BWSR MN Public Drainage Manual Broad Users Outreach Workshop John Kolb, Attorney - Lead Writer Chapter 4

# MPDM Chapter 4: Viewing and Appraising









#### Chapter 4 Subcommittee Members

- Sherry Enzler, MN DNR
- Bob Hiivala, Wright County Auditor/Treasurer
- Chris Christianson, Minnesota Viewers Association
- Mark Dittrich, MN Dept. of Ag
- Ellen Herman, MN Center for Envt'l Advocacy
- Ron Ringquist, Minnesota Viewers Association

#### Chapter 4 Structure

- I. Introduction to Chapter 4
- II. Procedures Requiring Viewing
- III. Appointment of Viewers
- IV. Assessment of Drainage Benefits
  - A. Determining Benefits for Tribal, Government, or Public Lands
  - B. Market-Value Based Benefits
  - C. Charge-Based Benefits
  - D. Protection Benefits
  - E. Benefit Considerations for Certain Projects and Proceedings
- V. Extent of Damages
- VI. Viewers' Report/Property Owners' Report
- VII. Maintaining Benefits Records

#### Chapter 4 Structure

- I. Introduction to Chapter 4
- II. Procedures Requiring Viewing
- III. Appointment of Viewers
- IV. Assessment of Drainage Benefits
  - A. Determining Benefits for Tribal, Government, or Public Lands
  - B. Market-Value Based Benefits
  - C. Charge-Based Benefits
  - D. Protection Benefits
  - E. Benefit Considerations for Certain Projects and Proceedings
- V. Extent of Damages
- VI. Viewers' Report/Property Owners' Report
- VII. Maintaining Benefits Records

#### Players: Viewers

- Four types of drainage **Projects** require viewers
  - Establishment of new drainage systems
  - Improvements of drainage systems
  - Improvements of outlets; and
  - Establishment of laterals
- Six types of drainage Proceedings may also require viewers
  - Redetermination of benefits and damages
  - Repair by resloping ditches, incorporating multistage ditch cross-section, leveling spoil banks, installing erosion controls, or removing trees;
  - Inclusion of property that has not been assessed benefits in a repair;
  - Abandonment of a drainage system
  - Incremental acquisition of grass buffers; and
  - Drainage system transfers
- Viewers also commonly used to recommend an outlet fee under Minn.
   Stat. § 103E.401 when a person petitions for an outlet

#### Players: Viewers & Engineers

- Benefits & damages determinations for new drainage systems are covered extensively in Section IV
- Improvement of drainage system (<u>Section 11, 2</u>)
  - Viewers and the engineer should discuss benefits that could be received if the existing drainage system would be repaired versus benefits created by the drainage system improvement.
  - Benefits associated with the repair are referred to as "separable maintenance" and may be assessed to all benefited lands in the system, while the improvement costs are assessed only to the lands benefited by the improvement.
  - The engineer should assist the viewers in identifying the damages that were awarded when the existing drainage system was established and determine the damages beyond those already awarded that will be caused by the improvement
  - With the engineer's assistance, the viewers determine a value to only the area damaged over and above the damage caused and awarded when the system was originally established.

#### Players: Viewers & Engineers

- Improvement of outlets (Section 11, 3)
  - Remedial proceeding available to landowners downstream of existing or proposed public or private drainage system that is using or will use an existing public drainage system, watercourse, or body of water as its outlet that is causing or will cause overflow
  - Improvement proceedings are limited to one mile downstream; while there is no limit to improvement of outlet proceedings
  - Viewers determine and report benefits to all property benefitting from the improved outlet, including property drained by the existing system or to be drained by a proposed drainage project
  - Key: independent determination of benefits as it is conceivable that lands lying in the upper reaches of the existing or proposed system contributing to the outlet improvement will not benefit from the outlet improvement in the same proportion as they benefit from the establishment of the outletting system

#### Players: Viewers & Engineers

- Laterals (Section II, 4)
  - Key: If the area to be drained by the proposed lateral contains land previously assessed benefits to the main system, then the benefit for the lateral can only reflect the improved drainage associated with the lateral
  - If areas benefited by the lateral were not originally assessed, then an outlet fee needs to be determined in addition to the benefits
  - Recommended to redetermine benefits in conjunction with establishment of the lateral so that the lateral is not paying a disproportionate share of future repair costs to the system

