Table G-2
Capital Improvement Program
(Combined Watersheds)

	2007	2008	2009	2010	2011	2012	2013	2014
MANAGEMENT PLANS								
Lake Management Plans	$15,000							
Phase II Stream Assessment								
Wetland Management Plan		~~$20,000~~		$20,000				
~~Evaluate Creek 100 Year Elev~~P8 Modeling			$~~20,000~~ 30,000		$20,000			
3rd Generation Plan						$125,000		
CAPITAL PROJECTS								
Shingle Creek Restoration, BBlvd to Candlewood								
New Hope-Wincrest Pond	$290,000							
Maple Grove Pond P51	$1,459,000							
Crystal Lake Water Quality		~~$400,000~~	$1,000,000					
Maple Grove Pond P57		~~$648,000~~			$648,000			
Twin Lake Wetland 639W Impr		$120,000	~~$570,000~~	$570,000				
Crystal Twin Oak Pond		$310,000						
New Hope 45th Ave Pond			~~$550,000~~	$550,000				
Shingle Creek Restoration, CR 10 to I 694				$430,000				
Shingle Creek Restoration, Regent to Noble				~~$750,000~~	$750,000			
Maple Grove Pond P33			~~$574,000~~			$574,000		
Maple Grove Pond P55				~~$855,000~~		$855,000		
Minneapolis 37th Avenue Greenway				$4,000,000				
Meadow Lake Drawdown					$100,000			
Bass Creek Bank Stabilization						$70,000		
Stream Stabilization at Mill Pond				$500,000				
Woods Trail Rain Garden					$180,000			
Oak Creek Outfall to Mississippi River						$20,000		
Champlin Winnetka Pond							$200,000	
Subtotal, Commission Contribution	***$322,500***	***~~$369,500~~ $430,000***	***~~$423,500~~ $100,000***	***~~$508,750~~ $762,500***	***$419,500***	***$379,750***	***$50,000***	
Subtotal, City Contribution	***$1,426,500***	***~~$1,108,500~~ $137,500***	***~~$1,270,500~~ $900,000***	***~~$1,526,250~~$ 5,287,500***	***$1,258,500***	***$1,139,250***	***$150,000***	
Total Capital Projects	***$1,749,000***	***~~$1,478,000~~ $430,000***	***~~$1,694,000~~ $1,000,000***	***~~$2,035,000~~$ 6,050,000***	***$1,678,000***	***$1,519,000***	***$200,000***	

CIP Projects and Funding

Projects proposed for the Interim CIP are described below. It is the current intent of the Commissions to finance these projects using Funding Option 1, the revised Cost Share Policy. However, in the event cities are unable to agree on how to share the City Apportionment, or for some other reason the Commission determines that it is infeasible to go forward using Option 1, then the Commission, as authorized in the Joint Powers Agreement, may go forward using Option 2 or Option 3 as described below.

Option 1 - Cost Share Policy

For capital projects that have been identified in a Commission-adopted or approved TMDL or management plan:

1. The Commission's share should be 25 percent of the cost of the project, to a maximum share of $250,000.
2. The Commission's share should be funded through the ad valorem tax method – spread across all taxpayers within the watershed.
3. The Commission should use a maximum annual levy of $500,000 as a working guideline.
4. The cities' share should be 75 percent of the cost of the project. This would be apportioned to the cities as follows, or in some other manner acceptable to them:
    a. The area directly benefiting from the project should be apportioned 25 percent of the cost of the project. This would be apportioned to cities based on, for example, proportion of lake or stream frontage.
    b. Fifty percent of the cost of the project should be apportioned based on contributing/ benefiting area. The basis of this apportionment would likely be unique to each project.
5. The cities can each decide the funding mechanism that is best suited to them for payment of their share, for example through special assessments, storm drainage utility, general tax levy, or watershed management tax district.

Option 2 - 100 Percent Ad Valorem Tax Levy

Under the authority provided by Minn Stat 103B.251 Section VIII, Subd. 5, the Commissions have the authority to certify for payment by the county all or part of the cost of an approved capital improvement. The JPA provides that if cities are unable to come to a cost sharing agreement, then the Commission may order the project by funding 100 percent of the project cost from the Hennepin County ad valorem tax levy.

