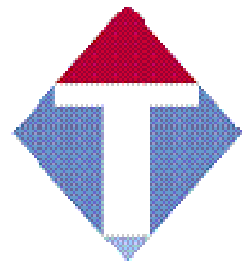


Executive Summary



STORM WATER MASTER PLAN

Prepared for:
City of Trotwood
Trotwood, Ohio

Prepared by:
Woolpert, Inc.

July 2008

EXECUTIVE SUMMARY

Woolpert, Inc. is pleased to have been involved in the development of the City of Trotwood's Storm Water Master Plan. The following is a summary of the purpose, goal and strategies developed to provide direction from the City in the development of this Master Plan. Recommendations and the implementation process are also addressed.

Purpose

The purpose of this Storm Water Master Plan is to establish a storm water management road map that will address the present and future storm water needs in the City of Trotwood for the next 20 years. The master planning vision is two-fold:

- To look at the storm water management in the entire community with the intent of developing a program that will ensure that citizens of Trotwood do not suffer any adverse affects because of storm water runoff, and
- To view storm water as a resource, not as a waste stream. This view will allow storm water amenities to become beneficial assets of the community.

Goals and Strategies for Storm Water Management Program

To maximize the cost-effectiveness and to gain broad public support, storm water management programs should be multi-faceted, establishing goals to address the important runoff related problems within a jurisdiction. Program goals should be based on problems which are clearly recognized as being important and interrelated by the general public and elected officials at the implementation level.

By defining areas of importance, and the necessary resources that must be available when they are needed, a City can better recognize the short- and long-term commitments that accompany the program.

For the City of Trotwood Storm Water Management Program, the following goals and strategies were set by the Public Works Department staff:

Goal	Strategy
To comply with the Federal Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES) Storm Water Phase II regulations.	Ensure that the City has policies and procedures in-place to comply with the federal and state storm water regulations.
To manage storm water using a watershed-based approach.	Develop and implement a watershed-based strategy for the watersheds within the City.
To reduce and prevent storm water problems within the City.	Develop a comprehensive approach to storm water management in the City.
Enhance the quality of life in Trotwood through storm water.	Look for opportunities to preserve the natural beauty of the City, and to enhance recreational and educational amenities.

Storm Water Master Plan

This master plan is set up to allow the City to make decisions and implement the plan in conjunction with the overriding program goals for storm water management. The City of Trotwood is in a very enviable situation. As approximately 60% of the City is still undeveloped, there are many opportunities to move forward and yet preserve the water quality of its waterways. The following is a brief narrative to discuss what this master plan will address for each of the program goals established.

Goal	Strategy
To comply with the Federal Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES) Storm Water Phase II regulations.	Ensure that the City has policies and procedures in-place to comply with the federal and state storm water regulations.

City staff has addressed the NPDES Storm Water Phase II requirements since the Notice of Intent (NOI) submittal in March of 2003 and the receipt of their General Permit in April 2003. An annual program update is required to be submitted each January. A representative of the Ohio Environmental Protection Agency (OEPA) audited the City's program in 2007. Based on comments from the Public Works Department staff, the OEPA comments were minimal.

The Public Works Department will continue to administer the program elements required to meet the NPDES Storm Water Phase II requirements. It is recommended that staff incorporate new elements from this Master Plan as appropriate. As this Master Plan unfolds, any tasks performed that meet the requirements of the six minimum controls should be reported. This can only solidify and/or enhance the City's current good standing with OEPA. OEPA will also be releasing the latest Phase II requirements for all communities later this year (2008).

As this Master Plan is implemented, the staff should also recognize that City codes and ordinances may need to be updated to fully implement storm water management into the fabric of the City.

Goal	Strategy
To manage storm water using a watershed-based approach.	Develop and implement a watershed-based strategy for the watersheds within the City.

