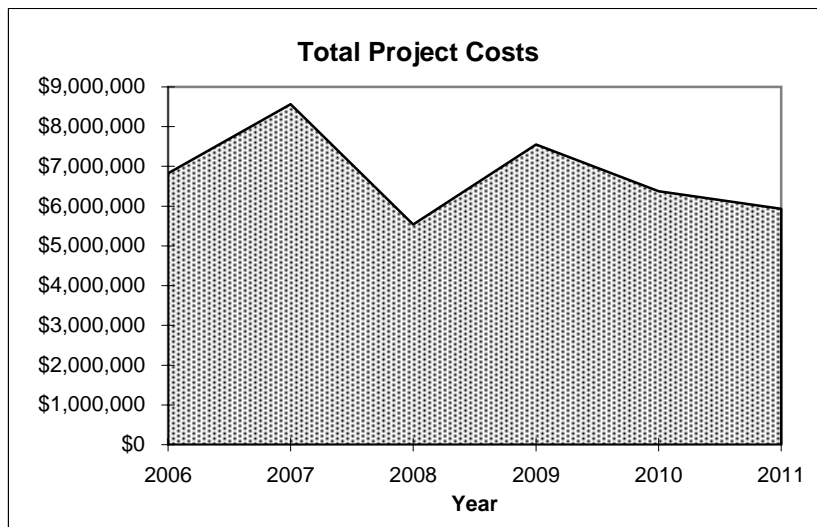


2006 Capital Budget Capital Improvement Program

Agency Name: **Stormwater Utility**

Agency Number: 56

Project Name	Capital Budget	Future Year Estimates				
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
1 Storm Sewer with Street Projects	\$ 2,427,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000
2 Greenway Improvements	225,000	250,000	250,000	250,000	250,000	250,000
3 EPA/NPDES Permit	75,000	36,000	41,000	41,000	42,000	50,000
4 Stormwater Basins	250,000	450,000	450,000	750,000	450,000	450,000
5 Felland Area Drainage Ext./Nelson Rd.	330,000	130,000	0	0	0	0
6 Storm Box Replacement/Cleaning	100,000	100,000	100,000	100,000	100,000	100,000
7 Major Roadway Culvert Crossings	75,000	75,000	75,000	75,000	75,000	75,000
8 Assessable Drainage Improvements	200,000	200,000	200,000	200,000	200,000	200,000
9 Shorelines	300,000	250,000	250,000	250,000	250,000	250,000
10 Local Drainage Problems	150,000	75,000	75,000	75,000	75,000	75,000
11 Madison-Sun Prairie Detention Pond	50,000	0	0	0	0	0
12 Hoard Area Sewer Replacements	0	0	200,000	0	0	0
13 Upper Badger Mill Creek Watershed	105,000	770,000	210,000	1,050,000	0	0
14 Inter-Municipal Storm Management	100,000	350,000	100,000	100,000	100,000	100,000
15 Wingra Creek Corridor	250,000	250,000	200,000	200,000	0	0
16 Lake Wingra Dam Rehabilitation	35,000	125,000	125,000	0	0	0
17 Willow Creek Relief Storm, Ph. 3	50,000	1,500,000	0	0	0	0
18 Starkweather Creek Watershed	100,000	580,000	180,000	180,000	180,000	180,000
19 Street Cleaning Equipment	280,000	555,000	280,000	280,000	280,000	420,000
20 Replacement Vehicles and Equipment	70,000	165,000	140,000	175,000	181,500	181,500
21 Furnishings and Equipment	61,500	0	0	0	0	0
22 1000 Rain Gardens	50,000	133,333	133,333	133,333	0	0
23 Warning Sirens	75,000	0	0	0	0	0
24 Lower Badger Mill Creek	1,036,000	779,982	655,669	1,824,561	2,321,596	1,732,002
25 Urban Water Quality Enhance. Prog.	430,000	40,000	120,000	120,000	120,000	120,000
Total	\$ 6,824,500	\$ 8,564,315	\$ 5,535,002	\$ 7,553,894	\$ 6,375,096	\$ 5,933,502

