customers, and all state and national stakeholders accurate and up to date information regarding the Water and Sewerage Department. Public Affairs provides complete audiovisual services for DWSD and produces videotaped public service announcements for multimedia broadcast. Public Affairs assists with the dissemination of information and feedback from employees on DWSD plans, programs, and initiatives and promotes a more open and cooperative work environment for all DWSD employees. Public Affairs manages the department's wholesale water and sewerage customer community outreach program.

**The Commercial Operations Division** is responsible for directing, coordinating, processing, and monitoring DWSD retail and suburban wholesale customer billing and collection activities, collection related to delinquent accounts, processing landlord/tenant agreements, bankruptcy claims and other customer service tasks including meter reads, special payment arrangements, coordinating services with other City agencies, schedule customer billing dispute hearings, and other related activities.

**The Meter Operations Division** focuses on the meter maintenance function of the department with an emphasis on meter repair, calibration or replacement for water and wastewater clients (wholesale suburban, residential retail and commercial/industrial). This division also provides much needed instrumentation and controls maintenance support related to the operation of the water production/distribution and wastewater collection systems.

#### **GOALS:**

1. To provide an adequate level of trained personnel to operate the water systems.
2. To implement a comprehensive agency-wide reference source.
3. To ensure widespread internal knowledge of key messages and to develop a well informed employee base.
4. To educate and inform both retail and wholesale customers and the community about important DWSD projects, initiatives, and water issues.
5. Commercial Operations will continue employee training and activities for implementation of all applications of the Customer Billing and Management System to ensure improved customer service, revenue billing and collection efforts. This will reduce service time for Customer Service Representatives and improve service delivery to customers. The introduction of a new bill format will provide a software solution to reduce mailing costs (CASS Mailing Certification Software). The deployment of new ITRON MVRS meter reading software will allow the department to verify occupancy for the properties whose meters were not changed out under the CM-2007 Automated Meter Reading program due to lack of access.
6. The Meter Operations Division goals are to increase residential, commercial/industrial and suburban water and wastewater meter reading accuracy. Improve the billing and revenue collection stream, by eliminating meter outages through preventative maintenance schedules, and calibrating and maintaining all the meters installed in the system.
7. To increase self-service delivery options to the retail customer base.

## **WATER (41)**

### MAJOR INITIATIVES FOR FY 2010-11:

- As part of the upgrade to the Customer Billing and System Management (CBMS) implement online bill payment, service requests, and retail budget plan requests.
- Achieved substantial completion on the city wide Automated Meter Reading change out program under Contract CM-2007 with administrative closeout by the end of the fiscal year. DWSD will continue meter change-out to automated meter reading (AMR).
- Implement enhanced Detroit Residential Water Assistance Program Business Processes.
- Begin payment acceptance of debit/credit cards at customer service center locations.
- Implement new water bill design.
- Implement CASS Mailing Certification Software.
- Implement CHECK 21 Services.
- Implement New ITRON Meter Reading Software.
- Develop information program to raise awareness of new customer service benefits in order to increase customer satisfaction and reduce demands on customer service representatives and centers.
- Develop additional means to raise awareness of DWSD assistance programs.
- Continue to build the library of online resources available to wholesale and retail customers to enhance communication and reduce demands on staff resources. Develop special section for “green technologies.”
- Work with DWSD leadership to educate newly-elected officials about DWSD, its roles and responsibilities, and issues facing water and sewer utilities locally and at the national level.
- Prepare strategic communication initiatives to proactively address issues arising from a new state administration.

### PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Develop e-newsletter to go to Detroit customers who have signed up for online services.
- Explore technologies to utilize online survey tools to identify customer information needs and develop programs to address those needs in order to meet customer demands and reduce customer service resources required.
- With growing use of social media to inform targeted stakeholder groups, explore the appropriateness of incorporating social media tools to communicate important customer service information – including during localized or regional emergencies.
- Analyze technologies that can be employed to encourage more routine two-way communication between DWSD and its wholesale customer communities.
- Amplify DWSD’s community relations/speakers bureau program through personnel training and issue-specific materials development and distribution.
- Using new billing and online technological capabilities, monitor and track customer service inquiries and question. Also, develop communication tools and materials to address questions which will reduce demands on customer service resources.
- Go-Live with an enhanced “Interactive Voice Response” Unit (IVR).
- Begin implementation of Storm Water Drainage Management Module with billing to commence in 1<sup>st</sup> quarter 2012.
- Begin migration of customer name on accounts in place of resident.
- Implement an enhanced Debt Collection Solution.

## WATER (41)

### *PUBLIC AFFAIRS MEASURES AND TARGETS*

<b>Type of Performance Measure:</b> List of Measures	<b>2008-09</b> <b>Actual</b>	<b>2009-10</b> <b>Actual</b>	<b>2010-11</b> <b>Projection</b>	<b>2011-12</b> <b>Target</b>
<b>Inputs: Resources Allocated or Service Demands Made</b>				
Wholesale Meter Replacement	2	10	10	15
Commercial/Industrial Meter Replacement (System Total – 16,000)	8,000	4,000	50	50
Residential Meter Replacement (System Total 260,000)	60,000	80,000	15,000	15,000
<b>Activity Costs</b>	<b>\$118,692</b>	<b>\$16,522,971</b>	<b>\$12,941,598</b>	<b>\$12,787,281</b>

