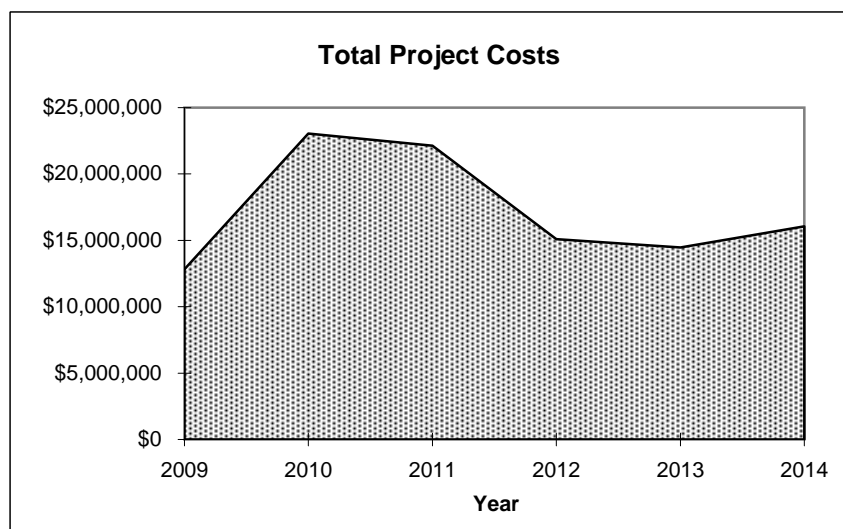


## 2009 Capital Budget Capital Improvement Program

Agency Name: **Water Utility**

Agency Number: 64

Project Name	Capital Budget		Future Year Estimates			
	2009	2010	2011	2012	2013	2014
1 Lead Service Replacements	\$ 200,000	\$ 200,000	\$ 0	\$ 0	\$ 0	\$ 0
2 Meter Program	332,000	339,000	346,000	353,000	360,000	367,000
3 Water Mains - Replacements	6,409,900	5,293,000	7,057,000	5,835,000	6,127,000	6,433,000
4 Water Mains - New	369,000	750,000	787,500	826,875	868,219	911,630
5 SCADA System - Upgrade	300,000	300,000	300,000	0	0	0
6 Femrite Drive Unit Well	970,000	2,990,000	0	0	1,050,000	0
7 Unit Well #8 Iron and Mang. Filter	350,000	3,400,000	0	0	0	0
8 Booster Station #118 - Todd Dr	2,670,000	1,774,000	0	0	0	0
9 Raymond Road Reservoir	462,000	1,681,000	0	0	0	0
10 East Isthmus Unit Well	210,000	0	878,000	3,395,000	1,000,000	0
11 Near West Side Unit Well	170,000	75,000	657,000	190,000	2,878,500	0
12 Unit Well #7 - Iron and Mang. Filter	0	400,000	3,950,000	0	0	0
13 Unit Well #10 - Fe and Mn Filter	0	0	1,000,000	3,950,000	0	0
14 Booster Station #129	0	0	0	0	0	193,000
15 Pump Station #220 - Raymond Road	0	0	0	0	1,245,000	1,000,000
16 Zone 10 Far West Elevated Reservoir	0	0	0	0	0	200,960
17 Lakeview Reservoir	0	0	0	0	258,880	3,393,770
18 Booster Pump Station #114	0	0	0	0	125,000	1,685,000
19 Hoepker Road Unit Well	0	0	0	0	117,000	904,000
20 Security Upgrades	175,000	184,000	193,000	203,000	213,000	224,000
21 System Wide Miscellaneous Projects	140,000	148,900	157,900	168,000	178,300	190,700
22 Paterson St Bldg Remodel & Upgrade	0	0	0	0	50,000	550,000
23 Automated Meter Reading System	0	5,370,000	5,370,000	0	0	0
24 Rebuild Booster Pump Station #106	0	140,000	963,000	0	0	0
25 Misc Pump Station/PRV/Facility Proj.	75,000	0	476,000	179,200	0	0
<b>Total</b>	<b>\$ 12,832,900</b>	<b>\$ 23,044,900</b>	<b>\$ 22,135,400</b>	<b>\$ 15,100,075</b>	<b>\$ 14,470,899</b>	<b>\$ 16,053,060</b>