To fully implement this storm water master plan, the City will need to change their focus of storm water management from a site-based approach to a watershed-based approach. This trend is sweeping the country as discharge limits for large watersheds are being established at the state and national levels. A watershed-based approach looks at land use, water resources, and infrastructure throughout a watershed. Some of the results of this approach are:

- Sustainable development criteria are set for future projects
- Development and re-development are based on unique watershed characteristics
- Design standards are updated to achieve these goals
- Best management practices (BMP) for projects to use that incorporates sustainable techniques are developed

For the City of Trotwood, this Master Plan looks at the sub-watersheds within the City limits. These sub-watersheds are delineated and characterized so staff will have a good understanding of the uniqueness of each sub-watershed. As future development and redevelopment occurs, staff will rely upon this information for requiring storm water management techniques and practices.

The Wolf Creek watershed is extremely important to the City of Trotwood, as it envelopes about two-thirds of the City. This Master Plan focuses on Wolf Creek, and the importance of this natural resource. It should be noted however, that the sub-watersheds within the City that drain elsewhere are equally important to the water quality and overall quality of life for the City. This plan recommends that all storm water policies, procedures, and programs implemented within the City be applied equally across the City, so that the City’s storm water practices benefit all the surrounding watersheds and natural resources.

Goal	Strategy
To reduce and prevent storm water problems within the City.	Develop a comprehensive approach to storm water management in the City.

A comprehensive approach to storm water management in the City of Trotwood will:

- Decrease the potential flood damage to public and private property by maintaining the current storm water infrastructure, and by properly building new infrastructure
- Preserve the natural drainage systems by minimizing the water quality degradation and sedimentation of water bodies and the loss of wildlife habitat
- Minimize impacts of increased runoff, erosion, and sedimentation due to uncontrolled and improper land development
- Maintain and protect groundwater resources.

Comprehensive storm water programs typically include coordination of the following:

- Flooding
- Erosion and sediment control
- Stream channel erosion and sedimentation buildup
- Water quality
- Wetlands protection
- Floodplain management
- Water supply
- Wellhead protection/groundwater recharge
- Wastewater management
- Land use planning
- Zoning
- Building permits
- Land acquisition
- Tree protection

As the implementation of this storm water management road map begins, City staff will more fully recognize that a comprehensive storm water program will impact all areas of government, and can be a common thread that pulls a community closer together.



The City already has a firm handle on the following:

- NPDES Storm Water Phase II requirements
- Storm water utility billing
- Storm water regulations
- Plan review and inspection
- Erosion and sediment control
- System maintenance
- Land use planning
- Comprehensive community master planning
- Development and re-development opportunities

This Master Plan presents elements that can enhance all of these ongoing programs, and weave the storm water thread throughout the community. This Master Plan also identifies some gaps that need to be addressed to make the programs even better.

Goal	Strategy
Enhance the quality of life in Trotwood through storm water.	Look for opportunities to preserve the natural beauty of the City, and to enhance recreational and educational amenities.

To view storm water as a resource, and not as a waste stream, is a major paradigm shift for some communities. The City of Trotwood is fortunate to have leadership in place who already see the value of this resource, and are poised to implement change that will benefit the community. This view will allow storm water amenities to become beneficial assets of the community. To preserve the natural beauty, and enhance the recreational and educational amenities of the City through storm water, this Master Plan:

- Identifies existing parks and waterways that can be enhanced through storm water amenities
- Identifies new recreational and beautification ideas using storm water features
- Identifies educational programs to get the public involved in storm water. Getting the public interested in, and ultimately participating and contributing to storm water related projects will make them feel a part of the programs and ultimately increase enjoyment of the features.

“Storm Water to Recreation” is the vision of utilizing necessary storm water facilities for recreational purposes. A very effective way to find opportunities for incorporating storm water best management practices into existing parks and waterways, as well as with future developments, is to look for both passive and active opportunities that will enhance the City’s recreational goals, as well as provide great opportunities to enhance the storm water management program.