Option 3 – 100 percent Apportionment to Cities

Projects may also be 100 percent funded by cities. The JPA provides two alternates: projects may be funded through a negotiated cost share between cities having land in the affected subwatershed. Or, projects may be funded by apportioning the cost of the project across all the cities in the watershed using the same 50% land area / 50% tax capacity formula as the general assessments to cities. The latter may be amended by the Commission if it is clear that one or more of the cities receive a special benefit from the project.

~~2007 Projects~~SHINGLE CREEK CIP PROJECTS

New Hope Wincrest Pond
This project includes expansion of an existing pond located between Winnetka Avenue and Sumter Avenue, north of the Wincrest Apartments into a two-cell pond system. The purpose of the project is to increase both the water quality treatment volume and flood storage volume of the existing pond. Stormwater treatment efficiency will be increased, and periodic overtopping that now causes erosion will be eliminated. The area treated by this pond drains to Upper Twin Lake. The TMDL for that lake requires phosphorus load to be reduced through retrofitting the subwatershed with additional treatment.

Funding Options New Hope Wincrest Pond	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$72,500	$217,500	$290,000
2 – Ad Valorem Tax Levy	$290,000	$0	$290,000
3 – City Apportionment	$0	$290,000	$290,000

Maple Grove Pond P51
Maple Grove plans to construct a series of regional ponds to provide pollutant load reduction, volume and peak rate attenuation, and infiltration to meet Commission standards. This pond would serve 312 acres of new development in the Arbor Lakes area of Maple Grove. The proposed project would upsize the pond to provide treatment beyond the minimum required by Commission standards and would provide an estimated additional 94 pounds of annual phosphorus load reduction as well as reduction of other pollutants. The project cost here is the additional cost to upsize the pond to achieve greater pollutant removal.

Funding Options Maple Grove Pond P51	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$250,000	$1,209,000	$1,459,000
2 – Ad Valorem Tax Levy	$1,459,000	$0	$1,459,000
3 – City Apportionment	$0	$1,459,000	$1,459,000

~~2008 Projects~~

Robbinsdale Crystal Lake Water Quality Improvements
The project involves the construction of infrastructure that would enable the withdrawal of hypolimnetic water from the lake, and its pumping to an upstream point for flow back through a series of vegetated ponds prior to re-entry into the lake. The purpose is to reduce high internal phosphorus loading of the lake by withdrawal of phosphorus-rich hypolimnetic water, resulting in the prevention of excessive algal blooms and improvement in water quality. This project is in the Initial TMDL Management Recommendations for Crystal Lake.

Funding Options Crystal Lake Water Quality Improvements	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$100,000	$300,000	$400,000
2 – Ad Valorem Tax Levy	$400,000	$0	$400,000
3 – City Apportionment	$0	$400,000	$400,000

Maple Grove Pond P57

Maple Grove plans to construct a series of regional ponds to provide pollutant load reduction, volume and peak rate attenuation, and infiltration to meet Commission standards. This pond would serve 93 acres of new development in the Arbor Lakes area of Maple Grove. The proposed project would upsize the pond to provide treatment beyond the minimum required by Commission standards and would provide an estimated additional 14 pounds of annual phosphorus load reduction as well as reduction of other pollutants. The project cost here is the additional cost to upsize the pond to achieve greater pollutant removal.

Funding Options Maple Grove Pond P57	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$162,000	$486,000	$648,000
2 – Ad Valorem Tax Levy	$648,000	$0	$648,000
3 – City Apportionment	$0	$648,000	$648,000

Twin Lake Wetland 639W Improvements

The Twin Lake Management Plan and TMDL both identified restoration of this wetland as key to reducing subwatershed phosphorus loading to Upper Twin Lake. The wetland is located north of Upper Twin Lake in Brooklyn Center and Crystal; a majority of the wetland is located on property owned by the Metropolitan Airports Commission and is commonly referred to as the MAC Nature Preserve. Three alternatives for achieving this reduction have been identified: 1) partial diversion of flow around the wetland; 2) dechannelization and increased storage within the wetland; and 3) an alum ferric chloride treatment system. This initial project phase will be the completion of a feasibility study to determine the most appropriate and cost effective option for achieving the desired phosphorus load reduction and the preparation of plans and specifications for the selected option.