**CITY OF DETROIT**

**Water**

**Financial Detail by Appropriation and Organization**

<b>Office of the Assistant Director -Public Af</b>	<b>2010-11 Redbook</b>		<b>2011-12 Dept Final Request</b>		<b>2011-12 Mayor's Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<b>Public Affairs Group - Water</b>						
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
12758 - Public Affairs Group - Water						
411021 - Office of the Assistant Director -Public	23	\$1,254,132	25	\$808,676	25	\$737,903
411221 - Commercial Operations	193	\$5,965,882	184	\$5,696,989	184	\$5,951,113
411226 - Customer Billing	0	\$1,281,578	0	\$993,702	0	\$993,702
411231 - Customer Service - Detroit	0	\$45,033	0	\$40,915	0	\$40,915
411236 - Collections	0	\$213,056	0	\$341,629	0	\$341,629
411241 - Addressograph	0	\$1,047,389	0	\$960,543	0	\$960,543
411246 - Meter Reading	0	\$28,333	0	\$25,246	0	\$25,246
411251 - Meter Operations	84	\$2,647,465	90	\$2,766,805	87	\$2,583,454
411256 - Meter Records	0	\$15,825	0	\$14,711	0	\$14,711
411261 - Meter Shop	0	\$121,191	0	\$222,295	0	\$222,295
411266 - Meter Instrumentation Shop	0	\$321,714	0	\$915,770	0	\$915,770
<b>APPROPRIATION TOTAL</b>	<b>300</b>	<b>\$12,941,598</b>	<b>299</b>	<b>\$12,787,281</b>	<b>296</b>	<b>\$12,787,281</b>
<b>ACTIVITY TOTAL</b>	<b>300</b>	<b>\$12,941,598</b>	<b>299</b>	<b>\$12,787,281</b>	<b>296</b>	<b>\$12,787,281</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
<b>AC4041 - Public Affairs Group - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	5,152,107	4,998,763	4,998,763
EMPBENESL - Employee Benef	4,268,007	4,103,516	4,103,516
PROFSVCSL - Professional/Cor	4,466,740	4,235,994	4,235,994
OPERSUPSL - Operating Suppli	689,199	662,885	662,885
OPERSVCSL - Operating Servic	2,274,725	2,056,966	2,056,966
CAPOUTLSL - Capital Outlays/In	1,650	1,518	1,518
OTHEXPSSL - Other Expenses	(3,910,830)	(3,272,361)	(3,272,361)
<i>A41000 - Water Department</i>	12,941,598	12,787,281	12,787,281
<b>AC4041 - Public Affairs Group - Water</b>	<b>12,941,598</b>	<b>12,787,281</b>	<b>12,787,281</b>
<b>Grand Total</b>	<b>12,941,598</b>	<b>12,787,281</b>	<b>12,787,281</b>

## **WATER (41)**

### ***PROCESS AND QUALITY CONTROL ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: PROCESS AND QUALITY CONTROL GROUP**

The **Process and Quality Control Division** is responsible for quality control throughout the Water and Sewerage Department. The review and recommendations for the department's Key Performance Indicators and the online performance monitoring tool (PaDs) are housed in this division. The Division is also responsible for the processes and quality control in other areas throughout the department as evidenced by the sections listed below that have critical involvement throughout the department: Document Management Section, Environmental and Regulatory Affairs Section, Safety Section and Training and Education Section. In addition, this Division functions as the liaison between the department and the Human Resources Staff at DWSD.

The **Document Management Section** is responsible for disseminating documents in a timely and efficient manner for DWSD internal customers. The Division is also responsible for a comprehensive Department wide program for Records Management, which includes, but is not limited to: records appraisal, retention and disposition, records protection, records and information management technology. The Document Management Division is responsible for the DWSD Service Improvement Program and serves as liaison between DWSD and City Council, Ombudsman, and the Mayor's Office for inquiries and complaints.

The **Environmental and Regulatory Affairs Section** provides critical assistance to internal customers in handling state and federal regulatory compliance and environmental issues. This Division maintains DWSD Water and Wastewater Service Contracts and Agreements; distributes various regulatory compliance documents relative to EPA, MDNRE, and other electronic legislative information; coordinates and participates in environmental activities with federal, state, and local organizations/universities to build general public awareness; prepares and coordinates the following regulatory reports: the Emergency/Non-Emergency Environmental Response including waste clean-up, hazardous waste removal and disposal, PCB equipment management including transformers and Mercury Minimization Program; management of the Underground and Aboveground Storage Tank (UST/AST) Programs and waste Manifest tracking; SARA Title III Tier Two emergency and Hazardous Chemical Reporting Requirements; Michigan Air Emission Reporting Systems (MAERS); Risk Management Plan (RMP); Process Safety Management (PSM); Spill Prevention Control and Countermeasure Plan (SPCC); Pollution Incident Prevention Plan (PIP); Respiratory Protection Plan (RMP); NPDES Permit Requirements for annual Collection System and CSO Treatment Facilities. The Division also provides information on the Safe Drinking Water Act and Clean Air Act and is the steering committee member of the DWSD health and safety contract; coordinates, monitors, prepares, and distributes the monthly DWSD Status report that updates all activities to be completed per the Second Amended Consent Judgment mandate.

The **Safety Section** plans and develops Department wide safety programs and training for employees; investigates safety problems and issues; enforces Michigan Occupational Safety & Health Administration (MIOSHA) safety standards; facilitates medical bills received from City of Detroit approved Clinics for job injuries; routinely inspects, identifies, and informs the various facilities within DWSD of safety hazards along with instructions for corrective action; and is the Department's central contact for MIOSHA. The Safety Section is also responsible for providing formal and informal training sessions.

The **Training and Education Section** plans, develops and delivers training courses and schedules for Department wide training of employees. Employees in the department are required to have a series of Safety and Occupational Health classes as required by MIOSHA. This section is responsible for delivering the training, documenting the training and maintaining the training records as also required by MIOSHA.



## **WATER (41)**

### GOALS:

1. To provide the services of the Safety Section and the Training Section to the entire department.
2. To provide the required Safety and Occupational Health classes and updates to all DWSD employees as outlined in the regulatory agencies schedule.
3. To increase the number of regular training staff and the number of employees involved in the training program.
4. To inspect each DWSD facility on a routine basis twice a year or once each year for remote locations.
5. To develop and install a document management system which will help DWSD with succession planning efforts.
6. To use performance measures to continually improve effectiveness.
7. To assist the department in achieving an exemplary level of compliance with all regulatory agencies.
8. To create a Safety conscious workforce.
9. To establish a Safety Recognition program in the department.
10. To establish a succession program within our training initiatives.