#### Repair Proceedings (Section II)

- Repair by resloping ditches, incorporating multistage ditch crosssections, leveling spoil banks, installing erosion control, or removing trees (Section 11, 6)
  - Engineer defines the area and natural of additional damages outside the area originally damaged or occupied by construction or subsequent improvement of the drainage system
  - Viewers determine damages to the additional area not damaged and awarded compensation in the prior construction
- Inclusion of property not assessed benefits (<u>Section II, 7</u>)
  - If the engineer determines in repair proceedings that property not assessed for benefits has been drained into the system or has otherwise benefited, the engineer shall submit a map with the repair report showing all public and private main ditches and drains that drain into the system, all property affected or otherwise benefited, and the name of the property owners
  - A hearing is held to confirm the engineer's report
  - If confirmed, viewers are appointed to determine benefits

#### Players: Viewers

- Abandonment of Drainage Systems (<u>Section II, 8</u>)
  - If any benefited landowner objects to the petition for abandonment of a drainage system, viewers are appointed to review the abandonment.
  - Viewers examine the property of the objecting landowner(s) to determine if the objecting landowner(s)' property receives a benefit from the system in its current state.
  - Viewers support a report describing their assessment of whether the land investigated benefits.
  - If the drainage authority determines that the drainage system serves any useful purpose

#### Players: Viewers

- Incremental Acquisition of Grass Strips (<u>Section II, 9</u>)
  - Drainage authorities may acquire grass buffer areas or install side inlet controls where necessary to control erosion and sedimentation, improve water quality, or maintain the efficiency of the drainage system.
  - Drainage authority may determine damages on its own, or may appoint viewers to determine damages.
- Drainage System Transfers (Section II, 10)
  - Benefited landowner may object to transfer of drainage system management from county to water management authority.
  - Drainage authority appoints a panel that must contain a viewer; the viewer then determines damages, if any, caused by the transfer.

#### **Appointing Viewers**

- I. Introduction to Chapter 4
- II. Procedures Requiring Viewing
- III. Appointment of Viewers
- IV. Assessment of Drainage Benefits
  - A. Determining Benefits for Tribal, Government, or Public Lands
  - B. Market-Value Based Benefits
  - C. Charge-Based Benefits
  - D. Protection Benefits
  - E. Benefit Considerations for Certain Projects and Proceedings
- V. Extent of Damages
- VI. Viewers' Report/Property Owners' Report
- VII. Maintaining Benefits Records

#### Appointment of Viewers (Section III)

- Procedure (Section III. A) "[T]he drainage authority shall, by order, appoint viewers consisting of three disinterested residents of the state qualified to assess benefits and damages. The drainage authority may establish qualifications for viewers." Minn. Stat. § 103E.305, subd. 1.
- Viewers commonly appointed after the preliminary hearing, when the detailed survey report is ordered.
- Due to the time consuming process, viewers desire to begin duties immediately after appointment.
- Strict reading of the drainage code specifies that viewers' first meeting does not take place until after the engineer's detailed survey report is filed and that viewers do not begin duties until after first meeting (Minn. Stat. § 103E.305, subds. 2 & 3.
- Viewers should consult frequently with the engineer and determine benefits and damages based on the conditions described in the final survey report, not the conditions anticipated.

#### Viewers' Oath

In the Matter of:

the Petition for <Drainage Project> to <Drainage System> VIEWER'S OATH

<Auditor/Secretary's Name>

I, <name of viewer>, having been appointed by the <name of drainage authority>, drainage authority for the <name of project> to <name of drainage system>, a viewer for the determination of benefits and damages for said drainage system <name of project> pursuant to Minn. Stat. ch. 103E, do hereby swear or affirm to support the constitutions of the United States and the State of Minnesota and to discharge faithfully the duties of Viewer, according to law and to the best of my judgment and ability, my appointment commencing on <date>, and expiring upon completion of my duties to the drainage authority.

Signed this \_\_\_\_\_ day of \_\_\_\_\_\_, \_\_\_\_.
<Name of Viewer>
Witnessed this \_\_\_\_\_ day of \_\_\_\_\_\_, <year> by <Name of Auditor/Secretary>,
<Auditor/Secretary> of the <name of drainage authority>, drainage authority for the <name of project> to <name of drainage system>.