Funding Options Twin Lake Wetland 639W	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$30,000	$90,000	$120,000
2 – Ad Valorem Tax Levy	$120,000	$0	$120,000
3 – City Apportionment	$0	$120,000	$120,000

Crystal Twin Oak Pond.

There is little stormwater treatment in the watershed draining to Upper Twin Lake. The Twin Lake Management Plan and TMDL both identified the need to retrofit the watershed with treatment BMPs when opportunities arise. Redevelopment adjacent to Twin Oak Park in Crystal provides an opportunity to construct a new regional stormwater pond to treat stormwater conveyed by the trunk storm sewer in Bass Lake Road. Low flows conveying the first flush of pollutants would be diverted into this new pond, providing a significant amount of phosphorus and sediment removal prior to discharge into Upper Twin Lake.

Funding Options Crystal Twin Oak Pond	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$77,500	$232,500	$310,000
2 – Ad Valorem Tax Levy	$310,000	$0	$310,000
3 – City Apportionment	$0	$310,000	$310,000

~~2009 Projects~~

Twin Lake Wetland 639W Improvements

This project is the construction of the most feasible and cost-effective restoration option identified in the feasibility study conducted in 2008-9.

Funding Options Twin Lake Wetland 639W	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$142,500	$427,500	$570,000
2 – Ad Valorem Tax Levy	$570,000	$0	$570,000
3 – City Apportionment	$0	$570,000	$570,000

New Hope 45th Avenue Pond

The project would convert an existing dry pond on 45th Avenue between Winnetka and Xylon Avenues to a wet pond to provide phosphorus removal from an 80 acre subwatershed. The purpose of the project is to reduce pollutant loading to downstream water bodies. This subwatershed drains to the Crystal Memory Lane Pond system, which ultimately discharges to Lower Twin Lake. Increasing the size of the pond will also provide additional flood storage for the subwatershed. The TMDL for the Twin Lake system requires phosphorus loads to be reduced through retrofitting the subwatershed with additional treatment.

Funding Options New Hope 45th Ave Pond	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$137,500	$412,500	$550,000
2 – Ad Valorem Tax Levy	$550,000	$0	$550,000
3 – City Apportionment	$0	$550,000	$550,000

Maple Grove Pond P33

Maple Grove plans to construct a series of regional ponds to provide pollutant load reduction, volume and peak rate attenuation, and infiltration to meet Commission standards. This pond would serve 123 acres of new development in the Arbor Lakes area of Maple Grove. The proposed project would upsize the pond to provide treatment beyond the minimum required by Commission standards and would provide an estimated additional 17 pounds of annual phosphorus load reduction as well as reduction of other pollutants. The project cost here is the additional cost to upsize the pond to achieve greater pollutant removal.

Funding Options Maple Grove Pond P33	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$143,500	$430,500	$574,000
2 – Ad Valorem Tax Levy	$574,000	$0	$574,000
3 – City Apportionment	$0	$574,000	$574,000

~~2010 Projects~~

Shingle Creek Restoration, CR 10 to I694

The project would construct stream corridor improvements on Shingle Creek as recommended by the Shingle Creek Corridor Study and as anticipated will be recommended improvements in the Shingle Creek dissolved oxygen and impaired biotic TMDLs to be completed in 2009. The reach to be improved is from County Road 10 to Interstate Highway 94/694. The following improvements are proposed: streambank stabilization in eroding areas; removal of select trees to reduce canopy density; establishing or enhancing buffer vegetation; and installation of rock vanes and varied substrates.

Funding Options Shingle Creek Restoration, CR 10 to I694	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$107,500	$322,500	$430,000
2 – Ad Valorem Tax Levy	$430,000	$0	$430,000
3 – City Apportionment	$0	$430,000	$430,000

Shingle Creek Restoration, Regent to Noble Avenues

The project would construct stream corridor improvements on Shingle Creek as recommended by the Shingle Creek Corridor Study and as anticipated will be recommended improvements in the Shingle Creek dissolved oxygen and impaired biotic TMDLs to be completed in 2009. The reach to be improved is from Regent Avenue to Noble Avenue North. The following improvements are proposed: streambank stabilization in eroding areas; removal of select trees to reduce canopy density; establishing or enhancing buffer vegetation; and installation of rock vanes and varied substrates.