### MAJOR INITIATIVES FOR FY 2010-11:

- Our major initiative involves most of the sections within the Division. We are working on the development and implementation of a comprehensive online database that will house the training documentation for each employee as required by MIOSHA and other licensing agencies. The system will also capture Safety and EPA inspection, payment and compliance schedules. This system will provide DWSD with a tool, accessible to a broad user group enabling access at multiple locations. This tool will provide the solution to regulatory agency requests for training documentation, no matter the DWSD location.
- On a similar note, we are working on a document management system that will address the archiving, retrieval and disposal of documents in accordance with regulatory guidelines.
- Identify and establish a base of employees knowledgeable in technical areas and proficient in training techniques to supplement the DWSD training program staff. These employees would be provided scheduled training with minimal disruption to their regularly assigned duties and responsibilities.
- Review and consolidate processes and procedures for consistency throughout the department.

### PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Develop an overall succession plan strategy for the entire department that is intimately linked with the Training and Education Section.
- Increase the number of Safety Officers to ensure compliance and training in each critical Safety area.
- Capture and document the standard operating procedures throughout the department as a part of the succession plan strategy.
- Update and standardize the DWSD rules, processes and procedures.

**CITY OF DETROIT**  
**Water**  
**Financial Detail by Appropriation and Organization**

<b>Document Management</b>	<b>2010-11</b>		<b>2011-12</b>		<b>2011-12</b>	
	<b>Redbook</b>		<b>Dept Final</b>		<b>Mayor's</b>	
<b>Process and Quality Control Group</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
13314 - Process and Quality Control Group						
411031 - Document Management	0	\$0	0	\$127,790	0	\$127,790
411066 - Training	0	\$0	0	\$171,131	0	\$171,131
411071 - Safety	0	\$0	0	\$182,984	0	\$182,984
411091 - Environmental and Regulatory Affairs	0	\$0	0	\$815,113	0	\$815,113
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$1,297,018</b>	<b>0</b>	<b>\$1,297,018</b>
<b>ACTIVITY TOTAL</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$1,297,018</b>	<b>0</b>	<b>\$1,297,018</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriations - Summary Objects**

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
<b>AC4541 - Process and Quality Control Service</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	0	451,069	451,069
EMPBENESL - Employee Benef	0	337,371	337,371
OTHEXPSSL - Other Expenses	0	508,578	508,578
<i>A41000 - Water Department</i>	0	1,297,018	1,297,018
<b>AC4541 - Process and Quality Control Ser</b>	<b>0</b>	<b>1,297,018</b>	<b>1,297,018</b>
<b>Grand Total</b>	<b>0</b>	<b>1,297,018</b>	<b>1,297,018</b>

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriation Summary - Revenues**

	2009-10 Actuals	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec	Variance
<b>A41000 - Water Department</b>					
<i>00085 - Administration</i>					
522125 - Swap Termination Fee	91,623	0	0	0	0
<i>00085 - Administration</i>	<i>91,623</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>00087 - Asset Maintenance Group</i>					
447555 - Other Reimbursements	0	402,643	0	0	(402,643)
<i>00087 - Asset Maintenance Group</i>	<i>0</i>	<i>402,643</i>	<i>0</i>	<i>0</i>	<i>(402,643)</i>
<i>00758 - Water Bond Reserve</i>					
461100 - Earnings On Investmer	2,199,266	0	0	0	0
461101 - Unrealized Gain	4,650	0	0	0	0
<i>00758 - Water Bond Reserve</i>	<i>2,203,916</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>04826 - Revenue - Water Receiving</i>					
441100 - Other Labors and Mate	678,657	600,000	600,000	600,000	0
441110 - Other Lbr & Matl Meter	311,280	0	0	0	0
447210 - Water Sales - Retail	49,482,771	88,342,482	87,486,100	87,486,100	(856,382)
447215 - Water Sales - Wholesa	210,662,057	271,648,971	283,704,700	283,704,700	12,055,729
447300 - Other Utility Revenue	20,110,307	0	0	0	0
448115 - Other Fees	22,412	2,150,000	2,900,000	2,900,000	750,000
448170 - Other Fee-Shut Off-Tui	148,320	0	0	0	0
448190 - Illegal Turn on Penalty	13,435	0	0	0	0
448195 - Service Disconnection	1,696,743	0	0	0	0
461100 - Earnings On Investmer	12,796	283,150	282,600	282,600	(550)
462241 - Rent of Building and Sp	136,592	0	0	0	0
464100 - Sales Of City Real Proj	4,410,532	0	0	0	0
471905 - Contributed Revenue	111,777	0	0	0	0
472100 - Other Forfeits And Pen	124,502	0	0	0	0
472117 - Late Payment Fee	1,431,989	0	0	0	0
472150 - Other Miscellaneous	259,200	0	0	0	0
472220 - Ng Check Service Cha	44,169	0	0	0	0
472255 - Sale Of Equipment	181,765	0	0	0	0
472260 - Sale Of Equipment - M	8,079	0	0	0	0
474100 - Miscellaneous Receipts	2,577	631,851	250,040	250,040	(381,811)
474130 - Misc Recpts-Cash Ove	152,657	0	0	0	0
<i>04826 - Revenue - Water Receiving</i>	<i>290,002,617</i>	<i>363,656,454</i>	<i>375,223,440</i>	<i>375,223,440</i>	<i>11,566,986</i>
<i>04827 - Revenue - Water Operation -Maintenance</i>					
461100 - Earnings On Investmer	85,509	283,150	282,600	282,600	(550)
461101 - Unrealized Gain	2,600	0	0	0	0
472150 - Other Miscellaneous	9,489	0	0	0	0

