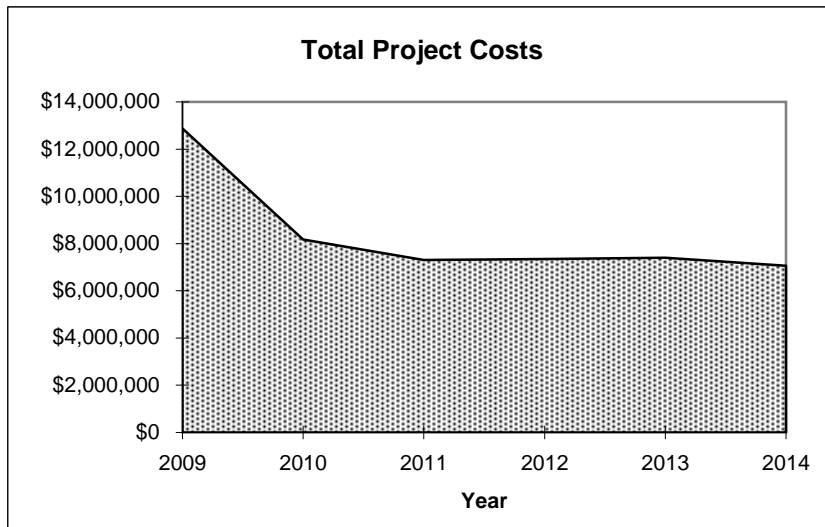


## 2009 Capital Budget Capital Improvement Program

Agency Name: **Sewer Utility**

Agency Number: **54**

Project Name	Future Year Estimates					
	2009	2010	2011	2012	2013	2014
1 Sewer with Reconstructed Streets	\$ 5,600,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000
2 In-Place Sewer Rehabilitations	300,000	300,000	300,000	300,000	300,000	0
3 Additions To Collection System	1,300,000	250,000	250,000	250,000	250,000	250,000
4 Lift Station Rehabilitations	425,000	100,000	100,000	100,000	100,000	0
5 Improvements In Sewer Study Areas	200,000	100,000	100,000	100,000	100,000	100,000
6 Hoard Area Sewer Replacements	650,000	0	0	0	0	0
7 E Washington Ave Sewer Replacement	300,000	100,000	0	0	0	0
8 Felland Area Sewer to Nelson Road	1,400,000	0	0	0	0	0
9 Lower Badger Mill Creek Sewer	1,968,750	656,250	0	0	0	0
10 Sewer Access Improvements	100,000	100,000	100,000	100,000	100,000	100,000
11 Replacement Vehicles & Equipment	450,400	575,000	600,000	625,000	650,000	700,000
12 New Vehicles & Equipment	24,500	25,725	27,011	28,362	29,780	31,269
13 Engineering Service Building	0	310,063	166,753	175,091	183,845	193,038
14 Basement Back Up Elimination Prog	150,000	157,500	165,375	173,644	182,326	191,442
<b>Total</b>	<b>\$ 12,868,650</b>	<b>\$ 8,174,538</b>	<b>\$ 7,309,139</b>	<b>\$ 7,352,097</b>	<b>\$ 7,395,951</b>	<b>\$ 7,065,749</b>





## Capital Budget

### Sewer Utility

#### **Sewer with Reconstructed Streets** Project No. 1 Acct. No. 810332

GO \$ 0 This project involves replacement of older, problematic sanitary sewers in conjunction with street reconstruction projects and street resurfacing. The work provides for the replacement of 6 inch diameter clay sewers which are difficult to maintain, and sewers nearing the end of their service life or determined to have a significant repair cost. Since 1997, the Utility has encouraged residents to replace the portion of their sewer lateral that lies within the public right-of-way by offering to pay for 75% of the cost. All 6 inch mains under 'reconstruction' streets will be replaced. Sewers beneath resurfaced streets are evaluated for replacement on a case-by-case basis. This work is coordinated with the street reconstruction and water main replacement priorities.

Other 5,600,000  
\$ 5,600,000

#### **In-Place Sewer Rehabilitations** Project No. 2 Acct. No. 810503

GO \$ 0 This project will rehabilitate failing sewers that meet certain criteria that does not necessitate the need for a complete replacement by means of open cutting. New technology allows the lining of existing sewer mains using cameras and remote controlled tools. Some are also rehabilitated (or lined) to address inflow and infiltration problems, where clear water flow enters the sewer system reducing pipe capacity and increasing treatment costs. The amount budgeted shall repair approximately 1.5 miles of sewer main at a number of locations, strategically selected based on need City-wide. This item may also include replacement of inaccessible sewers by a 'direct bore' method, which is a relatively new technology for replacement of gravity sewer mains. A small direct bore project is proposed at 4333 Bagley Parkway. Funding from Utility Reserves includes \$100,000 reauthorized from the 2008 Capital Budget.