## Capital Budget

### Water Utility

#### Lead Service Replacements

Project No. 1 Acct. No. 810456

GO \$ 0 Replace lead water service laterals required to meet federally mandated goals. The federal  
Other 200,000 mandate requires that this project be concluded by February 2011 but because of the  
\$ 200,000 limitations of the construction season, the work needs to be completed by November 2010.  
Other funding is internally generated through depreciation expense.

#### Meter Program

Project No. 2 Acct. No. 810454

GO \$ 0 Purchase and set new meters for residential customers. Replace and test water meters  
Other 332,000 ranging in size from 5/8" to 10" in accordance with Wisconsin Public Service Commission  
\$ 332,000 rules. Other funding is internally generated through depreciation expense.

#### Water Mains - Replacements

Project No. 3 Acct. No. 810455

GO \$ 0 The Utility attempts to replace water mains in conjunction with street reconstruction and  
Other 6,409,900 resurfacing projects. The utility completed an Infrastructure Management Plan in December  
\$ 6,409,900 2005, and higher spending in this area reflects the need for additional replacements as  
outlined in the Infrastructure Management Plan. Other funding is internally generated through  
depreciation expense.

#### Water Mains - New

Project No. 4 Acct. No. 810455

GO \$ 0 Install new water mains to help strengthen the existing distribution system, improve  
Other 369,000 pressures, improve fire protection, allow transfer of water from zone to zone and serve the  
\$ 369,000 growing Madison area. Mains installed within this project will implement recommended  
improvements from the Utility's Master Plan, adopted in 2006. The 2009 project will be the  
first phase of two projects to correct the long standing low pressure area in the Milwaukee  
Street and Thompson Drive area of the system.

#### SCADA System - Upgrade

Project No. 5 Acct. No. 810459

GO \$ 0 Replacement and upgrade for the existing SCADA (Supervisory Control And Data  
Other 300,000 Acquisition) System. This system allows the utility to remotely control and monitor wells,  
\$ 300,000 booster stations, and reservoirs from a central location. This work is being done jointly by  
Utility staff and private contractors.

#### Femrite Drive Unit Well

Project No. 6 Acct. No. 810517

GO \$ 0 The proposed well on Femrite Drive will provide a new source of water supply to improve  
Other 970,000 redundancy and reliability to Pressure Zone 4. A site has been purchased and a test well has  
\$ 970,000 been drilled and tested. Water quality issues will be evaluated through the Public  
Participation Process.

#### Unit Well #8 Iron and Mang. Filter

Project No. 7 Acct. No. 810459

GO \$ 0 Construct an iron and manganese removal filter at Well 8 for the purpose of improving water  
Other 350,000 quality. This is the second filter to be constructed to address water quality issues. In 2009, a  
\$ 350,000 Public Participation Process coupled with a design process will be funded with construction  
following in 2010.

**Booster Station #118 - Todd Dr** Project No. **8** Acct. No. 810516

GO \$ 0 Construct a booster pump station and pipeline to allow the transfer of water from Zone 6 to  
Other 2,670,000 Zone 7 to improve hydraulics and reduce the need for Well 10 and defer the need for  
\$ 2,670,000 additional supply in Zone 7. The budget anticipates the installation of a water main in 2009  
with the railroad right of way that was purchased by the Cities of Madison and Fitchburg. This  
work will be coordinated with the installation of a bike path. In 2010, a pump station will be  
constructed in the vicinity of West Badger Road.