**CITY OF DETROIT**  
**Budget Development for FY 2011-2012**  
**Appropriation Summary - Revenues**

	2009-10 Actuals	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec	Variance
<b>A41000 - Water Department</b>					
<i>04827 - Revenue - Water Operation -Maintenance</i>					
474130 - Misc Recpts-Cash Ove	5,856	0	0	0	0
<i>04827 - Revenue - Water Operation -I</i>	<i>103,454</i>	<i>283,150</i>	<i>282,600</i>	<i>282,600</i>	<i>(550)</i>
<i>00163 - Debt Service and Maintenance</i>					
461100 - Earnings On Investmer	34,675	4,025,700	5,080,700	5,080,700	1,055,000
461175 - Change in Fair Value o	22,085,744	0	0	0	0
<i>00163 - Debt Service and Maintenanc</i>	<i>22,120,419</i>	<i>4,025,700</i>	<i>5,080,700</i>	<i>5,080,700</i>	<i>1,055,000</i>
<i>00164 - Water System Improvements</i>					
461100 - Earnings On Investmer	399,026	802,900	246,500	246,500	(556,400)
461101 - Unrealized Gain	114,730	0	0	0	0
<i>00164 - Water System Improvements</i>	<i>513,756</i>	<i>802,900</i>	<i>246,500</i>	<i>246,500</i>	<i>(556,400)</i>
<i>00583 - Water Extraordinary Repair and Replac</i>					
461100 - Earnings On Investmer	410,554	979,700	982,200	982,200	2,500
461101 - Unrealized Gain	84,540	0	0	0	0
<i>00583 - Water Extraordinary Repair a</i>	<i>495,094</i>	<i>979,700</i>	<i>982,200</i>	<i>982,200</i>	<i>2,500</i>
<i>11487 - Water Bond Fund Series 2005</i>					
461100 - Earnings On Investmer	297,428	0	0	0	0
461101 - Unrealized Gain	68,356	0	0	0	0
<i>11487 - Water Bond Fund Series 200:</i>	<i>365,784</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>11922 - Water Second Lien Bond Reserve Fund</i>					
461101 - Unrealized Gain	25,000	0	0	0	0
<i>11922 - Water Second Lien Bond Res</i>	<i>25,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>12140 - Water Bond Fund Series 2007</i>					
461100 - Earnings On Investmer	2,660,868	5,338,100	4,139,500	4,139,500	(1,198,600)
461101 - Unrealized Gain	21,742	0	0	0	0
522100 - Sale Of Bonds	0	0	300,000,000	300,000,000	300,000,000
<i>12140 - Water Bond Fund Series 200:</i>	<i>2,682,610</i>	<i>5,338,100</i>	<i>304,139,500</i>	<i>304,139,500</i>	<i>298,801,400</i>
<b>A41000 - Water Department</b>	<b>318,604,273</b>	<b>375,488,647</b>	<b>685,954,940</b>	<b>685,954,940</b>	<b>310,466,293</b>
<b>Grand Total</b>	<b>318,604,273</b>	<b>375,488,647</b>	<b>685,954,940</b>	<b>685,954,940</b>	<b>310,466,293</b>

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>00085 - Administration</b>						
<b>411010 - Office of the Director</b>						
Director - DWSD	1		1		1	
Deputy Director - DWSD	1		1		1	
Proc & Qual Control Mgr-DWSD	1		0		0	
Admin Asst GD II - DWSD	2		1		0	
Executive Secretary III	1		1		1	
Executive Secretary II	2		2		2	
Admin Asst GD III - DWSD	0		1		1	
<b>Total Office of the Director</b>	<b>8</b>		<b>7</b>		<b>6</b>	
<b>411080 - Security</b>						
Chief DWSD Security Administr	1		1		1	
Asst Chief-DWSD Security-Admin	1		1		1	
Sprv Srve Guard - GD II	4		4		4	
Sprv Srve Guard - GD I	5		5		5	
Security Specialist	12		12		12	
Sr Governmental Analyst	1		1		1	
Senior Clerk	1		1		1	
Senior Stenographer	1		1		1	
Office Assistant II	1		1		1	
Clerk	1		1		1	
Senior Service Guard - Water	12		12		12	
Service Guard - Public Utility	90		90		90	
<b>Total Security</b>	<b>130</b>		<b>130</b>		<b>130</b>	
<b>411200 - Contracts and Grants</b>						
General Manager - DWSD	1		1		1	
Manager I - DWSD	2		0		0	
Principal Governmental Analyst	4		4		4	
Sr Governmental Analyst	15		15		14	
Principal Clerk	1		1		1	
Office Assistant III	5		5		5	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY	DEPT REQUEST	MAYORS FY
Organization	2010 2011 FTE	FY 2011 2012 FTE	2011 2012 FTE
Classification			
<b>00085 - Administration</b>			
<b>411200 - Contracts and Grants</b>			
Manager II - DWSD	0	2	2
<b>Total Contracts and Grants</b>	<b>28</b>	<b>28</b>	<b>27</b>
<b>Total Administration</b>	<b>166</b>	<b>165</b>	<b>163</b>
<b>00086 - Financial Services Group</b>			
<b>412010 - Office of Assistant Director of Fina</b>			
Asst Director-DWSD Admin Sup	1	1	1
Office Management Assistant	1	1	1
<b>Total Office of Assistant Director of Financial</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>412020 - Financial Administrative Services</b>			
Manager I - DWSD	3	2	2
Senior Auditor	1	1	1
Principal Governmental Analyst	1	1	1
Sr Governmental Analyst	3	2	2
Manager II - DWSD	0	1	1
Bus Sys Support Specialist I	0	1	1
<b>Total Financial Administrative Services</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>412080 - General Accounting Administrative</b>			
Manager II - DWSD	1	1	1
Manager I - DWSD	3	3	3
Administrative Specialist I	1	1	1
Principal Accountant	4	4	4
Senior Accountant	14	16	16
Senior Bookkeeper	1	1	1
Head Clerk	1	2	2
Principal Clerk	7	6	6
Senior Voucher Audit Clerk	6	6	6
Senior Clerk	4	4	4
Senior Teller	12	13	13
Office Assistant II	1	1	1
<b>Total General Accounting Administrative Ser</b>	<b>55</b>	<b>58</b>	<b>58</b>

