

# Isanti Soil & Water Conservation District

## 2016 Annual Plan

Historically, Minnesota Soil and Water Conservation Districts (SWCD) have been required to prepare annual plans. Beginning in 2013 the MN Board of Water and Soil Resources BWSR replaced the annual plan requirement with their Biennial Budget Request (BBR). SWCDs are currently required to post their annual plan on their website. Therefore, the BBR is posted as an alternative. It is presented below.

It is noteworthy that that each SWCD must publish their State Cost Share policies in their annual plan. The BBR does not have a space for these policies. Therefore, the Isanti SWCD's State Cost Share policies are also presented below.

### Isanti SWCD State Cost Share Program Policies

Priority areas for use of state cost share program funds are:

#### **1. High Priority Water Quality Problems**

“High Priority Water Quality” means areas where sediment, nutrients, chemicals, or other pollutants discharge to protected waters or to a sinkhole or ground water so as to impair their quality or usefulness. The Isanti SWCD most strongly favors:

- a. Projects identified in completed or underway subwatershed analyses (aka stormwater retrofit analyses),
- b. Projects identified in completed or underway TMDLs,
- c. Projects beneficial to a lake, stream, or river failing to meet state water quality standards or with a declining water quality trend.

#### **2. High Priority Erosion Problems**

“High priority erosion problems: means areas where erosion from wind or water is one ton per acre per year or any area within 300 feet of a water course or within 1,000 feet of a water basin or wetland. The water basin, wetland, or watercourse must be classified by the Department of natural Resources as protected water.

#### **3. High Priority Sedimentation Problems**

“High priority sedimentation problems” means areas within 300 feet of a water course or 100 feet of a water basin or wetland where the water erosion rate exceeds 3 tons per acre per year or areas where the District can show that sediment delivery occurs from a watershed or direct conveyance structure such as a storm sewer or paved outlet channel discharging to these waters. The water basin, wetland, or watercourse must be classified by the Department of natural Resources as protected water.

#### **4. High Priority Feedlot Problems**

“High Priority Feedlots” means feedlots ranking highly with current NRCS farm evaluation methods/software and which are discharging pollutants to DNR protected waters or to a sinkhole or shallow soils overlaying fractured or cavernous bedrock or within 100 feet of a water well.

The following is a documentation of staff skills, training, credentials along with description of other means the District will use to insure projects meet the requirements of local guidelines and are installed and maintained according to standards and specifications. This document should be reviewed and updated annually.

**Ecological Practices:** The SWCD board assigned the District Manager, Tiffany Determan, Technical Approval Authority to design, install and sign off on ecological practices relating to stabilizing shoreland on June 21<sup>st</sup>, 2016 at the regular board meeting. Should TAA be required for any other practice, the staff will seek partnership with a surrounding district or provider with the appropriate experience and credentials.

**Engineering Practices:** For all practices requiring engineering, the SWCD will oversee the plans to make sure they meet local requirements and the engineer will sign off on the completed project.

Below is a listing of the credentials of the District Manger, Tiffany Determan, staff which qualify her to make recommendations, design and install and sign off on Ecological Practices as described above:

**District Manger, Tiffany Determan:**

**Shoreline (TAA approved June 21<sup>st</sup>, 2016)**

- Approved by BWSR to sign off on the TAA for the Native Buffer Cost-Share program funds for Benton SWCD. During this time I designed and assisted with installation of 9 shoreland buffers.
- Assisted with design for three shoreline buffers in Sherburne County, have made recommendations for over 20 shoreline buffers during site visits.
- Annual attendance at Shorelands Users Group: a gathering of professionals to share information and new techniques and lessons learned regarding shoreland and riparian buffers.

**Stormwater**

- Rain Garden Workshop, 2008. U of M Extension Service: details about design, construction, maintaining residential rain gardens.
- Have worked with engineer during the design and installation process of three raingardens, and the development of one alternative stormwater reduction project.
- Extensive involvement in the Metro subwatershed assessment process. This involves training and experience in visually inspecting the land and making educated recommendations for BMP placement. This work makes it necessary to stay current on new and innovative Stormwater BMPs.
- Watershed Specialist Training, University of MN, 2013. Included a special training on BMP planning and evaluation.
- On a regular basis: Lead and make recommendations on stormwater site assessments for concerned landowners.

**River and Stream:**

- The Fundamentals of Stream Restoration: Applied Geomorphology & Ecology Workshop, 2011.
- Diagnosing Streams: Symptoms, Underlying Causes, and Remedies, 2013.
- Have worked with engineer during the design and installation process of one streambank stabilization practice

Pasture and Manure Management:

- Assist Sherburne district Technician with six pasture assessments in 2014. During the assessments I am gaining skills to make fertilizer, seeding and grazing recommendations. I am also learning manure management techniques.