RECOMMENDATIONS

Throughout this Master Plan, recommendations have been made to accomplish the City’s goals for storm water management. The Master Plan recommendations are compiled below:

Storm Water Maintenance Problems
7849 Post Town Road
4900 Block of Goodyear Drive
21 East Sherry Road
Wetland on Sycamore Woods Blvd.
Storm Water Capital Improvement Projects
Spring Run Master Plan (Little Richmond Rd./Snyder Rd.)
Cul-de-sac of Talcott Trail
Meadow Drive
Trotwood Road @ Stubbs Drive
Shasta Avenue
Second Street
Research existing drainage easements
Obtain drainage easements (to be obtained as a part of CIP projects)
NPDES Storm Water Phase II Program
Update the City’s existing storm water infrastructure map
Identify and field locate the storm sewer outfalls (major and minor) within the City
Perform field investigations to detect any illicit discharges
Develop an ordinance to allow for the removal of illicit connections from the storm sewers
Develop a plan to address and then eliminate illicit connections
Best Management Practices
Adopt Standards
Implementation of Non-Structural Measures
Reduction of impervious areas
Planting meadows
Low impact developments (LID) and conservation developments
Stream setbacks
Implementation of Structural Measures
Promote the use of water quality BMPs
Reinforce the importance of the maintenance of erosion and sediment control measures during construction
Encourage the retrofitting of existing storm water facilities
Give water quality BMP credits
Storm Water to Recreation
Support Park & Recreation Department for Storm Water to Recreation
Wolf Creek Rail Trail
Trotwood Commerce Park

Sycamore Woods Lake and Trotwood Community Center
Madison Park
North Broadway Park
Olde Town Park
The Landmark
Lazy River
Preliminary Feasibility Investigation
Master Planning & Economic Study
Public Education Programs
Have a regular feature in the City's newsletter
Have a storm water page on the City's website
Publish storm water articles in the Wolf Creek Stream Team newsletter
Use kiosks to illustrate the storm water features at the city parks and the Landmark
Distribute storm water brochures at City-sponsored public meetings and in City buildings
Promote the storm water management program through Chamber of Commerce events
Use community groups for stenciling storm water drains
School Educational Programs
Support Board of Education for Storm Water Program
Develop classroom workbooks
Provide videos on storm water management issues
Provide information on current events to be discussed in the classroom
Implement best management practices in the school yards
Develop good housekeeping practices for schools
Develop outdoor classrooms in nearby parks
Demonstration Projects

Implementation

The success of this master planning effort will not be judged by this document, but will be judged by the City's success in implementing these recommendations. The implementation is driven by both the cost to implement the plan, and the timing of the implementation. Therefore, budget and schedule planning are very important to the overall success of the program.

Budget: The City began collecting a storm water user fee in October, 2006. Based upon the annual revenues generated from the user fee and the current annual costs to own, operate, and maintain the existing storm water system, the City has decided to initially set aside about \$650,000 annually to address these recommendations. This prudent fiscal planning will ensure that the master planning recommendations get the attention that they deserve, while maintaining the same level of operation and maintenance (O&M) and NPDES Storm Water Phase II compliance that the residents of Trotwood expect. The initial fiscal planning budget is as follows:

Recommendations	Preliminary Budget Estimate
Storm Water Capital Improvement Projects	\$500,000
NPDES Storm Water Phase II Program	\$50,000

Best Management Practices	\$10,000
Storm Water to Recreation	\$50,000
Public Education Program	\$10,000
School Educational Programs	\$30,000
Total	\$650,000

It is anticipated that the \$50,000 budgeted annually for Storm Water to Recreation will be utilized to support the City’s Parks & Recreation Department in developing storm water features in the City’s parks. It is also anticipated that \$10,000 will be budgeted annually to support the Trotwood-Madison Board of Education for storm water-related curriculum development.

In the first few years of the implementation process, the City will spend additional funds to address the initial capital improvement projects identified. The City will also spend additional funds to get identified programs up and running. These monies will come from the user fee revenue currently in reserve.