Other 300,000  
\$ 300,000

#### **Additions To Collection System** Project No. 3 Acct. No. 810335

GO \$ 0 This project is for construction of assessable sewer facilities for new development, including easement acquisition where applicable. Projects for 2009 include: future phases of the Center for Industry & Commerce Plat and / or Interstate Commerce Park (\$100,000); Elderberry Neighborhood Extension (\$375,000); the Pumpkin Hollow Sewer Interceptor Extension (\$375,000); the Northeast (Sprecher) Neighborhood Extension (\$450,000); and minor extensions to serve adjacent Town properties requesting sewer service and annexing to the City in accordance with inter-governmental agreements (Bultman, Felland, Cottage Grove Road, Valley View Road). The award of contracts for work will require assurances that private development will occur. The Utility's costs will be recovered by impact fees and/or special assessments. Funding includes \$1,125,000 in Revenue Bonds reauthorized from the 2008 Capital Budget, \$87,500 of impact fees, and \$87,500 of special assessments.

Other 1,300,000  
\$ 1,300,000

#### **Lift Station Rehabilitations** Project No. 4 Acct. No. 810334

GO \$ 0 This project is for capitalized repair and rehabilitation of the Utility's 30 wastewater lift stations (LS) and forcemains or other appurtenances. Repair and rehabilitation planned for 2009 includes replacement of forcemains at the North Carroll Lift Station and the Waunona Way / Woodley Lane Lift Station. Other projects for 2009 include the decommissioning of the Nelson Road and Hawks Woods Lift Stations (\$25,000 each); the installation of telemetry equipment at the Lois Lowry LS and the Debs Road LS. This item also covers any unanticipated major repairs and equipment replacement. Lastly, this budget item shall include costs for hiring a consultant to evaluate the condition of the older forcemains and make recommendations for a replacement schedule.

Other 425,000  
\$ 425,000

**Improvements In Sewer Study Areas** Project No. **5** Acct. No. 810333

GO \$ 0 This project is for the continuing work on inflow and infiltration problems in specific areas.  
Other 200,000 Proposed projects for 2009 include finding inflow and infiltration sources to the Wright Street  
\$ 200,000 Pumping Station (\$35,000) and rehabilitation of sewer structures in the Truax Area  
(\$165,000). This budget item anticipates continuing work in future years as more of the  
problems are better defined, and implementing a Sewer Access Structure (manhole) lining  
contract. Funding from Utility Reserves includes \$200,000 reauthorized from the 2008  
Capital Budget.

**Hoard Area Sewer Replacements** Project No. **6** Acct. No. 810329

GO \$ 0 In 1993 and again in 1996, residents residing in several blocks centering around Hoard and  
Other 650,000 Kedzie Streets suffered sanitary sewerage flooding into their basements. The City performed  
\$ 650,000 a detailed study to seek solutions to lessen the chance of future flooding. Implementation of  
the corrective action began with the replacement of the sewer interceptor on Johnson Street  
in 1997. This is for Phase 4, the final phase. Included streets will be Oak from East Johnson  
to Commercial, and Hoard from Oak to street end. The budget provisions under this item are  
only for sanitary sewer related costs. Street and Storm Sewer costs are budgeted separately.  
This budget provides for funding for further replacement, tentatively set for 2009 and 2010.

**E Washington Ave Sewer Replacement** Project No. **7** Acct. No. 810330

GO \$ 0 This project is the replacement of existing, aged sanitary sewer facilities in the East  
Other 300,000 Washington Avenue street right-of-way and some adjoining side streets, in conjunction with a  
\$ 300,000 major street reconstruction project over several years. It is anticipated that the project shall  
consist of a few sewer main abandonments and many main replacements. Design work was  
completed in 2008 for the Final Phase (Segment 4), with construction to start in 2009. The  
budget in 2010 anticipates some follow up work such as lining of mains that were spared  
replacement. Funding includes \$275,000 in Revenue Bonds reauthorized from the 2007  
Capital Budget and \$25,000 in Revenue Bonds reauthorized from the 2008 Capital Budget.

**Felland Area Sewer to Nelson Road** Project No. **8** Acct. No. 810548

GO \$ 0 This project shall acquire necessary easements and extend sanitary sewer service to the  
Other 1,400,000 north of the Felland Neighborhood, and to Nelson Road. This shall provide service to this  
\$ 1,400,000 developing area north of Burke Road and both east and west of Felland. This will also relieve  
the Nelson Road Lift Station which is nearing capacity and precluding further development.  
In 2008 an Impact Fee District was established to recover the costs of this project. The cost  
recovery shall occur over time as development occurs with pro-rata payments indexed to the  
Construction Cost Index. The land acquisitions and construction of Phase 1 were completed  
in 2008. The land acquisition and construction for the final segment (Phase 2) is budgeted  
with this item for 2009. Funding includes \$475,000 in Revenue Bonds reauthorized from the  
2007 Capital Budget and \$475,000 in Revenue Bonds reauthorized from the 2008 Capital  
Budget, as well as \$450,000 in impact fees.