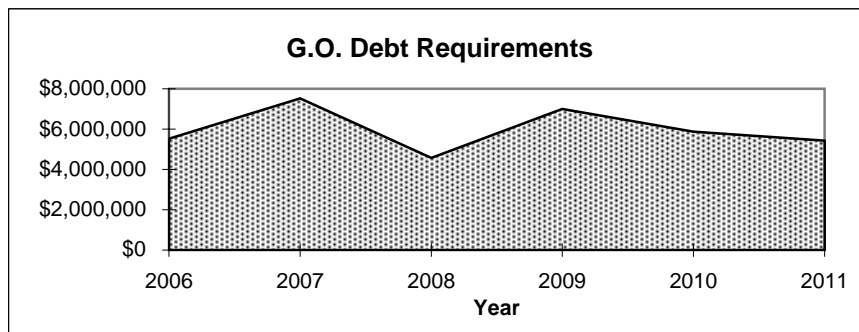


**2006
Capital Budget
Expenditure Categories and Funding Sources**

Agency Name: **Stormwater Utility**

Agency No.: 56

All Projects	Capital Budget	Future Year Estimates				
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
Expenditures:						
Purchased Services	\$ 0	\$ 135,000	\$ 0	\$ 0	\$ 0	\$ 0
Materials & Supplies	136,500	0	0	0	0	0
Inter-Agency Charges	0	0	0	0	0	0
Inter-Fund Transf. Out	0	0	0	0	0	0
Professional Fees	410,000	186,512	321,669	655,651	86,500	50,000
Land & Land Improve	5,928,000	7,657,803	4,793,333	6,443,243	5,827,096	5,282,002
Building & Bldg Improve	0	0	0	0	0	0
Equipment and Vehicles	350,000	585,000	420,000	455,000	461,500	601,500
Other	0	0	0	0	0	0
Total Project Costs	\$ 6,824,500	\$ 8,564,315	\$ 5,535,002	\$ 7,553,894	\$ 6,375,096	\$ 5,933,502
Funding Sources:						
Federal Sources	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
State Sources	0	50,000	50,000	50,000	0	0
County Contributions	0	0	0	0	0	0
Private Contributions	0	0	0	0	0	0
Revenue Bonds	0	0	0	0	0	0
Special Assessments	240,000	247,500	247,500	247,500	247,500	247,500
TIF	0	0	0	0	0	0
Carry-Forward Applied	0	0	0	0	0	0
Reserves Applied	918,000	515,000	440,000	225,000	231,500	231,500
Other	135,000	230,000	230,000	30,000	30,000	30,000
Total Other Sources	\$ 1,293,000	\$ 1,042,500	\$ 967,500	\$ 552,500	\$ 509,000	\$ 509,000
G.O. Debt	\$ 5,531,500	\$ 7,521,815	\$ 4,567,502	\$ 7,001,394	\$ 5,866,096	\$ 5,424,502