Funding Options Shingle Creek Restoration, CR 10 to I694	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$187,500	$562,500	$750,000
2 – Ad Valorem Tax Levy	$750,000	$0	$750,000
3 – City Apportionment	$0	$750,000	$750,000

Maple Grove Pond P55

Maple Grove plans to construct a series of regional ponds to provide pollutant load reduction, volume and peak rate attenuation, and infiltration to meet Commission standards. This pond would serve 96 acres of new development in the Arbor Lakes area of Maple Grove. The proposed project would upsize the pond to provide treatment beyond the minimum required by Commission standards and would provide an estimated additional 25 pounds of annual phosphorus load reduction as well as reduction of other pollutants. The project cost here is the additional cost to upsize the pond to achieve greater pollutant removal.

Funding Options Maple Grove Pond P55	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$213,625	$747,375	$855,000
2 – Ad Valorem Tax Levy	$855,000	$0	$855,000
3 – City Apportionment	$0	$855,000	$855,000

Minneapolis 37th Avenue Greenway

This project is within Minneapolis' Flood Area 5, and located on 37th Avenue North between Penn and Knox Avenues North. The project will abandon the roadway along 37th Avenue North and replace it with a bike/pedestrian trail and greenway, underground and surface stormwater detention,

filtration rain gardens, and structural stormwater treatment. This area discharges to Crystal Lake, and will reduce the volume of runoff, reduce pollutant loading, and promote groundwater recharge.

Funding Options Minneapolis 37th Avenue Greenway	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$250,000	$3,750,000	$4,000,000
2 – Ad Valorem Tax Levy	$4,000,000	$0	$4,000,000
3 – City Apportionment	$0	$4,000,000	$4,000,000

Meadow Lake Drawdown

The Meadow Lake TMDL requires an 83 percent reduction in internal phosphorus load, and identifies a draw down as a means to reduce that internal load. The proposed drawdown will expose and consolidate the lake sediments and provide an opportunity for the native seed bank to reestablish a more beneficial aquatic vegetation community. A partial drawdown was completed in 2006 as part of an outfall dredging project. Lake residents indicate that the year following that partial drawdown aquatic vegetation was noticeably improved.

Funding Options Meadow Lake Drawdown	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$25,000	$75,000	$100,000
2 – Ad Valorem Tax Levy	$100,000		$100,000
3 – City Apportionment		$100,000	$100,000

Bass Creek Bank Stabilization

Bass Creek in New Hope is experiencing stream bank instability and bank and channel erosion. This project is to stabilize 800 feet of streambank using bioengineering techniques, to reestablish about 1,100 feet of native buffer, and to armor three erosion-prone areas. Bass Creek is designated an Impaired Water for Biotic Integrity. The project would incorporate root wads and other habitat improvements to address that impairment.

Funding Options Bass Creek Bank Stabilization	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$17,500	$52,500	$70,000
2 – Ad Valorem Tax Levy	$70,000		$70,000
3 – City Apportionment		$70,000	$70,000

WEST MISSISSIPPI CIP PROJECTS

Stream Stabilization at the Mill Pond Dam

Portions of the West Mississippi watershed discharge to Elm Creek upstream of the Mill Pond dam. This improvement includes the restoration work along the stream edge at the dam out fall will require riprap to stabilize the stream bank from toe of bank to a point 5-8 feet above the normal flow. Native vegetation will be established on the slopes above the riprap section. Additional riprap will be required for the plunge pool including the area under the concrete spillway; the slope along the dam wing walls is severely eroded and will require slope fill and riprap to stabilization to accommodate emergency overflows. The native planting will include willows and other native trees.

Funding Options Stream Stabilization at Mill Pond	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$125,000	$375,000	$500,000
2 – Ad Valorem Tax Levy	$500,000		$500,000
3 – City Apportionment		$500,000	$500,000

Woods Trail Rain Gardens

Champlin proposes to construct a series of rain-gardens and lineal wetlands along the woods trail north of 109th Avenue and east of Elm Creek Parkway to improve water quality and provide a visual experience to those using the park trails. This project will include restoration of two wetlands.