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>00086 - Financial Services Group</b>						
<b>412220 - Purchasing</b>						
Manager II - DWSD	1		1		1	
Admin Asst GD III	1		1		1	
Principal Purchases Agent	1		1		1	
Purchases Agent III	9		9		9	
Purchasing Assistant	2		3		3	
Head Clerk	1		1		1	
Principal Clerk	1		1		1	
Senior Clerk	3		2		2	
<b>Total Purchasing</b>	<b>19</b>		<b>19</b>		<b>19</b>	
<b>412230 - Material Management</b>						
Manager I - DWSD	1		1		1	
Business System Support Splst	1		0		0	
Administrative Specialist I	1		0		0	
Stores Operations Supervisor	3		3		3	
Head Storekeeper	4		4		4	
Senior Storekeeper	11		11		11	
Storekeeper	26		26		26	
Principal Governmental Analyst	1		1		1	
Sr Governmental Analyst	6		6		6	
Principal Clerk	2		2		2	
Senior Clerk	3		3		3	
Head Clerk	1		1		1	
Delivery - Driver	3		3		3	
Head Governmental Analyst	0		1		1	
Manager II - DWSD	0		1		1	
<b>Total Material Management</b>	<b>63</b>		<b>63</b>		<b>63</b>	
<b>Total Financial Services Group</b>	<b>147</b>		<b>150</b>		<b>150</b>	
<b>00087 - Asset Maintenance Group</b>						
<b>414010 - Office of Assistant Director Asset I</b>						
Asst Dir of DWSD - Asset Maint	1		1		1	



**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414010 - Office of Assistant Director Asset I</b>						
Asst Director-DWSD Admin Sup	1		1		1	
Manager II - DWSD	1		1		1	
Manager I - DWSD	2		2		2	
Head Eng - Water Sys-Operation	1		1		1	
Office Management Assistant	1		1		1	
Sr Asst Civil Eng - Design	0		3		3	
Eng Support Specialist II	0		2		2	
Sr Construction Inspector	0		1		1	
Head Eng - Water Sys - Design	0		1		1	
Sr Asst Civil Eng - Wastewater	0		1		1	
Sr Assoc Elect Eng - Design	0		1		1	
Prin Construct Inspector-DWSD	0		1		1	
Associate Civil Eng - Design	0		1		1	
<b>Total Office of Assistant Director Asset Main</b>	<b>7</b>		<b>18</b>		<b>18</b>	
<b>414130 - Mechanical Operations Administra</b>						
Sr Sprv of Mechanical Maint	1		1		1	
Manager II - DWSD	1		1		1	
Super of Plant Bldg & Mech Mai	1		1		1	
Sr Assoc Mech Eng - Operation	1		1		1	
Sr Assoc Elect Eng - Waste	1		1		1	
Assoc Elect Eng - Design	1		1		1	
Head Clerk	1		1		1	
Senior Clerk	3		3		3	
Office Assistant III	2		2		2	
Office Assistant II	3		3		3	
Clerk	1		1		1	
Plant Maintenance Sr Foreman	3		3		3	
Plant Maintenance Foreman	7		7		7	
Plant Maintenance Sub-Foreman	7		7		7	
Plant Maintenance Mechanic	9		9		9	
Elect Worker Foreman	1		1		1	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414130 - Mechanical Operations Administra</b>						
Elect Worker Sub-Foreman	3		3		3	
Elect Worker - General	17		17		17	
Elect Repair Worker - General	1		1		1	
Sr Auto Repair Foreman	1		1		1	
Auto Repair Foreman	10		10		10	
General Auto Mechanic	53		53		53	
Auto Repair Helper	2		2		2	
Park Maintenance Sprv -GD II	1		1		1	
Park Maintenance Foreman	2		2		2	
Park Maintenance Sub-Foreman	2		2		2	
Park Maintenance Worker	9		9		9	
Park Maintenance Helper	7		7		7	
Preventive Maintenance Coord	1		1		1	
Machinist Sub-Foreman	1		1		1	
General Machinist	4		4		4	
General Blacksmith	2		2		2	
Carpenter Foreman	1		1		1	
Finish Carpenter	4		4		4	
Painter Foreman	1		1		1	
Finish Painter	9		9		9	
Plumber	1		1		1	
Maintenance Millwright	9		9		9	
General Welder	3		3		3	
Sheet Metal Worker	2		2		2	
Water Systems Equip Mechanic	2		2		2	
Repair Mechanic	2		2		2	
Mechanical Helper	9		9		8	
Supervising Bldg Attendant II	1		1		1	
Supervising Bldg Attendant I	2		2		2	
Building Attendant A	19		19		19	
Bldg Trades Worker-Gen	3		3		3	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414130 - Mechanical Operations Administra</b>						
Building Trades Helper	3		3		3	
Vehicle Operator I	2		2		2	
Delivery - Driver	1		1		1	
Carpenter Apprentice	1		1		1	
Plumber Apprentice	1		1		1	
Sheet Metal Apprentice	1		1		1	
Maint Millwright Apprentice	1		1		1	
<b>Total Mechanical Operations Administration</b>	<b>237</b>		<b>237</b>		<b>236</b>	
<b>414200 - Water Board Building</b>						
Bldg and Grds Maint Sprv	1		1		1	
Bldg Oper Sprv - Grade II	1		1		1	
Supervising Bldg Attendant II	1		1		1	
Supervising Bldg Attendant I	1		1		1	
Senior Building Attendant	1		1		1	
Building Operator I	2		2		2	
Building Attendant A	21		21		22	
Elect Worker - General	2		2		2	
Elevator Mechanic	3		3		3	
Garage Attendant	2		2		2	
Senior Clerk	1		1		1	
<b>Total Water Board Building</b>	<b>36</b>		<b>36</b>		<b>37</b>	
<b>414240 - Maintenance and Repair 2004</b>						
Admin Asst GD II - DWSD	1		1		1	
Super-Water Sys Maint & Const	1		1		1	
Asst Super Water Sys Maint	1		1		1	
Sprv of Water Sys Maint	2		2		2	
Asst Sprv Water Sys Maint	6		6		6	
Sr Water Sys Maint Dispatcher	1		1		1	
Water Sys Maint Dispatcher	15		15		16	
Drafting Technician II	1		1		1	
Water Systems Foreman	18		18		18	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414240 - Maintenance and Repair 2004</b>						
Sr Water Systems Mechanic	40		40		40	
Water Systems Mechanic	95		95		95	
Water Systems Repair Worker	89		89		89	
Telecomm Center Sprv - DWSD	1		1		1	
Construction Equip Foreman	1		1		1	
Construction Equip Operator	15		15		15	
Office Management Assistant	1		1		1	
Service Information Clerk	9		9		9	
Principal Clerk	1		1		1	
Bricklayer	5		5		5	
Master Plumber	1		1		1	
Plumber	4		4		4	
Senior Clerk	6		6		6	
Clerk	2		2		2	
Vehicle Operator III	10		10		10	
Vehicle Operator I	16		16		15	
Sewer Inspector - Video Equip	2		2		2	
Prin Construct Inspector-DWSD	2		2		2	
Sr Construction Inspector	2		2		1	
Construction Inspector	1		1		1	
Sewer Safety Inspector	2		2		2	
Asst Sewer Safety Inspector	2		2		2	
Sewer Safety Helper	2		2		2	
Head Governmental Analyst	0		1		1	
<b>Total Maintenance and Repair 2004</b>	<b>355</b>		<b>356</b>		<b>355</b>	
<b>414360 - Central Service Facility</b>						
Bldg Opers Sprv Central Servic	1		1		1	
<b>Total Central Service Facility</b>	<b>1</b>		<b>1</b>		<b>1</b>	
<b>Total Asset Maintenance Group</b>	<b>636</b>		<b>648</b>		<b>647</b>	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