**Lower Badger Mill Creek Sewer** Project No. **9** Acct. No. 810550

GO \$ 0 This project shall extend sanitary sewer service to the Lower Badger Mill Creek Watershed,  
Other 1,968,750 from a proposed lift station at Mid Town Road to just north of Mineral Point Road. Final plans  
\$ 1,968,750 were completed in 2007, and property acquisitions were begun. Lift station design was also  
completed in 2007. The Lift Station, forcemain and gravity main work along Mid Town Road  
is anticipated to be bid in late 2008. This budget item is for the remainder of the interceptor  
from Mid Town Road to the north, which may be broken into two installation phases.  
Construction of the interceptor is also dependent on the property owner support and  
documentation of the development investments. Funding includes \$1,968,750 in Revenue  
Bonds reauthorized from the 2008 Capital Budget.

**Sewer Access Improvements**Project No. **10** Acct. No. 810623

GO	\$	0	This project is for the establishment of permanent maintenance access roads, trails, or paths in areas where access was not well established with initial installation and where access has gradually declined due to numerous factors. This project will cover surveys, neighborhood coordination, extensive tree removals, constructing gravel road base, and restoration. Initial needs are identified in the Sauk Creek Greenway and a small greenway in the Midvale / Hillcrest area.
Other		<u>100,000</u>	
		<u>\$ 100,000</u>	

**Replacement Vehicles & Equipment**Project No. **11** Acct. No. 810323

GO	\$	0	This project is for the replacement of existing vehicles and equipment that have exceeded their useful life. Vehicles scheduled for replacement in 2009 include two equipment trailers (#7560 and 7562); 14' boat (#8475); pressure washing system (#8477); five cars (#1277, 1278, 1279, 1285 and 1286); three pick up trucks (#2015, 2017 and 2018); leadworker utility repair vehicle (#2378); sewer rodder (#3311); combination sewer cleaning machine (#3118); side-slope mower (#5612); and an articulating tractor (#5688).
Other		<u>450,400</u>	
		<u>\$ 450,400</u>	

**New Vehicles & Equipment**Project No. **12** Acct. No. 810323

GO	\$	0	This project is for the addition of vehicles and equipment. In 2009 this project includes the purchase of a biodiesel reactor. Cost represents Sewer Utility portion only.
Other		<u>24,500</u>	
		<u>\$ 24,500</u>	

**Engineering Service Building**Project No. **13** Acct. No. 0

GO	\$	0	This project is for additions and upgrades to the Engineering Service Building. In 2010 this project provides for construction of a 5,000 square foot addition to the Engineering Service Building to provide additional vehicle storage space. The existing facility is over capacity and additional space is needed to provide safe and secure vehicle and equipment storage space. Additionally, a solar thermal water heating system will be added to the existing facility. Costs represent the Sewer Utility portion only.
Other		<u>0</u>	
		<u>\$ 0</u>	

**Basement Back Up Elimination Prog**Project No. **14** Acct. No. 810624

GO	\$	0	This program will provide assistance to residential properties which have experienced sewer backups and basement flooding during rain events. This would include the removal of foundation drains, roof drains and/or the installation of backflow prevention devices on the sanitary lateral. Reduction of inflow and infiltration into the sanitary sewer system is critical. Clean water intrusion into the sanitary sewer system creates potential sewer flooding problems and increases the City's operational costs at the Wastewater Treatment Plant.
Other		<u>150,000</u>	
		<u>\$ 150,000</u>	

Note: Unless otherwise stated, other funding is from Utility reserves or revenue bonds.

**2009  
Capital Budget  
Summary**

**Agency Name: Sewer Utility**

**Agency Number: 54**

Project Name	Agency Request	Executive	Adopted		
			G.O. Debt	Other Funding	Total
1 Sewer with Reconstructed Streets	\$ 5,600,000	\$ 5,600,000	\$ 0	\$ 5,600,000	\$ 5,600,000
2 In-Place Sewer Rehabilitations	300,000	300,000	0	300,000	300,000
3 Additions To Collection System	1,300,000	1,300,000	0	1,300,000	1,300,000
4 Lift Station Rehabilitations	425,000	425,000	0	425,000	425,000
5 Improvements In Sewer Study Areas	200,000	200,000	0	200,000	200,000
6 Hoard Area Sewer Replacements	650,000	650,000	0	650,000	650,000
7 E Washington Ave Sewer Replacement	300,000	300,000	0	300,000	300,000
8 Felland Area Sewer to Nelson Road	1,400,000	1,400,000	0	1,400,000	1,400,000
9 Lower Badger Mill Creek Sewer	1,968,750	1,968,750	0	1,968,750	1,968,750
10 Sewer Access Improvements	100,000	100,000	0	100,000	100,000
11 Replacement Vehicles & Equipment	450,400	450,400	0	450,400	450,400
12 New Vehicles & Equipment	24,500	24,500	0	24,500	24,500
13 Engineering Service Building	151,250	0	0	0	0
14 Basement Back Up Elimination Prog	150,000	150,000	0	150,000	150,000
<b>Total</b>	<b>\$ 13,019,900</b>	<b>\$ 12,868,650</b>	<b>\$ 0</b>	<b>\$ 12,868,650</b>	<b>\$ 12,868,650</b>