**2006
Capital Budget
Summary**

Agency Name: Stormwater Utility

Agency Number: 56

Project Name	Agency Request	CIRC	Executive	Executive		
				G.O. Debt	Other Funding	Total
1 Storm Sewer with Street Projects	\$ 2,427,000	\$ 2,427,000	\$ 2,427,000	\$ 2,287,000	\$ 140,000	\$ 2,427,000
2 Greenway Improvements	225,000	225,000	225,000	175,000	50,000	225,000
3 EPA/NPDES Permit	75,000	75,000	75,000	75,000	0	75,000
4 Stormwater Basins	250,000	250,000	250,000	250,000	0	250,000
5 Felland Area Drainage Ext./Nelson Rd.	330,000	330,000	330,000	168,500	161,500	330,000
6 Storm Box Replacement/Cleaning	100,000	100,000	100,000	50,000	50,000	100,000
7 Major Roadway Culvert Crossings	75,000	75,000	75,000	75,000	0	75,000
8 Assessable Drainage Improvements	200,000	200,000	200,000	0	200,000	200,000
9 Shorelines	300,000	300,000	300,000	300,000	0	300,000
10 Local Drainage Problems	150,000	150,000	150,000	37,500	112,500	150,000
11 Madison-Sun Prairie Detention Pond	50,000	50,000	50,000	50,000	0	50,000
12 Hoard Area Sewer Replacements	0	0	0	0	0	0
13 Upper Badger Mill Creek Watershed	105,000	105,000	105,000	0	105,000	105,000
14 Inter-Municipal Storm Management	100,000	100,000	100,000	100,000	0	100,000
15 Wingra Creek Corridor	250,000	250,000	250,000	112,500	137,500	250,000
16 Lake Wingra Dam Rehabilitation	35,000	35,000	35,000	35,000	0	35,000
17 Willow Creek Relief Storm, Ph. 3	50,000	50,000	50,000	50,000	0	50,000
18 Starkweather Creek Watershed	500,000	100,000	100,000	100,000	0	100,000
19 Street Cleaning Equipment	280,000	280,000	280,000	200,000	80,000	280,000
20 Replacement Vehicles and Equipment	70,000	70,000	70,000	0	70,000	70,000
21 Furnishings and Equipment	61,500	61,500	61,500	0	61,500	61,500
22 1000 Rain Gardens	50,000	50,000	50,000	0	50,000	50,000
23 Warning Sirens	75,000	75,000	75,000	0	75,000	75,000
24 Lower Badger Mill Creek	1,036,000	1,036,000	1,036,000	1,036,000	0	1,036,000
25 Urban Water Quality Enhance. Prog.	430,000	430,000	430,000	430,000	0	430,000
Total	\$ 7,224,500	\$ 6,824,500	\$ 6,824,500	\$ 5,531,500	\$ 1,293,000	\$ 6,824,500

Capital Budget

Stormwater Utility

Storm Sewer with Street Projects Project No. 1 Acct. No. 810381

GO \$ 2,287,000
Other 140,000
\$ 2,427,000

This project is for the design and installation of storm sewer systems that 'accompany' street projects. This is a continuing program to provide mainline storm sewer improvements, replacements, and rehabilitation in conjunction with City streets being reconstructed and resurfaced. Additionally, this project consists of installing various conduits to serve streets being improved with curb and gutter and bituminous pavement, as directed by the Common Council (Major Streets). This project also funds the an annual 'Waterway Repairs' Contract that is used for small drainage improvements.

Greenway Improvements Project No. 2 Acct. No. 810382

GO \$ 175,000
Other 50,000
\$ 225,000

This projects finances the capitalized cost to rehabilitate and repair drainage channels or greenways that are used to transport stormwater runoff including land acquisition, landscaping, and the maintenance of trees. In 2006, the Utility proposes to repair the greenway in Westmoreland Park (Lake Wingra Watershed) in order to eliminate erosion.

EPA/NPDES Permit Project No. 3 Acct. No. 810383

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

This project funds the work necessary to maintain the City's U.S. EPA National Discharge Elimination System Permit. Work includes monitoring, modeling, information and educational outreach, and annual reporting.

Stormwater Basins Project No. 4 Acct. No. 810384

GO \$ 250,000
Other 0
\$ 250,000

This project funds capitalized rehabilitation and repair of the Utility's stormwater detention/retention basins. Specific projects include the design of a detention basin in Owen Park adjacent to Jetty Drive and the Blackhawk Pond adjacent Hidden Cave. Included in the project is the work of sediment removal necessary to maintain efficient stormwater treatment. Sediment removal from the pond at Odana Hills Golf Course is proposed to be designed and permits requested in 2008, with the construction shown in 2009. Potential projects include Kettle Pond adjacent to Old Middleton Road, the Strickers Pond Forebay, Acewood Retention Basin, Morningside Retention Basin, and Warner Park Lagoon outlet channel.

Felland Area Drainage Ext./Nelson Rd. Project No. 5 Acct. No. 0

GO \$ 168,500
Other 161,500
\$ 330,000

This project shall acquire necessary easements and extend interim greenway drainage service to the North of the Felland Neighborhood, and to Nelson Road. This shall provide service to this developing area North of Burke Road and both East and West of Felland. It is anticipated that an Impact Fee District shall be 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 shall be linked with extension of Public Sanitary Sewer to also serve the area (budgeted separately). Design and acquisition shall occur in 2006 with construction in 2007.