<b>Appropriation</b>	<b>REDBOOK FY</b>		<b>DEPT REQUEST</b>		<b>MAYORS FY</b>	
<b>Organization</b>	<b>2010</b>	<b>2011 FTE</b>	<b>FY 2011</b>	<b>2012 FTE</b>	<b>2011</b>	<b>2012 FTE</b>
<b>Classification</b>						
<b>00088 - Water Operations Group</b>						
<b>415010 - Office of Assistant Director of Water Operations</b>						
Asst Dir -DWSD Water Supply Op	1		1		1	
Water Production&Operation Mgr	1		1		1	
Admin Asst GD II - DWSD	2		2		2	
Office Management Assistant	1		1		1	
Clerk	1		1		1	
	<u>6</u>		<u>6</u>		<u>6</u>	
<b>Total Office of Assistant Director of Water Operations</b>						
<b>415020 - Water Works Park</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	
Head Water Plant Operator	5		5		5	
Sr Water Plant Operator	4		4		4	
Water Plant Operator	9		9		9	
Water Sys Cntrl Instr Tech	1		1		1	
Elect Worker - General	1		1		1	
Elect Repair Worker - General	1		1		1	
Senior Water Systems Chemist	5		5		5	
Water Systems Chemist	5		5		5	
Sr Water Sys Lab Technician	1		1		1	
Plant Maintenance Mechanic	3		3		3	
Repair Mechanic	2		2		2	
Mechanical Helper	4		4		4	
Electrical Helper	1		1		1	
Principal Clerk	1		1		1	
	<u>47</u>		<u>47</u>		<u>47</u>	
<b>Total Water Works Park</b>						
<b>415030 - Springwells Plant</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011	FY 2011	FY 2012	2011	2012
Classification			FTE		FTE	
<b>00088 - Water Operations Group</b>						
<b>415030 - Springwells Plant</b>						
Plant Maintenance Mechanic	5		5		5	
Repair Mechanic	2		5		5	
Water Sys Cntrl Instr Tech	1		1		1	
Senior Water Systems Chemist	5		5		5	
Water Systems Chemist	4		5		5	
Head Water Plant Operator	5		5		5	
Sr Water Plant Operator	4		5		5	
Water Plant Operator	9		9		9	
Water Plant Attendant	5		5		5	
Elect Worker - General	1		1		2	
Elect Repair Worker - General	1		2		1	
Electrical Helper	1		1		1	
Senior Clerk	1		1		1	
<b>Total Springwells Plant</b>	<b>48</b>		<b>54</b>		<b>54</b>	
<b>415040 - Northeast Plant</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	
Plant Maintenance Mechanic	4		4		4	
Senior Water Systems Chemist	6		6		6	
Water Sys Cntrl Instr Tech	1		1		1	
Head Water Plant Operator	4		4		4	
Water Plant Operator	6		6		6	
Elect Worker - General	1		1		1	
Elect Repair Worker - General	1		1		1	
Electrical Helper	1		1		1	
Repair Mechanic	1		1		1	
Principal Clerk	1		1		1	
<b>Total Northeast Plant</b>	<b>30</b>		<b>30</b>		<b>30</b>	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>00088 - Water Operations Group</b>						
<b>415050 - Southwest Plant</b>						
Water Treatment Plant Manager	1		1		1	
Head Water Plant Operator	1		1		1	
Sr Water Plant Operator	5		5		5	
Water Plant Operator	5		5		5	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	
Plant Maintenance Mechanic	2		2		2	
Senior Water Systems Chemist	5		5		5	
Sprv Filtration	1		1		1	
Water Sys Cntrl Instr Tech	1		1		1	
Elect Worker - General	1		1		1	
Elect Repair Worker - General	1		1		1	
Repair Mechanic	2		2		2	
Plumber	1		1		1	
Mechanical Helper	2		2		2	
Senior Clerk	1		1		1	
<b>Total Southwest Plant</b>	<b>31</b>		<b>31</b>		<b>31</b>	
<b>415060 - Lake Huron Plant</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Elect Worker - General	2		2		2	
Plant Maintenance Sub-Foreman	1		1		1	
Senior Water Systems Chemist	5		5		5	
Head Water Plant Operator	4		4		4	
Repair Mechanic	2		2		2	
Water Sys Cntrl Instr Tech	1		1		1	
Water Plant Operator	5		5		5	
Mechanical Helper	1		1		1	
General Auto Mechanic	1		1		1	
Plant Maintenance Mechanic	3		3		3	