- Section III. A
- Minn. Stat. § 103E.305, subd. 3
- The auditor issues an order calling the viewers together for their first meeting before they begin work.
- Template Auditor's Order
- At the first meeting of viewers, the viewers must subscribe to an oath the faithfully perform their duties.
- Template Viewers' Oath

#### Assessment of Drainage Benefits

- I. Introduction to Chapter 4
- II. Procedures Requiring Viewing
- III. Appointment of Viewers
- IV. Assessment of Drainage Benefits
  - A. Determining Benefits for Tribal, Government, or Public Lands
  - B. Market-Value Based Benefits
  - C. Charge-Based Benefits
  - D. Protection Benefits
  - E. Benefit Considerations for Certain Projects and Proceedings
- V. Extent of Damages
- VI. Viewers' Report/Property Owners' Report
- VII. Maintaining Benefits Records

- Federal or Tribal Lands (Section IV, A.1)
  - States and municipalities cannot levy a tax against the federal government or its property without express authorization from Congress
- State Lands or Water Areas Used for Conservation (<u>Section IV, A.2</u>)
  - Requires proper consideration of the value of the area for the purpose it is held or used by the state
  - Minnesota Supreme Court has held that the state may be assessed benefits in an order establishing a system that incorporates a control structure to stabilize the water level of a lake and permit drainage of that portion of the lake when desired by the state for conservation and ecological purposes
- Other State Lands (<u>Section IV, A.3</u>)
  - State owned properties (e.g. state university lands or forfeited lands) must have benefits reported in the same manner as other taxable lands

- Consolidated Conservation (Con-Con) Lands (Section IV, A.4)
  - Aitkin, Beltrami, Koochiching, Lake of the Woods, Mahnomen, Marshall, and Roseau counties - state-owned through tax forfeiture
  - Governed by Minn. Stat., ch. 84A; control & administration by DNR
  - If DNR Commissioner finds the proposed project will benefit Con-Con lands for purposes held, DNR may make necessary investigations, surveys, undertake projects for drainage, and cooperate in construction, repair, or improvement undertaken by a county or other public agency
  - DNR Commissioner holds almost total discretion in deciding how much should be paid for assessment of Con-Con lands
- Municipalities (<u>Section IV, A.5</u>)
  - Benefits to property in a municipality must bear burden of cost of a drainage project in the same proportion as other benefited property
  - Benefits may be charged against individual parcels or as a lump sum to the municipality
  - Benefits to a water management authority awarded similar to a municipality (Section IV, A.6)

- Public roads (Section IV, A.7)
  - Improved drainage and stability of the road embankment and reduced flooding reduces road maintenance and improves road usability
  - General consensus is that there is a lack of uniformity across the state on how to determine benefits to roads
  - May consider the improvement or betterment of the highway by reason of the construction of bridges provided in the engineer's plans and specifications as a benefit
  - Damages may be awarded for the cost of construction and maintenance of bridges required by the engineer's plans
- Railways and other utilities (<u>Section IV, A.8</u>)
  - Similar considerations for railways as for roads

- Public roads (Section IV, A.7)
  - Improved drainage and stability of the road embankment and reduced flooding reduces road maintenance and improves road usability
  - General consensus is that there is a lack of uniformity across the state on how to determine benefits to roads
  - May consider the improvement or betterment of the highway by reason of the construction of bridges provided in the engineer's plans and specifications as a benefit
  - Damages may be awarded for the cost of construction and maintenance of bridges required by the engineer's plans
- Railways and other utilities (<u>Section IV, A.8</u>)
  - Similar considerations for railways as for roads

#### Market-Value Based Benefits (Section IV, B)

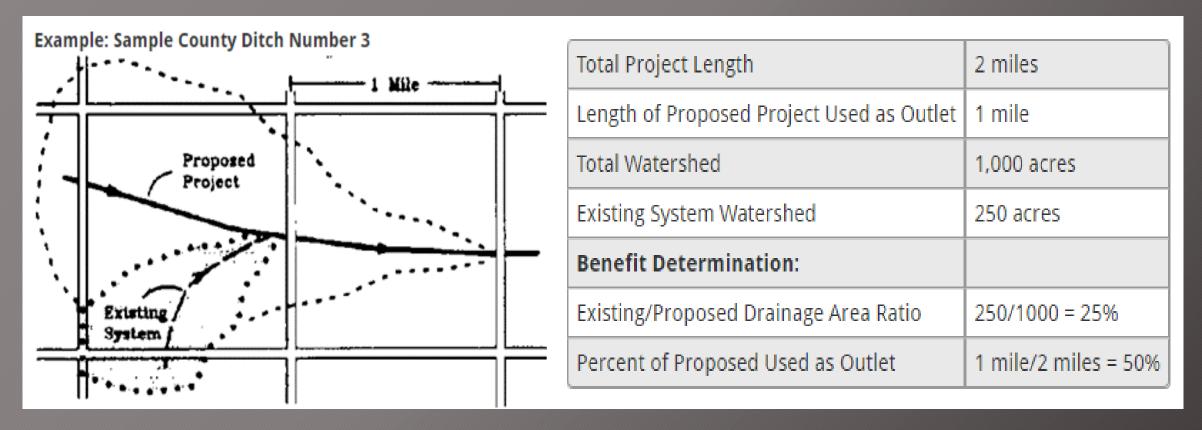
- Chapter 103E provides little textual guidance in how benefits are determined
- Market-Value Based methods justify assessments based on an increase in the market value of property caused by the project
  - An increase in the current market value of property;
  - An increase in the potential for agricultural production; or
  - An increased value of property as a result of a different land use
- Flat-rate assessments violated 103E.315, subd. 5(a) and state and federal constitutional provisions
- Market-Value Based Benefits require a determination greater than that the land is in the watershed of the drain - <u>Seidlitz</u>
- Wetlands and conservation lands may also provide a limitation to determining an increase in the market value of land