**Isanti SWCD 2016-17 Biennial Budget Request**

**FY2016-17 Biennial Budget Request  
Worksheet**

Organization Identification	
Organization Name	Isanti SWCD
Organization Type	SWCD
Staff Contact	Jamie Schurbon
Email Address	jamie.schurbon@anokaswcd.org
Date	April 16, 2014

NRBG Program Grant Summary		
Grant Source	Estimated Amount Available	Estimated Amount Budgeted
NRBG Feedlot		
NRBG Shoreland		
NRBG SSTS		
NRBG Water plan		
NRBG WCA	\$10,000	\$10,000

SWCD Program Grant Summary		
Grant Source	Estimated Amount Available	Estimated Amount Budgeted
Conservation Delivery	\$40,344	\$40,344
State Cost-Share	\$12,100	\$12,100
RIM Easement Delivery	\$632	\$632

TSA Program Grant Summary		
Grant Source	Estimated Amount Available	Estimated Amount Budgeted
FY 16-17 NPEAP		\$10,000

Row #	Water Resource Information					Projects and Activities			Outputs		Plan Connection		Budget				OPTIONAL INFO					
	Name of Primary Water Resource of Concern (if applicable)	Water Resource Category	Conventional Water Quality Impairments (Y/N)	Water Quality Trend	Watershed: 8-Digit HUC Name	Activity Categories	Capital Improvement Project?	Narrative Activity Description: including water quality concerns/risk factors/ opportunities	Estimated Number of BMPs	Estimated Number of FTEs	Describe how these activities could be accomplished in the FY 2016-17 biennium	Plan Type	Plan Priority Connection (Identify Action Item or Objective from eligible plan)	Source of State Contribution	State Fund Contribution for FY 16-17 Biennium (estimated)	Leveraged Funds (estimated)	Projects & Activities Budget (estimated total)	Potential Additional Project and Activity Funds Needed to Fully Address Plan Implementation during FY 16-17				
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)					
1	Not Applicable	Both Surface & Groundwater	Not Applicable	Not Applicable	Organization Wide	Natural Resources Block Grant	No	Help citizens interpret state wetland rules and statutes for project. Participate in technical evaluation panel (TEP). Prepared WCA replacement plans. Attend training.			Isanti County is the LGU for WCA implementation. Isanti SWCD provides the required tech assistance and receives the minimum required WCA funds transfer from the county.	County	Isanti Co Local Water Mgmt Plan references WCA on in Table IV - Implementation Plan. Also Priority issue II - preserve and improve...wetlands.	NRBG WCA	\$10,000		\$10,000					
2	Not Applicable	Both Surface & Groundwater	Not Applicable	Not Applicable	Organization Wide	Planning & Assessment-	No	Water monitoring, BMP planning, public education, rules development, assisting civic groups such as lake associations and related.			SWCD staff participate in the Isanti County Water Planning task force.	County	Isanti Co Local Water Mgmt Plan Appendix 5 describes task force members and function.	Conservation Delivery				\$3,000				
3	Not Applicable	Both Surface & Groundwater	Not Applicable	Not Applicable	Organization Wide	Cost Share Program	No	Technical assistance to landowners on natural resource issues and implementing solutions			SWCD staff field residents, municipalities, developers and civic group requests for assistance, with focus on priority areas and issues. Present State Cost Share funding levels provide for technical assistance and project planning, but are insufficient to provide cost share that incentivizes BMP installation.	County	Isanti Co Local Water Mgmt Plan Priority Issue I, Objectives A & B which describe need for landowner participation in conservation efforts.	State Cost-Share	\$12,100	\$3,025	\$15,125	\$30,000				
4	Not Applicable	Both Surface & Groundwater	Not Applicable	Not Applicable	Organization Wide	Conservation Delivery	No	Conservation delivery funds used for SWCD operating expenses including board meetings, rent, utilities, salaries for district administrative tasks and equipment.			Basic SWCD operations and admin.	County	Isanti Co Local Water Mgmt Plan Priority Issue II, objective A, C and many others describe SWCD roles in water quality efforts.	Conservation Delivery	\$40,344		\$40,344	\$60,179				
5	Not Applicable	Both Surface & Groundwater	Not Applicable	Not Applicable	Organization Wide	Conservation Easements--	No	Easement delivery funds are used to promote new easements, particularly RIM, and inspect existing easements.			Promote new easements and inspect existing easements.	County	Isanti Co Local Water Mgmt Plan, Implementation Objective A, action 3 - pursue easements.	Easement Delivery	\$632		\$632					