**CITY OF DETROIT  
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY	DEPT REQUEST	MAYORS FY
Organization	2010 2011 FTE	FY 2011 2012 FTE	2011 2012 FTE
Classification			
<b>00088 - Water Operations Group</b>			
<b>415060 - Lake Huron Plant</b>			
Principal Clerk	1	1	1
<b>Total Lake Huron Plant</b>	<b>29</b>	<b>29</b>	<b>29</b>
<b>415390 - Water Quality</b>			
Water/Wastewater Sys Maint Eng	1	1	1
Water Production&Operation Mgr	1	1	1
Principal Analytical Chemist	1	1	1
Senior Analytical Chemist	2	2	2
Analytical Chemist	1	1	1
Microbiologist	1	1	1
Sr Water Distrib Sys Investiga	1	1	1
Water Systems Investigator	5	5	5
<b>Total Water Quality</b>	<b>13</b>	<b>13</b>	<b>13</b>
<b>Total Water Operations Group</b>	<b>204</b>	<b>210</b>	<b>210</b>
<b>05817 - Engineering Services - Water</b>			
<b>413010 - Office of Assistant Director of Engi</b>			
Asst Dir-Water Resources-Eng	1	1	1
<b>Total Office of Assistant Director of Engineer</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>413020 - Engineering Administrative Suppo</b>			
Superintendant of Eng - DWSD	1	0	0
Manager II - DWSD	1	1	1
Manager I - DWSD	1	1	1
Sr Governmental Analyst	1	1	1
Head Eng - Water Sys - Design	4	3	3
Head Civil Eng - Field	1	1	1
Engineer of Water Systems	4	4	4
Field Engineer	1	1	1
Senior Associate Architect	1	1	1
Sr Assoc Elect Eng - Design	2	2	2
Sr Assoc Civil Eng - Design	8	8	8
Sr Assoc Mech Eng - Design	4	3	3



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Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>05817 - Engineering Services - Water</b>						
<b>    413020 - Engineering Administrative Support</b>						
Assoc Architectural Engineer	2		2		2	
Associate Civil Eng - Design	5		5		5	
Assoc Elect Eng - Design	5		5		5	
Assoc Mech Eng - Design	3		3		3	
Sr Asst Civil Eng - Design	12		9		9	
Sr Asst Elect Eng - Design	3		2		2	
Sr Asst Mech Eng - Design	1		0		0	
Assistant Civil Engineer	1		1		1	
Assistant Electrical Engineer	1		1		1	
Administrative Specialist I	1		1		1	
Drafting Technician IV	1		1		1	
Drafting Technician III	12		11		10	
Principal Governmental Analyst	1		1		1	
Principal Clerk	1		1		1	
Head Constr Inspector - DWSD	1		1		1	
Prin Construct Inspector-DWSD	7		6		6	
Sr Construction Inspector	25		24		24	
Construction Inspector	1		1		1	
Supervising Survey Technician	1		1		1	
Associate Surveyor	1		1		1	
Survey Technician	1		1		1	
Eng Support Specialist II	3		3		3	
Eng Support Specialist I	1		1		1	
Office Assistant III	3		3		3	
Senior Clerk	5		5		5	
Office Assistant II	4		4		2	
Clerk	4		4		2	
<b>    Total Engineering Administrative Support</b>	<b>135</b>		<b>124</b>		<b>119</b>	
<b>Total Engineering Services - Water</b>	<b>136</b>		<b>125</b>		<b>120</b>	

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Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>12448 - Info Tech &amp; Systems Integration &amp; Or</b>						
<b>411011 - Asst Dir - Info Tech &amp; Sys Integrati</b>						
Asst Director of Water And	1		1		1	
Process Control Network Admin	2		2		2	
Eng Support Specialist II	3		3		3	
	<u>6</u>		<u>6</u>		<u>6</u>	
<b>Total Asst Dir - Info Tech &amp; Sys Integration &amp;</b>						
<b>411014 - Geographic Information Systems (I</b>						
Sr Geograph Info Sys Supp Tech	3		3		3	
	<u>3</u>		<u>3</u>		<u>3</u>	
<b>Total Geographic Information Systems (GIS)</b>						
<b>411016 - Process Networks and SCADA Sys</b>						
Process Control System Manager	1		1		1	
Manager II - DWSD	2		2		2	
Process Control System Admin	3		6		6	
Process Control Network Admin	3		3		3	
Manager I - DWSD	1		1		1	
Water Sys Cntrl Instr Tech	9		9		9	
Principal Clerk	1		1		1	
	<u>20</u>		<u>23</u>		<u>23</u>	
<b>Total Process Networks and SCADA Systems</b>						
<b>411115 - Information Systems Administrativ</b>						
General Manager - DWSD	1		1		1	
Manager I - DWSD	1		1		1	
Dept Info Tech Network Splst	4		4		4	
Prin Data Proc Prog Analyst	4		4		4	
Sr Data Proc Prog Analyst	11		11		11	
Inter Data Proc Prog Analyst	7		7		7	
Sr Data Proc Telecomm Tech	4		4		4	
Office Management Assistant	1		1		1	
Sr Governmental Analyst	1		1		1	
Microcomputer Support Splst	7		7		7	
Eng Support Specialist II	2		2		2	
Principal Clerk	1		1		1	
Office Assistant III	1		1		1	