Schedule: To ensure that the master plan recommendations get the attention required, it is very important that these recommendations get programmed into the overall schedule for the Public Works Department. As previously mentioned, most of the recommendations are to be implemented on an annual basis, over the next 20 years. Some of the recommendations require more effort initially to develop and setup a program. After the initial program is established, annual implementation will be necessary.

Planning Tools

To help ensure the success of this master planning effort, two planning tools were developed:

Master Plan Budget and Schedule Spreadsheet: This planning tool programs the recommendations, budgets, and schedule needs identified in this Master Plan into one document.

Preliminary Outfall Locations: The *Map of Preliminary Outfall Locations* identifies preliminary outfall locations throughout the City. This tool will be utilized to plan the direction of storm water discharges from proposed developments and to plan for infrastructure improvements. The purpose for the map is two-fold:

- To ensure that proposed storm water discharges remain within the same sub-watershed that currently receives the runoff.
- To determine undeveloped areas that are not within 0.5 miles of a defined stream within the city. It is recommended that a developer be responsible for planning and building the necessary infrastructure (up to 0.5 miles) necessary to convey storm water from a proposed development to a defined outfall or stream. It is also recommended that the City be responsible for planning and building the necessary infrastructure for the remaining distance (over 0.5 miles) necessary to provide an outfall to an open stream for a development.

It is recommended that developers generally propose routing the storm water discharges along existing roads, from their development to the pre-determined outfall point. This will allow for utilizing existing right of ways (ROW). This proposed outfall point will be determined by the staff of the Public Works Department.

It is also recommended that the City research existing drainage easements within the City. This information will assist the City in planning for the acquisition of additional drainage easements necessary to ensure future drainage needs, and to fully implement this plan.

Conclusion

This Storm Water Master Plan equips the City of Trotwood to enter into meaningful dialogs with other City departments, adjacent cities, outside agencies (such as the Montgomery SWCD, Miami Conservancy District, and Five Rivers MetroParks), and developers and to discuss storm water issues. The City can be assured that these discussions will provide better planning and better results- because *the City has a plan!*

Master Plan Budget and Schedule

City of Trotwood, OH

Recommendations	City Driven Task	Development Driven Task	Preliminary Cost	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Storm Water Maintenance Problems													
7849 Post Town Road	X		\$2,000										
4900 block of Goodyear Drive	X		\$20,000										
21 East Sherry Road	X		\$5,000										
Wetland on Sycamore Woods Blvd.	X		\$15,000										
Total													
Storm Water Capital Improvement Projects (\$500,000 annually)													
Spring Run Master Plan (Little Richmond Rd./Snyder Rd.)	X		\$175,000										
Cul-de-sac of Talcott Trail (Design & Construction)	X		\$350,000										
Meadow Drive (Design & Construction)	X		\$230,000										
Trotwood Road @ Stubbs Drive (Design & Construction)	X		\$300,000										
Shasta Avenue (Design & Construction)	X		\$300,000										
Second Street (Design & Construction)	X		\$280,000										
CIP 2011 (Design & Construction)	X		\$500,000										
CIP 2012 (Design & Construction)	X		\$500,000										
CIP 2013 (Design & Construction)	X		\$500,000										
CIP 2014 (Design & Construction)	X		\$500,000										
CIP 2015 (Design & Construction)	X		\$500,000										
CIP 2016 (Design & Construction)	X		\$500,000										
CIP 2017 (Design & Construction)	X		\$500,000										
Research existing drainage easements	X		\$30,000										
Obtain drainage easements (to be obtained as a part of CIP projects)	X		\$0										
Total													
\$5,165,000													
NPDES Storm Water Phase II Program (\$50,000 annually)													
Update the City's existing storm water infrastructure map (Full Inventory)	X		\$450,000										
Identify and field locate the storm sewer outfalls (major and minor) within the City	X		\$0										
Perform field investigations to detect any illicit discharges (Cost for First Year Only)	X		\$250,000										
Develop an ordinance to allow for the removal of illicit connections from the storm sewers	X		\$10,000										
Develop a plan to address and then eliminate illicit connections (Cost for First Year Only)	X		\$20,000										
Total													
\$730,000													
Best Management Practices (\$10,000 annually)													
Adopt Standards	X		\$1,000										
Implementation of Non-Structural Measures													
Reduction of impervious areas	X		\$2,000										
Planting meadows	X		\$10,000										
Low impact developments (LID) and conservation developments	X		\$10,000										
Stream setbacks	X		\$10,000										
Implementation of Structural Measures													
Promote the Use of Water Quality BMPs		X	\$0										
Re-enforce the importance of the maintenance of erosion and sediment control measures during construction		X	\$0										
Encourage the retrofitting of existing storm water facilities		X	\$0										
Give water quality BMP credits		X	\$0										
Total													
\$33,000													
Storm Water to Recreation (\$50,000 annually)													
Support Park & Recreation Department for Storm Water to Recreation (\$50,000/yr funding)	X		\$500,000										
Wolf Creek Rail Trail													
Trotwood Commerce Park													
Sycamore Woods Lake and Trotwood Community Center													
Madison Park													
North Broadway Park													
Olde Town Park													
The Landmark	X		\$100,000										
Lazy River													
Preliminary Feasibility Investigation	X		\$75,000										
Master Planning & Economic Study	X		\$250,000										
Total													
\$925,000													
Public Education Programs (\$10,000 annually)													
Have a regular feature in the City's newsletter (\$500/yr)	X		\$5,000										