6	Rum River	Surface Water	Yes	Not Enough Data	Rum River	Streambank or Shoreland Protection--	No	As identified in the Rum River WRAP (not yet complete), restore habitat and correct erosion in the riparian corridor.	4.0		The Isanti SWCD will lead installation efforts for riparian corridor BMPs identified in the Rum River WRAP. There may be a need to further identify areas of actively eroding stream or river bank, and habitat restoration opportunities. Design and install.	County	Isanti Co Local Water Mgmt Plan, Implementation schedule, Priority 2, action 5 - support existing Rum River scenic district. Action 6 - Lake/river riparian and wetland...techniques for reducing shoreline erosion.	BWSR Clean Water Fund	\$200,000	\$50,000	\$250,000					
7	Rum River	Surface Water	Yes	Not Enough Data	Rum River	Urban Stormwater Practices-Distributed--	Yes	Stormwater Retrofits Analyses are being completed for the Cities of Isanti and Cambridge, the Skogman-Fannie Chain of Lakes, and Green Lake. These studies identify stormwater retrofits for reducing TP, TSS, and volume to prioritize waterbodies and rank these projects by cost effectiveness. BMPs identified will be pursued in order of cost effectiveness.	10.0		The Isanti SWCD will lead installation efforts for stormwater BMPs identified in Stormwater Retrofit Analysis studies.	County	Isanti Co Local Water Mgmt Plan, Priority 1, Objective B - Improve stormwater runoff quality.	BWSR Clean Water Fund	\$200,000	\$50,000	\$250,000					
8	Rum River	Surface Water	Yes	Not Enough Data	Rum River	Non Structural Management Practices+	No	As identified in the Rum River WRAP (not yet complete), address practices which contribute to water quality impairments. Likewise, actions aimed at protecting water quality will be pursued.			The Isanti SWCD will lead installation efforts for BMPs identified in the Rum River WRAP.	County	Isanti Co Local Water Mgmt Plan, Implementation schedule, Objective A - land use practices that reduce negative impacts.	BWSR Clean Water Fund	\$200,000	\$50,000	\$250,000					
9	Rum River and Sunrise River	Surface Water	Yes	Not Enough Data	Rum River	Technical Service Area (TSA)	No	Identify BMPs to address priority water resource concerns and prioritize them by cost effectiveness. This effort is a continuation of the successful stormwater retrofit study effort by metro SWCDs		0.20	TSA 4 NPEAP funding has been used in recent years to successfully complete stormwater retrofit study effort by metro SWCDs. We anticipate this effort will continue and result in installed BMPs.	County	Isanti Co Local Water Mgmt Plan, Priority 1, Objective B - Improve stormwater runoff quality.	BWSR Clean Water Fund	\$24,000	\$6,000	\$30,000					
10	Groundwater	Ground Water	Not Applicable	Not Applicable	Organization Wide	Technical Service Area (TSA)	No	Groundwater depletion and related impacts to surface waters are a concern. A groundwater use audit will help find ways to reduce groundwater use.		0.20	TSA 4 NPEAP funding is anticipated to support a groundwater audit educational program.	County	Isanti Co Local Water Mgmt Plan, Objective A, Action 6 - promote water conservation.	BWSR Clean Water Fund	\$24,000	\$6,000	\$30,000					
11	Typo Lake, Sunrise River	Surface Water	Yes	Down	St. Croix River-Lower	Wetland Restoration & Creation--	No	Typo Lake and downstream waterbodies are highly eutrophic. The Martin and Typo Lakes TMDL has identified wetland restoration by ditch blocks in the county ditch 20 area as an opportunity for phosphorus reduction. The presence of state lands makes the likelihood of success high.	1.0		Clean Water Fund and Outdoor Heritage funds are both good candidates for wetland restoration that improves water quality and enhances wildlife habitat. The Sunrise River WMO is a likely matching \$ source.	County	Isanti Co Local Water Mgmt Plan, Objective B includes county involvement in Typo Lake TMDL.	BWSR Clean Water Fund	\$175,000	\$43,750	\$218,750					
12	Rum River and Sunrise River	Both Surface & Groundwater	Not Applicable	Not Applicable	Rum River	Technical Service Area (TSA)	No	Engineering assistance for BMP designs and installation.	4.0	0.05	NPEAP funding through TSA4 are used for BMP engineering assistance.	County	Isanti Co Local Water Mgmt Plan, Priority 1, Objective B - Improve stormwater runoff quality.	NPEAP	\$10,000	\$2,500	\$12,500					
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									<b>Total FTEs</b>	<b>0.6</b>												
															<b>Total Requested Biennial State Contribution (estimated)</b>	<b>\$896,076</b>	<b>Total Leveraged Funds (estimated)</b>	<b>\$211,275</b>	<b>Total Resource Project and Activities Budget (estimated)</b>	<b>\$1,107,351</b>	<b>Sum of Additional Funds Needed to Fully Implement Plan for 2016-17</b>	<b>\$93,179</b>