Storm Box Replacement/Cleaning Project No. **6** Acct. No. 810385

GO \$ 50,000 This is a continuing program to systematically replace aged and failing storm sewer box
Other 50,000 culverts. Many areas have been identified from emergency repairs and previous problems.
\$ 100,000 Additionally, many storm boxes that are structurally sound are in need of maintenance in the
form of cleaning. Sediment has accumulated in the storm sewers, cutting conveyance
efficiencies by up to 50% or more. Many segments of storm sewer have been identified as
needing this cleaning and maintenance. This item shall fund either a cleaning project or a
replacement project, or a combination of both, depending on priorities and available funding.
Possibly this item would be used for partial funding in conjunction with the reconstruction of
Dunning Street or Randall Ave or as stand alone projects such as the replacement or rehab
of the failing storm sewer culvert in the Manitou Way median, or same for the failing box
culvert in Blount (E Wash to Williamson).

Major Roadway Culvert Crossings Project No. **7** Acct. No. 810386

GO \$ 75,000 This project is for major (larger size) stormwater culvert crossings under roadways in areas of
Other 0 new development or in areas impacted by new development. When the crossing is entirely
\$ 75,000 within a newly platted street, it is proposed that the City pay only for the proportion of the total
project cost that can be attributed to a culvert end area in excess of 64 square feet. Actual
expenditures are dependent on developments approved by the City.

Assessable Drainage Improvements Project No. **8** Acct. No. 810387

GO \$ 0 This project is for major additions to the stormwater management system in developing
Other 200,000 areas. The work include wetland and floodplain surveys, planning, and permitting. Potential
\$ 200,000 projects include subsequent phases of the Center for Industry & Commerce Plat and the
Interstate Commerce Park Plat.

Shorelines Project No. **9** Acct. No. 810388

GO \$ 300,000 The shoreline Improvement Program is for large-scale improvements to the shoreline of
Other 0 lakes, creeks, and rivers. Funding under this item was increased in 2001 to allow for
\$ 300,000 additional major repair work as a result of the Flood of 2000 and the effects of deferred
maintenance. Projects scheduled for permitting and construction in 2006 are the shorelines of
Olbrich Park and James Madison Park.

Local Drainage Problems Project No. **10** Acct. No. 810389

GO \$ 37,500 City Engineering maintains a database of approximately 200 drainage problems and plans for
Other 112,500 solutions as time and money allows. This budget item would continue to implement solutions
\$ 150,000 to the drainage problems on a prioritized basis, as determined by the City Engineer and the
Common Council. Portions of these projects can be assessed to benefiting properties.
Potential projects for 2006 include storm sewer on Riverside Drive (\$30,000 assessable), the
low point at 2102 University Avenue (\$45,000 non-assessable), and / or reroute storm from
Heritage Sanctuary.

Madison-Sun Prairie Detention Pond Project No. **11** Acct. No. **0**

GO \$ 50,000
Other 0
\$ 50,000

In 1996, the Cities of Madison and Sun Prairie entered into an agreement to purchase open space land separating the two municipalities in the vicinity of Hoepker Road and USH 151, and to construct a regional stormwater retention facility. A substantial portion of the facility construction was completed in 2001 under the 2000 budget. Additional work in 2003 / 2004 included the planting of wetland plants in accordance with the environmental permit requirements. The last remaining item consists of the construction of the ultimate outlet control structure, which has been delayed for coordination with the proposed DOT highway interchange project at this location, adjacent to the stormwater facility. The DOT construction is now tentatively scheduled for 2005. This final phase will conclude this project.

Hoard Area Sewer Replacements Project No. **12** Acct. No. **810390**

GO \$ 0
Other 0
\$ 0

In 1993 and again in 1996, residents in this area (several blocks centering around Hoard @ Kedzie) suffered sanitary sewerage flooding into their basements. Subsequently, the City performed a detailed study to seek solutions to lessen the chance of future flooding. Implementation for this area began with the replacement of the sewer interceptor on Johnson Street in 1997. Phase 4 includes storm sewer for Johnson from North Lawn to Washington, Washington from Johnson to Oak, Oak from Washington to Hoard, and Hoard from Oak to Street End. Stormsewers will be included in the 2007 Phase of East Washington Avenue.