Funding Options Woods Trail Rain Gardens	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$45,000	$135,000	$180,000
2 – Ad Valorem Tax Levy	$180,000		$180,000
3 – City Apportionment		$180,000	$180,000

Oak Creek Outfall to Mississippi River

The outfall at the river has periodic erosion problems. The flow coming from the Oak Creek has diminished since the early 1991 with the TH #169 improvements and up-stream flood control measures. This project would improve the outfall in anticipation of the City upgrading the lift station for the 9-T storm district.

Funding Options Oak Creek Outfall	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$5,000	$15,000	$20,000
2 – Ad Valorem Tax Levy	$20,000		$20,000
3 – City Apportionment		$20,000	$20,000

Winnetka Avenue NURP/ Infiltration Pond

This improvement project includes the construction of a detention basin to provide storm water treatment, infiltration and flood protection for the area along Winnetka Avenue from 117th Avenue to 120th Avenue in Champlin. The pond will be connected to the city 4-T trunk storm sewer. Winnetka Avenue is not scheduled for improvement in the next 10 years. The storm water in this area is not currently treated and will not require treatment until Winnetka Avenue is constructed.

Funding Options Champlin Winnetka Pond	Ad Valorem Tax Levy (Commission Share)	City Apportionment (Cities' Share)	Total Estimated Project Cost
1 - Revised Cost Share Policy	$50,000	$150,000	$200,000
2 – Ad Valorem Tax Levy	$200,000		$200,000
3 – City Apportionment		$200,000	$200,000

WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION
STATE OF MINNESOTA

RESOLUTION NO. 2010-01

ADOPTING A MAJOR PLAN AMENDMENT TO THE SECOND GENERATION PLAN REVISING THE CAPITAL IMPROVEMENTS PROGRAM

WHEREAS, on May 13, 2004, the Commission and the Shingle Creek Watershed Management Commission jointly adopted the Shingle Creek and West Mississippi Second Generation Watershed Management Plan (the "Plan"), subsequently revised by a Major Plan Amendment adopted May 10, 2007; and

WHEREAS, the Plan includes a Capital Improvement Program ("CIP"); and

WHEREAS, the Commission has proposed a Major Plan Amendment that would add seven new projects to the CIP; and

WHEREAS, the proposed Major Plan Amendment has been reviewed in accordance with the requirements of Minnesota Statutes, Section 103B.231; and

WHEREAS, the Minnesota Board of Water and Soil Resources on August 26, 2010 did approve said proposed Major Plan Amendment; and

WHEREAS, the Commission has determined that it would be reasonable and appropriate and in the public interest to adopt the Major Plan Amendment.

NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of the West Mississippi Watershed Management Commission that:

1. The Major Plan Amendment is approved and adopted.

2. Commission staff is directed to notify appropriate parties of the Amendment to the Plan.

Adopted by the Board of Commissioners of the West Mississippi Watershed Management Commission this ninth day of September, 2010.

_____
Tina Carstens, Chair

ATTEST:

_____
Judie A. Anderson, Recording Secretary (NO SEAL)

ISD 279
OSSEO AREA SCHOOLS
UNITING COMMUNITIES OF EXCELLENCE

Fair Oaks Elementary School

FACSIMILE COVER LETTER

DATE: 9/1/10 **TIME:** 5:10 p.m.

TRANSMITTED TO:

JASS **FAX #:** 763-553-9326

TRANSMITTED FROM:

Fair Oaks Elementary
5600 65th Ave. No.
Brooklyn Park, MN 55429

FAX #: (763) 549-2350

TOTAL PAGES (INCLUDING THIS PAGE): 4

IF ALL PAGES ARE NOT RECEIVED, PLEASE CALL Linda **AT (763) 533-2246. THANK YOU.**

MESSAGE: Thank you for considering this application for a Water Quality Education Grant. I will also send a Hard copy in the mail.

Ph: (763) 533-2246
Fx: (763) 549-2350
5600 65th Ave. N.
Brooklyn Park, MN 55429
district279.org

Shingle Creek/West Mississippi Watershed Management Commissions
Water Quality Education Grants

Please print or type

Contact Name: Michelle VandenPlas
Organization: Fair Oaks Elementary
Mailing Address: 5600 - 65th Ave. N. Brooklyn Park, MN 55429
Authorized Signature: Phillip C. Sadler
Title: Principal
Phone: 763-533-2246
Phone: 763-533-2246
Email: vandenplasm@district279.org
Email:
Amount Requested: $472.00
Date: September 1, 2010

Project Title: Watersheds for All: Civic Responsibility through Watersheds

Please describe your proposal, specifying the activity or activities to be supported by the grant funds, and detailing proposed expenses. Please be sure to address the following questions, using no more than two pages. You may attach other supporting documentation, such as photos (will not be returned).