Master Plan Budget and Schedule

City of Trotwood, OH

Recommendations	City Driven Task	Development Driven Task	Preliminary Cost	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Have a storm water page on the City's website	X		\$5,000										
Publish storm water articles in the Wolf Creek Stream Team newsletter (\$500/yr)	X		\$5,000										
Use kiosks to illustrate the storm water features at the city parks and the Landmark (\$1,000/yr)	X		\$10,000										
Distribute storm water brochures at City-sponsored public meetings and in City buildings (\$1,000/yr)	X		\$10,000										
Promote the storm water management program through chamber of commerce events (\$1,000/yr)	X		\$10,000										
Use community groups for stenciling storm water drains (\$1,000/yr)	X		\$10,000										
Total													
School Educational Programs (\$30,000 annually)													
Support Board of Education for Storm Water Program (\$10,000/yr funding)	X		\$100,000										
Develop classroom workbooks													
Provide videos on storm water management issues													
Provide information on current events to be discussed in the classroom													
Implement best management practices in the school yards													
Develop good housekeeping practices for schools													
Develop outdoor classrooms in nearby parks													
Demonstration Projects (\$20,000/yr funding)	X		\$200,000										
Total													
Grand Total													
				5 yr NPDES Phase II Permit Cycle				5 yr NPDES Phase II Permit Cycle					
				5 yr NPDES Phase II Permit Cycle				5 yr NPDES Phase II Permit Cycle					

Woolpert, Inc.