#### Charge Based Benefits (Section IV, C)

- Authority for charge-based benefits found in 103E.315, subds. 6 & 7
- Historically assessed based upon calculation of a charge to the upstream system based on the burden that the upstream system placed on the drainage system downstream
- These benefits are not limited by an incremental increase in market value
- Applicable situation must be for "increased sedimentation" or "because the natural drainage on the property has been altered or modified to accelerate the drainage of water from the property"
- Because Charge-Based authority requires a finding of use or benefit from increased sedimentation or accelerated water caused by altered or modified drainage, viewers and drainage authorities using this authority should seek consultation from an engineer and a lawyer
- Example: landowner improved her property with drain tile and cast those waters as burden upon downstream landowners in the watershed. After the private drainage, a drainage system is constructed through the watershed. Private tile increased the rate and volume of water flow from their land toward the drainage system, and the drainage system now serves as an outlet for those waters that previously caused damage to downstream landowners.

#### Charge Based Benefits (Section IV, C)

Benefits to proposed drainage system as an outlet (<u>Section IV, C.1</u>)



## Charge Based Benefits (Section IV, C)

Soil Loss	5 tons/acre/year		
Soil Weight	125 lbs/ ft. <sup>3</sup>		
Percent of Sediment Retained in System	5%		
Project Life	25 years		
Step One:			
5 tons/acre/year x 2,000 lbs/ton =	10,000 lbs/acre/year		
10,000 lbs/acre/year =	80 ft. <sup>3</sup> /acre/year		
Step Two:			
80 ft. <sup>3</sup> /acre/year x 5% =	4 ft. <sup>3</sup> /acre/year		
4 ft. <sup>3</sup> per acre, per year of eroded soil is retained in the system.			
Step Three:			
4 ft. <sup>3</sup> /acre/year x 25 years =	100 ft. <sup>3</sup> /acre		
100 ft. <sup>3</sup> /acre + 27 ft.3/ yds.3=	3.7 yds. <sup>3</sup>		
Step Four:			
3.7 yds. <sup>3</sup> at an estimated removal cost of \$2.00/ yd. <sup>3</sup> amounts to \$7.40 per acre of cost.			

 Benefits for existing system that increases sedimentation in downstream areas of the watershed (Section IV, C.2)

## Charge Based Benefits (<u>Section IV, C</u>)

Redetermination of Benefits:	
Watershed is 1,000 acres with a 100 acre water management area (WMA) that is comprised of 30 acres of wetlands and 70 acres of native prairie grassland.	
Watershed Size	1,000 acres
Wetlands Assessed in Previous Proceeding	270 acres
Design Rainfall	3 inches
Ditch Length	1 mile
"Without" Accelerated Drainage Discharge	163 ft. <sup>3</sup> /second
"With" Accelerated Drainage (Full row crops on 900 acres within watershed)	260 ft. <sup>3</sup> /second
Step One - Design the Ditch for "Without" Accelerated Drainage Condition:	
163 ft. <sup>3</sup> /second	
4 ft. bottom	
2:1 side slopes	
5.2 ft. depth required	
14,670 yd. <sup>3</sup> @ \$1.50/yd. <sup>3</sup>	\$22,005
Step Two - Design the Ditch for "With" Accelerated Drainage Condition:	
260 ft. <sup>3</sup> /second	
4 ft. bottom	
2:1 side slopes	
6.2 ft. depth required	
20,730 yd. <sup>3</sup> @ \$1.50/yd. <sup>3</sup>	\$31,095
Step Three - Determine the Added Ditch Cost for Accelerated Drainage Condition:	
\$31,095 - \$22,005 =	\$9,090
"Step Four – Determine the Cost per Acre for the 900 Acres in the Watershed that have been Altered to Accelerate Drainage:"	
\$9,090 / 900 acres =	\$10.10/acre