1. Describe your proposal, and the activities that will be conducted as a result of the grant.
2. How does the proposal improve knowledge about the Shingle Creek or West Mississippi watersheds, water quality, or water resources?
3. What resources, new or existing, are you planning to use?
4. What is your timeline?
5. Who will be involved in implementing this proposal?
6. Who will be impacted by this proposal?
7. How will you measure your success?
8. How do you plan to share your results?

Please see attached for answers to questions #1-8.

Submit Completed Application and Supporting Materials To:

JASS
3235 Fernbrook Lane
Plymouth, MN 55447
763.553.1144 (phone) 763.553.9326 (fax)
Judie@jass.biz

1. **Describe your proposal, and the activities that will be conducted as a result of the grant.**

   The purpose of this proposal is help third grade students at Fair Oaks Elementary form a meaningful connection with their local watershed. This will happen through implementation of a unit on watersheds. The activities that will take place to support this unit will include observation of local ponds/waterways and related inquiry-based investigations, a field trip to Eastman Nature Center in Elm Creek Park for pond exploration, interactive media lessons on watersheds using the *Waters to the Sea* curriculum (from Hamline University's Center for Global Environmental Education), and storm drain stenciling.

2. **How does the proposal improve knowledge about the Shingle Creek or West Mississippi watersheds, water quality, or water resources?**

   Fair Oaks is located within the Shingle Creek Watershed. The observation of local ponds/waterways will help students to learn about their local watershed, including water quality. Their ability to investigate local water resources in the Shingle Creek Watershed will be greatly enhanced after learning how to examine the diversity of life during the pond exploration field trip at Eastman Nature Center. Students will use their new knowledge about watersheds to become civically engaged as they explain watershed issues to their families and advocate for better water quality through storm drain stenciling.

3. **What resources, new or existing, are you planning to use?**

   Many tools will be used for students to observe and investigate local ponds/waterways. These include: magnifying glasses, nets, buckets, ice cube trays, test strips, tape measurers, rulers, and string, among others. Additionally stencils and paints will be needed for the service learning component of this project.

4. **What is your timeline?**

   The field trip to Eastman Nature Center will take place on Thursday, October 14th, 2010. The mini-unit on watersheds will begin one day before the field trip and continue for 5 school days following the field trip.

5. **Who will be involved in implementing this proposal?**

   All of the third-grade students at Fair Oaks Elementary (current enrollment is at 71 students), the three third-grade classroom teachers at Fair Oaks (Janene Smith, Vicky Thompson, and Kriscel Miller), and the third-grade ELL Teacher (Michelle Vanden Plas).

6. **Who will be impacted by this proposal?**

   All of the participants listed in the above question as well as the students' families and neighbors surrounding the school (through storm drain stenciling).

7. **How will you measure your success?**

Success will be measured through: 1)observation of student participation throughout the watersheds unit; 2) evaluation of student work, specifically their small group inquiry-related investigations; and 3) anecdotal comments from students regarding their learning and their family members' reactions to their learning.

8. **How do you plan to share your results?**

The results of this unit will be shared through the Fair Oaks' newsletter and the District 279 online newsletter (sent to all staff of Osseo Area Schools ISD 279).