July, 2008

Master Plan: First Three Years
City of Trotwood, OH

Recommendations	Preliminary Cost	Start Date	End Date	Next Steps	2008	2009	2010	2011
Storm Water Maintenance Problems								
7849 Post Town Road	\$2,000	July 1, 2008	June 30, 2009	PWD to monitor the situation after heavy rain events to determine the extent of the problem.				
4900 block of Goodyear Drive	\$20,000	July 1, 2008	December 31, 2008	PWD to correct problem.				
21 East Sherry Road	\$5,000	July 1, 2008	September 30, 2008	PWD to address sewer backup.				
Wetland on Sycamore Woods Blvd.	\$15,000	July 1, 2008	December 31, 2008	PWD to correct problem.				
Storm Water Capital Improvement Projects (\$500,000 annually)								
Spring Run Master Plan (Little Richmond Rd./Snyder Rd.)	\$175,000	October 1, 2008	December 31, 2009	PWD to issue RFQ for project. Selection made by December 1, 2008.				
Cul-de-sac of Talcott Trail (Design & Construction)	\$350,000	October 1, 2008	September 30, 2009	PWD to issue RFQ for project. Selection made by December 1, 2008.				
Meadow Drive (Design & Construction)	\$230,000	October 1, 2008	September 30, 2009	PWD to issue RFQ for project. Selection made by December 1, 2008.				
Trotwood Road @ Stubbs Drive (Design & Construction)	\$300,000	April 1, 2009	September 30, 2010	PWD to issue RFQ for project. Selection made by June 1, 2009.				
Shasta Avenue (Design & Construction)	\$300,000	October 1, 2010	September 30, 2011	PWD to issue RFQ for project. Selection made by December 1, 2010.				
Second Street (Design & Construction)	\$280,000	October 1, 2010	September 30, 2011	PWD to issue RFQ for project. Selection made by December 1, 2010.				
CIP 2011 (Design & Construction)	\$500,000	October 1, 2011	September 30, 2012	PWD to issue RFQ for project. Selection made by December 1, 2011.				
CIP 2012 (Design & Construction)	\$500,000							
CIP 2013 (Design & Construction)	\$500,000							
CIP 2014 (Design & Construction)	\$500,000							
CIP 2015 (Design & Construction)	\$500,000							
CIP 2016 (Design & Construction)	\$500,000							
CIP 2017 (Design & Construction)	\$500,000							
Research existing drainage easements	\$30,000	January 1, 2009	December 31, 2009	PWD to conduct research of existing easements.				
Obtain drainage easements (to be obtained as a part of CIP projects)	\$0	April 1, 2010	June 30, 2010	PWD to obtain necessary easements				
\$5,165,000								
NPDES Storm Water Phase II Program (\$50,000 annually)								
Update the City's existing storm water infrastructure map (Full Inventory)	\$450,000	January 1, 2009	September 30, 2009	PWD to conduct full inventory of storm water drainage system.				
Identify and field locate the storm sewer outfalls (major and minor) within the City	\$0	January 1, 2009	September 30, 2009	To be completed with above task.				
Perform field investigations to detect any illicit discharges (Cost for First Year Only)	\$250,000	July 1, 2009	December 31, 2009	PWD to conduct first year of field investigations. Annual investigations to follow.				
Develop an ordinance to allow for the removal of illicit connections from the storm sewers	\$10,000	October 1, 2009	March 31, 2010	PWD to develop ordinance.				
Develop a plan to address and then eliminate illicit connections (Cost for First Year Only)	\$20,000	October 1, 2009	March 31, 2010	PWD to develop plan to eliminate all illicit connections found in the first year. Annual plans to follow annual investigations, as necessary.				
\$730,000								
Best Management Practices (\$10,000 annually)								
Adopt Standards	\$1,000	October 1, 2008	December 31, 2008	PWD to adopt ODNR Rainwater and Land Development Manual as City BMP manual.				
Implementation of Non-Structural Measures								
Reduction of impervious areas	\$2,000	October 1, 2008	December 31, 2008	PWD to review City-owned facilities for opportunities to reduce impervious surfaces. A plan will be developed for identified surfaces to be eliminated.				
Planting meadows	\$10,000	March 1, 2009	June 30, 2009	PWD to review City-owned facilities for opportunities to plant meadows and reduce the need for mowing. A plan will be developed for identified areas to be planted. Repeated annually from then on.				
Low impact developments (LID) and conservation developments	\$10,000	October 1, 2008	March 31, 2009	PWD to review development regulations for inclusion of LID and conservation developments. Make changes as necessary.				
Stream setbacks	\$10,000	October 1, 2008	March 31, 2009	PWD to review development regulations for inclusion of stream setbacks. Make changes as necessary.				
Implementation of Structural Measures								
Promote the Use of Water Quality BMPs	\$0	Ongoing	Ongoing	PWD to promote on an ongoing basis. This is a development-driven task.				
Re-enforce the importance of the maintenance of erosion and sediment control measures during construction	\$0	Ongoing	Ongoing	PWD to promote on an ongoing basis. This is a development-driven task.				
Encourage the retrofitting of existing storm water facilities	\$0	Ongoing	Ongoing	PWD to promote on an ongoing basis. This is a development-driven task.				
Give water quality BMP credits	\$0	October 1, 2008	March 31, 2009	PWD to review credit policy for inclusion of water quality BMP credits. Make changes as necessary.				
\$33,000								
Storm Water to Recreation (\$50,000 annually)								
Support Park & Recreation Department for Storm Water to Recreation (\$50,000/yr funding)	\$500,000	April 1, 2009	September 30, 2009	PWD to jointly decide with Parks and Recreation Department where initial annual funding will be invested. Develop and implement plan. Repeat annually from then on.				
Wolf Creek Rail Trail								
Trotwood Commerce Park								
Sycamore Woods Lake and Trotwood Community Center								
Madison Park								