**Raymond Road Reservoir** Project No. **9** Acct. No. 810516

GO \$ 0 Construct a 750,000 gallon elevated reservoir to serve Pressure Zone 9 in the southwest  
Other 462,000 corner of the City. The Public Participation Process will proceed in 2009 coordinated with the  
\$ 462,000 design.

**East Isthmus Unit Well** Project No. **10** Acct. No. 810517

GO \$ 0 The east Isthmus Unit Well is a drinking water supply point located in the main pressure zone.  
Other 210,000 The proposed east Isthmus well will replace Well 3, which was abandoned due to water  
\$ 210,000 quality issues. Based on hydraulic modeling conducted in 2008, this replacement well was  
determined to be necessary to provide water during high consumption periods and fire  
demands.

**Near West Side Unit Well** Project No. **11** Acct. No. 810517

GO \$ 0 The proposed well and pump station on the near west side will provide a new source of water  
Other 170,000 supply to improve service levels and system redundancy and reliability to Pressure Zone 6, 7  
\$ 170,000 and 8. In 2009, a test well will be drilled and evaluated at an existing site owned by the Utility  
in the vicinity of Mineral Point Road and Whitney Way. A test well was tested at Reservoir  
Park in 2008. Both sites are alternative locations for the Near West Side Unit Well.

**Unit Well #7 - Iron and Mang. Filter** Project No. **12** Acct. No. 0

GO \$ 0 Construct an iron and manganese removal filter at Well 7 for the purpose of improving water  
Other 0 quality to area customers.  
\$ 0

**Unit Well #10 - Fe and Mn Filter** Project No. **13** Acct. No. 0

GO \$ 0 Construct an iron and manganese removal filter at Well 10 for the purpose of improving water  
Other 0 quality to area customers. This project may be deferred pending a review of the hydraulic  
\$ 0 improvements to the system created by the proposed Booster Station No. 118 - Todd Drive  
(Project No. 8).

**Booster Station #129** Project No. **14** Acct. No. 0

GO \$ 0 Construct a booster pump station to transfer water from the eastern portions of the main  
Other 0 pressure zone to Pressure Zones 1, 2 and 3. This pump station will replace an aging  
\$ 0 temporary pump station and provide additional capacity and reliability.

**Pump Station #220 - Raymond Road** Project No. **15** Acct. No. **0**

GO \$ 0 Construct a dual zone pump station that will transfer water from Zone 7 to Zones 9 and 10.  
Other 0 This will provide operational flexibility and reduce the need for expanded supply capacity.  
\$ 0

**Zone 10 Far West Elevated Reservoir** Project No. **16** Acct. No. **0**

GO \$ 0 Construct a one million gallon elevated storage reservoir on the far west side of the service  
Other 0 area to serve developing areas and provide fire protection.  
\$ 0

**Lakeview Reservoir** Project No. **17** Acct. No. **0**

GO \$ 0 Construct a two zone water storage reservoir to provide needed additional storage capacity  
Other 0 for peak demand and fire flow reserves in Zones 5 and 6. This facility will also replace an  
\$ 0 aging elevated water reservoir in Zone 5.

**Booster Pump Station #114** Project No. **18** Acct. No. **0**

GO \$ 0 Construct a dual pressure zone pump station to allow water to be transferred from the main  
Other 0 Pressure Zone to Zones 7 & 8. This project will provide operational flexibility and fully utilize  
\$ 0 existing Utility facilities.

**Hoepker Road Unit Well** Project No. **19** Acct. No. **0**

GO \$ 0 Construct a well, reservoir and pump station to provide additional drinking water supply to the  
Other 0 extreme north end of the main pressure zone.  
\$ 0

**Security Upgrades** Project No. **20** Acct. No. **810458**

GO \$ 0 Miscellaneous projects to improve security and monitoring of the Utility's remote facilities.  
Other 175,000 These projects would include but not necessarily be limited to: video camera surveillance,  
\$ 175,000 improved doors, improved hatches, fencing, alarms systems, and other on line monitoring  
devices.