BUDGET

Field trip fee	($280 - $168 subsidy from Three Rivers Park District)	$112
Field trip transportation	($360 for 2 buses)	$360
Materials Fee	(Paid for through Hamline mini-grant)	
TOTAL		**$472**

SHINGLE CREEK / WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION

MONTHLY COMMUNICATION LOG
8-1-10 through 8-31-10

Date	From	To	For		Description
			SC	WM	
8/2/10	Barb Peichel MPCA	Diane Spector Wenck Associates	X		Email forwarding comments from Mn/DOT, DNR on Stressor ID
8/2/10	Barb Peichel MPCA	Rich Brasch Wenck Associates	X		Email forwarding comments on the Green Roof 319 Grant workplan
8/9/10	Robert Scarlett Midwest Floating Island	Joe Bischoff Wenck Associates	X		Email re: Eagle Lake Water Quality and floating treatment wetlands
8/9/10	Carla Swanson-Cullen BWSR	Ed Matthiesen Wenck Associates	X		Email re: Clean Water Fund Grant
8/9/10	Ed Matthiesen Wenck Associates	Christopher Elvrum Met Council	X	X	Email re: Chris as guest speaker at Sept. 9 SCWC and WMC meeting
8/10/10	Tom Mathisen City of Crystal	Ed Matthiesen Wenck Associates	X		Email asking Ed about rain garden vs. pond
8/10/10	Ed Matthiesen Wenck Associates	Wes Boll, Wenck Associates Cc: Kevin Larson		X	Email re: phone call from Dick Keppel about cease and desist order for property at 105th and Sumter, Brooklyn Park
8/10/10	Joel Settles Hennepin County	Diane Spector Wenck Associates	X		Phone call inquiring about status of Robbinsdale's Crystal Lake project; update on status of county levy
8/13/10	Dan Allmaras Hennepin County	West Mississippi WMO		X	Notice of preconstruction meeting on CSAH 14 Douglas Court to CSAH 12
8/13/10	Beth Elliot City of Minneapolis	Shingle Creek, West Mississippi WMOs	X	X	Request for comments on Minneapolis proposed Comprehensive Plan revision for the North Loop Neighborhood. Responded that the Commissions have no comments.
8/12/10	Todd Schultz TSP	Diane Spector Wenck Associates	X		Email forwarding demolition plans for North Education Center for review of erosion control plan.
8/17/10	Ed Matthiesen Wenck Associates	Janet Moore Judie Anderson	X	X	Emailed link to Star Tribune article about Shakopee bus station
8-17-10	Kate Drewry DNR Area Hydrologist	Diane Spector Wenck Associates		X	DNR Water Appropriation Permit Application #2011- XXXX, Natureview Vista Association. Responded that had no comments.
8/18/10	Craig Runnakko Brooklyn Park	Ed Matthiesen Wenck Associates		X	Email answering Jason Ives' question about who is responsible for an installation he photographed "east of the foot bridge down in the creek in the EA."
8-20-10	Barb Peichel MPCA	Diane Spector Wenck Associates	x		Email listing contact people who will take over her projects while she is on maternity leave.
8-20-10	Barb Peichel MPCA	SCWMC	x		Draft contract amendment extending completion date for the biotic/DO TMDL

Date	From	To	For		Description
			SC	WM	
8/23/10	Jeff Berg Mn DNR	Ed Matthiesen Wenck Associates (and other MRCCA listserv members)		X	Email regarding Mississippi River Corridor Critical Area (MRCCA) rulemaking.
8-23-10	Bill Allard Sunde Engineering	Diane Spector Wenck Associates	X		Phone call inquiring whether a project review would be required for proposed project.
8-23-10	Sue Webber Sun Post	Diane Spector Wenck Associates	X		Phone call re status of above-the-cap assessment resolutions. Referred to Judie.
8-23-10	Barb Peichel MPCA	Diane Spector Wenck Associates	x		Email re the Lake Magda TMDL, which is still in the queue at the EPA for approval.
8/24/10	Rob Scarlett Midwest Floating Island	Ed Matthiesen Wenck Associates	X		Email regarding floating treatment wetlands on Eagle Lake.
8-24-10	John Bender MFRA	Diane Spector Wenck Associates	X		Phone call re SC2005-14 Lakes of Maple Grove. Another phase of the project is being built. It differs from what was shown on the approved plan, and new impervious will be less. He will send revised site, utility, and grading plans to review to see if this will need a new review or is equivalent to or better than the approved site plan.
8-25-10	Gail Brown KSTP-5 News	Diane Spector Joe Bischoff Wenck Associates	X		Phone discussion providing background on the Robbinsdale Crystal Lake project, how hypolimnetic withdrawal works, where other such projects have been constructed
8/31/10	Al Dye MAC	Ed Matthiesen Wenck Associates	X		Phone call regarding lease agreement