Master Plan: First Three Years
City of Trotwood, OH

Recommendations	Preliminary Cost	Start Date	End Date	Next Steps	2008	2009	2010	2011
North Broadway Park								
Olde Town Park								
The Landmark	\$100,000	July 1, 2008	June 30, 2009	PWID to determine how to incorporate storm water facilities into Landmark development. Then develop a plan and implement.				
Lazy River		January 1, 2009	December 31, 2010	PWID to initiate preliminary feasibility study. If project feasible, master planning and economic study to begin. Master plan and economic study to be completed at end of two years.				
Preliminary Feasibility Investigation	\$75,000							
Master Planning & Economic Study	\$250,000							
	\$925,000							
Public Education Programs (\$10,000 annually)								
Have a regular feature in the City's newsletter (\$500/yr)	\$5,000	July 1, 2008	September 30, 2008	PWID to write first article for the City newsletter. Repeated semi-annually from then on.				
Have a storm water page on the City's website	\$5,000	October 1, 2008	December 31, 2008	PWID to implement new storm water page on the City's website.				
Publish storm water articles in the Wolf Creek Stream Team newsletter (\$500/yr)	\$5,000	July 1, 2008	September 30, 2008	PWID to write first article for the Wolf Creek Stream team newsletter. Repeated semi-annually from then on.				
Use kiosks to illustrate the storm water features at the city parks and the Landmark (\$1,000/yr)	\$10,000	April 1, 2009	September 30, 2009	PWID to develop initial kiosks and install in parks and Landmark. This is a Spring/Summer activity annually.				
Distribute storm water brochures at City-sponsored public meetings and in City buildings (\$1,000/yr)	\$10,000	April 1, 2009	September 30, 2009	PWID to distribute initial brochures for public availability. This is a Spring/Summer activity annually.				
Promote the storm water management program through chamber of commerce events (\$1,000/yr)	\$10,000	April 1, 2009	September 30, 2009	PWID to promote storm water management program at a chamber of commerce function. This is a Spring/Summer activity annually.				
Use community groups for stenciling storm water drains (\$1,000/yr)	\$10,000	April 1, 2009	September 30, 2009	PWID to initiate stenciling program. This is a Spring/Summer activity annually.				
	\$55,000							
School Educational Programs (\$30,000 annually)								
Support Board of Education for Storm Water Program (\$10,000/yr funding)	\$100,000	January 1, 2009	June 30, 2009	PWID to jointly decide with Board of Education where initial annual funding will be invested. Develop and implement plan. Repeated annually from then on.				
Develop classroom workbooks								
Provide videos on storm water management issues								
Provide information on current events to be discussed in the classroom								
Implement best management practices in the school yards								
Develop good housekeeping practices for schools								
Develop outdoor classrooms in nearby parks								
Demonstration Projects (\$20,000/yr funding)	\$200,000	July 1, 2009	December 31, 2009	PWID to initiate initial demonstration project. Repeated annually from then on.				
	\$300,000							
	\$7,250,000							

Woolpert, Inc.