 Benefits for existing system that accelerates natural drainage (Section IV, C.3)

#### Protection Benefits (Section IV, D)

- Diversion of flood waters away from property can also be deemed a benefit to a drainage system project
- Property protected from a flood risk is valued higher in the marketplace than property subject to flooding damages
- Drainage authorities have the power and corresponding responsibility to control flood waters
- Court of Appeals has held that the diversion of flood waters is within the plain meaning of the word "benefit" City of Olivia v. Renville Cnty. Bd. of Comm'rs (Minn. Ct. App. 2006)

#### Determining the Extent of Damages

- I. Introduction to Chapter 4
- II. Procedures Requiring Viewing
- III. Appointment of Viewers
- IV. Assessment of Drainage Benefits
  - A. Determining Benefits for Tribal, Government, or Public Lands
  - B. Market-Value Based Benefits
  - C. Charge-Based Benefits
  - D. Protection Benefits
  - E. Benefit Considerations for Certain Projects and Proceedings
- V. Extent of Damages
- VI. Viewers' Report/Property Owners' Report
- VII. Maintaining Benefits Records

#### Basis of Damages (Section V, A)

- Fair market value of the property required for construction of the channel of open ditch and the permanent strip of perennial vegetation required under Minn. Stat. § 103E.021.
- Diminished value of the farm due to severing a field with an open ditch.
- The loss of crop production during drainage project construction.
- The diminished productivity or land value from increased overflow.
- Costs to restore perennial vegetative cover or structural practice existing under a federal or state conservation program adjacent to the permanent drainage system right-of-way and damaged by the drainage project.

#### Easements & Right of Way (Section V, A)

- Channel of Open Ditch (Section V. A(1)) fair market value of acreage required for open channel and adjacent lands where spoils are deposited and leveled; might also include severance damages for open channel across property
- For drain tile systems, damages are typically based on loss of income during construction and a limited number of additional years for loss of production income from soil disturbance.
- Damages include the burden of entry for future inspection and maintenance of the drainage system.

#### Easements & Right of Way (Section V, A)

- Permanent Strip of Perennial Vegetation (Section V. A(2)) typically less than the fair market value of similar property, because the underlying property remains owned by the adjacent landowners and limited uses are still permitted.
- Typically the difference in the fair market value of agricultural land and its value as grassed area.

#### Viewers' & Property Owner's Reports

- Introduction to Chapter 4
- II. Procedures Requiring Viewing
- III. Appointment of Viewers
- IV. Assessment of Drainage Benefits
  - A. Determining Benefits for Tribal, Government, or Public Lands
  - B. Market-Value Based Benefits
  - C. Charge-Based Benefits
  - D. Protection Benefits
  - E. Benefit Considerations for Certain Projects and Proceedings
- V. Extent of Damages
- VI. Viewers' Report/Property Owners' Report
- VII. Maintaining Benefits Records