**System Wide Miscellaneous Projects** Project No. **21** Acct. No. **810458**

GO \$ 0 Miscellaneous projects to repair and improve Utility facilities. These projects would include but  
Other 140,000 not necessarily be limited to: lighting projects, roofing, painting, and other upgrades to the  
\$ 140,000 Utility's 32 remote sites and to the administration and operations centers.

**Paterson St Bldg Remodel & Upgrade** Project No. **22** Acct. No. **0**

GO \$ 0 Major renovation of the Water Utility field operations center at 110 S Paterson St, including  
Other 0 the demolition and rebuilding of the vehicle maintenance facility. Other funding is internally  
\$ 0 generated through depreciation expense.

**Automated Meter Reading System** Project No. **23** Acct. No. **0**

GO \$ 0 Retrofit all existing water meters with a device that will allow the Utility to receive a radio  
Other 0 signal of the readings on the meter via driving past meters with a device to capture the radio  
\$ 0 signals.

**Rebuild Booster Pump Station #106** Project No. **24** Fund No. **0**

GO \$ 0  
Other 0  
\$ 0

Replace the 80 year old booster pump station at Glenway. This booster station moves water from Zone 6 to Zone 7 and provides a necessary source of water to the northeast corner of Zone 7.

**Misc Pump Station/PRV/Facility Proj.** Project No. **25** Acct. No. **810458**

GO \$ 0  
Other 75,000  
\$ 75,000

Various pump station, pressure reducing station, and well improvement and upgrade projects recommended by the Utility Master Plan.

All Funding is from Water Utility resources.

**2009  
Capital Budget  
Summary**

**Agency Name: Water Utility**

**Agency Number: 64**

Project Name	Agency Request	Executive	Adopted		
			G.O. Debt	Other Funding	Total
1 Lead Service Replacements	\$ 200,000	\$ 200,000	\$ 0	\$ 200,000	\$ 200,000
2 Meter Program	332,000	332,000	0	332,000	332,000
3 Water Mains - Replacements	6,409,900	6,409,900	0	6,409,900	6,409,900
4 Water Mains - New	369,000	369,000	0	369,000	369,000
5 SCADA System - Upgrade	300,000	300,000	0	300,000	300,000
6 Femrite Drive Unit Well	970,000	970,000	0	970,000	970,000
7 Unit Well #8 Iron and Mang. Filter	350,000	350,000	0	350,000	350,000
8 Booster Station #118 - Todd Dr	2,670,000	2,670,000	0	2,670,000	2,670,000
9 Raymond Road Reservoir	462,000	462,000	0	462,000	462,000
10 East Isthmus Unit Well	210,000	210,000	0	210,000	210,000
11 Near West Side Unit Well	170,000	170,000	0	170,000	170,000
12 Unit Well #7 - Iron and Mang. Filter	0	0	0	0	0
13 Unit Well #10 - Fe and Mn Filter	0	0	0	0	0
14 Booster Station #129	0	0	0	0	0
15 Pump Station #220 - Raymond Road	0	0	0	0	0
16 Zone 10 Far West Elevated Reservoir	0	0	0	0	0
17 Lakeview Reservoir	0	0	0	0	0
18 Booster Pump Station #114	0	0	0	0	0
19 Hoepker Road Unit Well	0	0	0	0	0
20 Security Upgrades	175,000	175,000	0	175,000	175,000
21 System Wide Miscellaneous Projects	140,000	140,000	0	140,000	140,000
22 Paterson St Bldg Remodel & Upgrade	0	0	0	0	0
23 Automated Meter Reading System	0	0	0	0	0
24 Rebuild Booster Pump Station #106	0	0	0	0	0
25 Misc Pump Station/PRV/Facility Proj.	75,000	75,000	0	75,000	75,000
<b>Total</b>	<b>\$ 12,832,900</b>	<b>\$ 12,832,900</b>	<b>\$ 0</b>	<b>\$ 12,832,900</b>	<b>\$ 12,832,900</b>