Upper Badger Mill Creek Watershed Project No. **13** Acct. No. **810391**

GO \$ 0
Other 105,000
\$ 105,000

This is a phased project including the survey, design, permitting, acquisition of lands, and construction to create a regional storm water management system of greenways, retention ponds, wetlands, and environmental corridor buffer lands within this watershed. Work in 2006 shall anticipate the purchase and design of greenway improvements from Raymond Road to CTH "M" within lands owned by Dane County Parks. Also, acquisition (dedication) and design shall take place for the greenway section from Mid Town Road to CTH M. The Utility's portion of the cost of the work is estimated at 62.6%, the existing development within the Watershed that benefits from the improvements. The remaining costs will be recovered from impact fees and special assessments.

Inter-Municipal Storm Management Project No. **14** Acct. No. **810392**

GO \$ 100,000
Other 0
\$ 100,000

This project is for the funding of cooperative projects with neighboring municipalities. The work is detailed in inter-governmental agreements, which establish the level of cost participation. Potential projects include the Lake Edge Park Sediment Removal Project (City of Monona); Lake Wingra Watershed (UW Arboretum); Rambling Acres Pipe/Greenway (Town of Blooming Grove); Lake Forest Detention Basin (Town of Madison); and the Triangle Street Outlet (Village of McFarland).

Wingra Creek Corridor Project No. **15** Acct. No. **810268**

GO \$ 112,500
Other 137,500
\$ 250,000

The Wingra Creek Corridor is in need of shoreline and embankment work to enhance stormwater conveyance and water quality as well as provide a more enhanced corridor for pedestrian usage. Planning, design, and permitting began in 2003, with implementation phases proposed over 3 or more years.

Lake Wingra Dam Rehabilitation Project No. **16** Acct. No. 810513

GO \$ 35,000 The Wisconsin Department of Natural Resources has formally issued orders to repair the
Other 0 Dam as a result of unacceptable deterioration found upon their last inspection of the Dam.
\$ 35,000 The response to those orders, and the schedule for specific portions of compliance has been
negotiated with the WDNR and agreed to. This item shall begin the process to comply with
the orders. It is anticipated that Dam Failure Analysis/Spillway Capacity report shall be
completed in 2005. Repair design plans, specifications, and permitting would follow in 2006,
with construction repairs in 2007 and 2008.

Willow Creek Relief Storm, Ph. 3 Project No. **17** Acct. No. 810514

GO \$ 50,000 This is a continuing flood reduction project that was begun in 2003 ahead of the COGEN
Other 0 plant construction. The project in 2003 constructed approximately 300 feet of storm sewer
\$ 50,000 box along the North side of the railroad tracks from Willow Creek to the West (South of the
then proposed COGEN facility). Phase 2 (2005) connects to the end of this box and bores
under Campus Drive with a 96" RCP where the new pipe to connect to the existing box
between Octopus Car Wash and Don The Muffler Man on University Avenue. This phase
(design 2006, construct 2007) shall lower flood elevations at the intersection of University and
Highland Avenue by approximately 1.25' and provide property protection meeting or slightly
exceeding the 10 year standard afforded in other areas of the City. Future phases may be
considered to reduce the flooding of the rail corridor west of Highland Avenue, should
passenger rail be considered.

Starkweather Creek Watershed Project No. **18** Acct. No. 810394

GO \$ 100,000 The shoreline of the creek shall be improved from Darbo Drive to Milwaukee street. This
Other 0 work shall be coordinated with the Washington Avenue reconstruction and the construction of
\$ 100,000 pedestrian/bike bridges over Washington and Aberg adjacent to the creek in 2007. Future
projects include the evaluation of the capacity of soils and availability of locations in the
watershed to infiltrate rainwater and the formulation of a strategy to maximize infiltration;
restoration of the wetland in O.B.Sherry park; and the restoration of eroded stream banks
with bioengineered slopes. These projects will be performed in conjunction with the
construction of a hiking and biking trail systems along both branches of Starkweather Creek
and initiation of a public education campaign at Olbrich Gardens regarding water quality in an
urban watershed, with adjacent Starkweather Creek as a case study.