#### Viewers' Report (Section VI, A)

- 4	Α	В	C	D	E	F	G	Н	I	J	K	L	M	N	(
1					<name authority="" drainage="" of=""></name>										
2		<date c<="" of="" td=""><td>REATION&gt;</td><td></td><td colspan="5"><name drainage="" of="" system=""></name></td><td></td><td>TEMPLATE A:</td><td>VIEWER'S</td><td>REPORT</td><td></td><td></td></date>	REATION>		<name drainage="" of="" system=""></name>						TEMPLATE A:	VIEWER'S	REPORT		
3		Board Adopted			<year &="" drainage="" project=""></year>				>						
4	:DA	TE BOARD ADOP	TED>											Maintenaone cost	10000
5															
6		PARCEL								IN	POTENTIAL	GROSS	PROXIMITY	NET	MA
7		NUMBER	NAME			DESCRIPTION	SEC	T-N	R-W	TRACT	BENEFIT	BENEFIT	RATE	BENEFIT	co
8															
9		<parcel id="" no.=""></parcel>	<name></name>			NESE	##	###	##	16.00	6400.00	5120.00	100	5120.00	895
10		<parcel id="" no.=""></parcel>	<address></address>			SESE	##	###	##	16.90	800.00	640.00	100	640.00	111
11			<address></address>	MN	<zip></zip>										
12															
13															
14		<parcel id="" no.=""></parcel>	<name></name>			NENE	##	###	##	23.50	52765.00	35372.00	100	35372.00	6,18
15			<address></address>			NWNE	##	###	##	18.00	41782.50	26815.50	100	26815.50	4,69
16		<parcel id="" no.=""></parcel>	<address></address>	MN	<zip></zip>	SENE	##	###	##	17.50	43830.00	28426.00	100	28426.00	4,97
17						NESE	##	###	##	19.00	25685.00	18583.00	100	18583.00	3,25
18															
19		<parcel id="" no.=""></parcel>	<name></name>			NENE	##	###	##	16.50	33920.00	22189.00	100	22189.00	3,88
20			<address></address>			NWNE	##	###	##	22.00	49530.00	33309.00	100	33309.00	5,82
21			<address></address>	MN	<zip></zip>	SWNE	##	###	##	20.36	33497.50	23685.50	100	23685.50	4,14
22						SENE	##	###	##	22.50	19085.00	12355.00	100	12355.00	2,16
23															
24		<parcel id="" no.=""></parcel>	<name></name>			SWNE	##	###	##	9.42	800.00	640.00	100	640.00	111
25			<address></address>												
26			<address></address>	MN	<zip></zip>										
27															
28															
29		<parcel id="" no.=""></parcel>				SWNE	##	###	##	10.68	4740.00	3558.00	100	3558.00	622
30			<address></address>												
31			<address></address>	MN	<zip></zip>										

- Viewers' reports must show 11 things required by statute.
- Template Viewers' Report
- Template can be downloaded as excel spreadsheet and edited by user.

#### Benefits & Damages Statement (Section V, A)

- Similar to the narrative section of a restricted appraisal report.
- These are typically mass appraisals; the benefits and damages statement describes the procedure used for classifying lands and determining range of values.
- The report must describe:
- (1) existing land use, property value, and economic productivity;
- (2) potential land use, property value, and economic productivity after the drainage project is constructed; and
- (3) the benefits or damages from the proposed project.

#### Property Owner's Report (Section VI,D)

## STATE OF MINNESOTA Before the <DRAINAGE AUTHORITY NAME> SITTING AS THE DRAINAGE AUTHORITY FOR <NAME OF DRAINAGE SYSTEM>

In the Matter of:

the Petition to <Name of Project>
<Name of Drainage System>

PROPERTY OWNER'S REPORT

<date>

- <Name>
- <Address>
- <Address>
- <City, State Zip Code>

Dear <>:

This is the owners' report as required by Minn. Stat. § 103E.323.

(name of property owner)

- The property owner's reports must show 11 things required by statute.
- Template Property Owner's Report

#### Maintaining Benefits Records

- I. Introduction to Chapter 4
- II. Procedures Requiring Viewing
- III. Appointment of Viewers
- IV. Assessment of Drainage Benefits
  - A. Determining Benefits for Tribal, Government, or Public Lands
  - B. Market-Value Based Benefits
  - C. Charge-Based Benefits
  - D. Protection Benefits
  - E. Benefit Considerations for Certain Projects and Proceedings
- V. Extent of Damages
- VI. Viewers' Report/Property Owners' Report
- VII. Maintaining Benefits Records

#### Recording Benefits (Section VII, A)

#### Auditor's Drainage Lien Statement

This instrument drafted by:

<Name of Auditor>
<County Name> County Auditor
<City>, MN ≤Zip>

Date: <date>

#### STATE OF MINNESOTA

#### COUNTY OF <NAME OF COUNTY>

I, <Auditor's Name>, County Auditor of the County of <County Name>, State of Minnesota, do hereby certify that the foregoing lien statement has been prepared from the files and records <of my office/of <name of joint county or watershed district drainage authority>> in proceedings for establishment and construction of <Name of Drainage Project> to <Name of Drainage System>; that the statement of costs is a full statement of the total costs of said drainage <system/project>, including the estimated cost of all items required to complete the same; that the foregoing statements are true and correct according to the files and records <of my office/of <name of joint county or watershed district drainage authority>>.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of my office this \_\_\_\_\_ day of \_\_\_\_\_\_, <year>.

- Once contract is awarded, auditor or secretary makes a statement showing all costs of the project.
- Drainage lien statements are created and recorded against all of the benefited properties.
- Template Drainage Lien Statement

## Questions / Panel Discussion