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**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>12448 - Info Tech &amp; Systems Integration &amp; Or</b>						
<b>411115 - Information Systems Administrativ</b>						
Info Tech Client Supp Asst	1		1		1	
System Programming Coordinator	1		1		1	
Senior Clerk	2		2		2	
<b>Total Information Systems Administrative Se</b>	<b>49</b>		<b>49</b>		<b>49</b>	
<b>411285 - Systems Operations Control</b>						
General Manager - DWSD	1		1		1	
Chief Water Systems Sprv	1		1		1	
Engineer of Water Systems	1		1		1	
Sr Assoc Civil Eng - Design	2		2		2	
Water Sys Cntrl Instr Tech	2		2		2	
Cont Instr Tech Sub-Foreman-Wa	1		1		1	
Proc Control Center Supervisor	5		5		5	
Proc Control Center Operator	5		5		5	
Sr Water Plant Operator	14		14		14	
Microcomputer Support Splst	1		1		1	
Sr Data Proc Prog Analyst	1		1		1	
<b>Total Systems Operations Control</b>	<b>34</b>		<b>34</b>		<b>34</b>	
<b>411295 - Water Technical Services</b>						
Engineer of Wastewater Systems	2		2		2	
Sr Assoc Civil Eng - Design	1		1		1	
Sr Assoc Elect Eng - Design	1		1		1	
Sr Assoc Mech Eng - Operation	1		1		1	
Assoc Elect Eng - Design	1		1		1	
Assoc Mech Eng - Design	1		1		1	
<b>Total Water Technical Services</b>	<b>7</b>		<b>7</b>		<b>7</b>	
<b>411305 - Operational Services</b>						
Sr Pitometer Technician	3		3		3	
Pitometer Technician	4		4		4	
Principal Clerk	1		1		1	

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Appropriation	REDBOOK FY	DEPT REQUEST	MAYORS FY
Organization	2010 2011 FTE	FY 2011 2012 FTE	2011 2012 FTE
Classification			
<b>12448 - Info Tech &amp; Systems Integration &amp; Or</b>			
<b>411305 - Operational Services</b>			
Office Management Assistant	1	1	1
<b>Total Operational Services</b>	<b>9</b>	<b>9</b>	<b>9</b>
<b>Total Info Tech &amp; Systems Integration &amp; Orga</b>	<b>128</b>	<b>131</b>	<b>131</b>
<b>12758 - Public Affairs Group - Water</b>			
<b>411021 - Office of the Assistant Director -Pu</b>			
Asst Director of Water And	1	1	1
Public Affairs Manager	1	1	1
Supervising Publicist I	1	1	1
Admin Asst GD II - DWSD	1	1	1
Web Editor	2	2	2
Publicist II	1	1	1
Sr Promotional Activities Asst	1	2	2
Promotional Activities Assist	1	1	1
Principal Graphic Designer	1	1	1
Graphic Designer	2	2	2
Audio Visual Srves Sprv	1	1	1
Audio Visual Technician IV	1	1	1
Audio Visual Technician III	2	2	2
Audio Visual Technician II	2	2	2
Photographer - General	1	1	1
Principal Clerk	2	2	2
Senior Clerk	1	1	1
Office Assistant II	1	1	1
Office Assistant III	0	1	1
<b>Total Office of the Assistant Director -Public</b>	<b>23</b>	<b>25</b>	<b>25</b>
<b>411221 - Commercial Operations</b>			
Manager II - DWSD	1	1	1
Manager I - DWSD	1	1	1
Business System Support Splst	1	1	1
Bus Sys Support Specialist I	1	1	0

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Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
<b>12758 - Public Affairs Group - Water</b>						
<b>    411221 - Commercial Operations</b>						
Commercial Oper Specialist III	5		5		5	
Commercial Oper Specialist II	15		15		15	
Commercial Oper Specialist I	12		12		12	
Supervisor of Mail Operations	1		1		1	
Office Management Assistant	1		1		1	
Office Automation Support Asst	2		2		2	
Info Tech Client Supp Asst	1		1		1	
Customer Service Rep I	13		13		13	
Customer Service Rep II	50		50		50	
Customer Service Rep III	23		23		23	
Permit Investigator - DWSD	4		4		4	
Field Services Rep	22		32		32	
Customer Services Supervisor	3		3		3	
Sr. Water Meter Reader	19		0		0	
Field Operations Sprvr	7		7		7	
Admin Sprv - Field Operations	1		1		1	
Mail Processor	4		4		4	
Office Assistant III	6		6		6	
Bus Sys Support Specialist II	0		0		1	
<b>    Total Commercial Operations</b>	<b>193</b>		<b>184</b>		<b>184</b>	
<b>    411251 - Meter Operations</b>						
Manager II - DWSD	1		1		1	
Manager I - DWSD	1		1		1	
Administrative Specialist I	1		1		1	
Office Management Assistant	1		1		1	
Principal Governmental Analyst	1		1		1	
Sr Governmental Analyst	1		1		1	
Control Instru Tech -Foreman	1		1		1	
Cont Instr Tech Sub-Foreman-Wa	2		2		2	
Water Sys Cntrl Instr Tech	7		9		9	
Plumber	1		1		1	

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<b>Appropriation</b>	<b>REDBOOK FY</b>		<b>DEPT REQUEST</b>		<b>MAYORS FY</b>	
<b>Organization</b>	<b>2010</b>	<b>2011 FTE</b>	<b>FY 2011</b>	<b>2012 FTE</b>	<b>2011</b>	<b>2012 FTE</b>
<b>Classification</b>						
<b>12758 - Public Affairs Group - Water</b>						
<b>411251 - Meter Operations</b>						
Sr Water Meter Foreman	1		1		1	
Water Meter Foreman	4		4		4	
Principal Clerk	2		3		3	
Sr Water Meter Mechanic	3		3		3	
Water Meter Mechanic	7		7		7	
Water Meter Worker	18		18		18	
Mechanical Helper	21		21		20	
Senior Clerk	4		4		4	
Office Assistant III	3		3		3	
Office Assistant II	3		3		3	
Storekeeper	1		1		1	
Plant Maintenance Mechanic	0		1		1	
Assoc Mech Eng - Design	0		1		0	
Sr Assoc Elect Eng - Design	0		1		0	
<b>Total Meter Operations</b>	<b>84</b>		<b>90</b>		<b>87</b>	
<b>Total Public Affairs Group - Water</b>	<b>300</b>		<b>299</b>		<b>296</b>	
<b>Agency Total</b>	<b>1,717</b>		<b>1,728</b>		<b>1,717</b>	