Street Cleaning Equipment Project No. **19** Acct. No. 810393

GO \$ 200,000 This item is for the replacement of two mechanical street sweeping machines. Sweepers
Other 80,000 require a high level of maintenance and are recommended for replacement on a 5 year cycle.
\$ 280,000 Currently, 8 mechanical sweepers and 2 vacuum sweepers are in service, one of which is on
loan from Elgin. Replacement cost is presently approximately \$140,000. In 2006, planning
will commence to expand weekly sweeping to Aldermanic District 4 and that portion of
Aldermanic District 2, which is not being swept on a weekly basis. Weekly sweeping will
commence in those areas in the spring of 2007. One additional vacuum sweeper will be
added in 2007. The budget for signing is \$135,000 to support this initiative.

Replacement Vehicles and Equipment Project No. **20** Acct. No. 810326

GO \$ 0 This project is for the replacement of vehicles and equipment which have exceeded their
Other 70,000 useful life. Some items scheduled to be replaced include #7816, a forklift purchased in 1991;
\$ 70,000 #2638, the TV equipped van for doing TV work in sanitary and storm sewers; #3114, a 1997
Vactor; #2939, 2940, 2 Heavy duty pick up trucks. These items will also have funding from
Sewer Utility and Landfill capital budgets.

Furnishings and EquipmentProject No. **21** Acct. No. 0

GO \$ 0 This project is for the furnishings needed for the expanded Engineering Services Building.
 Other 61,500
\$ 61,500

1000 Rain GardensProject No. **22** Acct. No. 810515

GO \$ 0 The City of Madison is proposing a project to construct 1000 rain gardens. Emphasis is on
 Other 50,000 the University/Midvale Watershed, which drains to Lake Mendota. Grants will be requested in
\$ 50,000 2006 for the construction of rain gardens on private lands in 2007 in partnership with property
 owners. In 2006, approximately 55 rain gardens will be installed on city lands for the purpose
 of infiltrating storm water from the roofs of buildings. Biological treatment practices will be
 employed to treat stormwater from parking lots and drives.

Warning SirensProject No. **23** Acct. No. 810485

GO \$ 0 In 2005, the Storm Water Utility assumed the responsibility of installing and maintaining
 Other 75,000 Emergency Warning Sirens. The funding for 2006 is to replace 4 sirens, 2 new sirens and 2
\$ 75,000 rebuilt sirens. The exact locations of the sirens is yet to be determined, as staff is working
 with the City of Fitchburg to best locate the sirens for maximum benefit.

Lower Badger Mill CreekProject No. **24** Fund No. 0

GO \$ 1,036,000 This project shall provide for design, installation, and acquisition of lands where needed, all
 Other 0 for implementation of a regional storm water management plan for the Lower Badger Mill
\$ 1,036,000 Creek Watershed. Development within this watershed is contingent upon implementation of
 this plan. Full implementation shall occur over 5 to 10 years, and shall be primarily funded by
 special assessments or impact fees to lands within the watershed, levied at the time of
 development (and indexed for inflation). The 2006 phase shall be acquisition of greenway
 lands for an interim drainageway. The 2007 phase shall construct this greenway and
 pertinent culverts, in conjunction with extension of sanitary sewer service (separately
 budgeted).

Urban Water Quality Enhance. Prog.Project No. **25** Acct. No. 0

GO \$ 430,000 This project shall cover modest projects that enhance urban storm water quality, where more
 Other 0 traditional methods are precluded from use. Proposed projects for 2006 include: Parr Street
\$ 430,000 Outfall at Monona Bay (inline device to trap sediment and floatables); purchase of 5 to 7
 "solar bees" (dependent on success of 2005 trial); Urban catchment devices (for collection of
 sediment and / or debris) at priority locations or locations of opportunity. Possible locations
 for 2006 are Dunning Street, Randall Avenue, and Mandan Crescent (all with street
 resurfacing or reconstruction). Another likely 2006 project would be a trial use of a 'polymer
 sock' to treat retention ponds to promote faster and more efficient sedimentation.

Note: Unless otherwise specified, other funding is from Stormwater reserves applied.