



Minnesota Board of Water and Soil Resources.
Minutes.

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MINNESOTA BOARD OF WATER AND SOIL RESOURCES

MINUTES OF THE MEETING HELD

SEPTEMBER 27, 1989

Appointed Members in Attendance

Donald Ogaard
John Williamson
John Boulton
Eugene Kalmes
Don Warner
Loni Kemp
William Cofell
Howard Peterson
Jack Graba
Douglas Bade

Appointed Members Absent

John Brooks, Jr.
Natalie Haas Steffen
Ken Schellack
James Hoese
Loren Harste
Lowell Moen

Others in Attendance

Paul Burns, Minnesota Department of Agriculture
Wayne Anderson, Minnesota Pollution Control Agency
Franklin Denn, Minnesota Association of Townships
Dave Benner, Soil Conservation Service
Paul Kalass, Minnesota Association of Conservation District Employees
Bea Hoffman, Winona County Recycling
Jim Luehmann, Stockton-Rollingstone-Minnesota City Watershed District
Jim Riddle, Winona Soil and Water Conservation District

Staff Present

Jim Birkholz
Pat Bloomgren
Mel Sinn
Greg Larson
Chris Hofstede
Mary Jo Anderson

Dave Peterson
Denice DeFrates
Darrell Apelgrain
Doug Thomas
Brian Dwight

Chris Hughes
Dave Behm
Tom Schwanke
Mark Nelson
Jeff Nielsen

Meeting Called to Order - Chairman Ogaard called the meeting to order at 9:00 a.m. in the Wenonah Room at the Holiday Inn, Winona, Minnesota.

**** 89-76** **Adopt Agenda** - Moved by Warner, seconded by Kalmes, to adopt the agenda as presented. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

**** 89-77** **Approval of Minutes of August 23, 1989** - Moved by Cofell, seconded by Peterson, to approve the minutes of August 23, 1989 as circulated. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

Chairman's Report - Chairman Ogaard expressed his appreciation for the very rewarding and enlightening tour yesterday of southeastern Minnesota. He stated that the BWSR's concept to hold two meetings per year out-state is great.

Chairman Ogaard reported on the most recent Metro Water Management Task Force meeting. One of his main concerns is with whether WMO's should all be ongoing, hands-on management entities. As a result of a polling of the task force members, they unanimously said that, "yes, WMO's should be on-going management entities. This concerned Chairman Ogaard since BWSR's WMO telephone survey indicates that only about 50% of existing WMO's intend to pursue an ongoing management role. Oversight and who provides it is also a main issue the group is dealing with. Jim Birkholz's presentation to the task force suggested that the SWCDs serve as a vehicle in a WMO reporting/oversight process to the BWSR. There was surprisingly little support for this concept! On the other hand, there is a high degree of interest and trust for the BWSR to serve directly as the WMO oversight body.

Chairman Ogaard reported that he attended the MASWCD's "Future of Soil and Water Conservation Districts" meeting on September 16 in St. Cloud. He also reported that he was a presenter at the Minnesota Agri-Growth Council meeting on September 25.

Executive Director's Report - Jim Birkholz reported on the status of State Planning Agency review of the Legislative Initiatives that the BWSR approved at the August 23rd meeting. Jim reported that since the August BWSR meeting, he has met with AMC, MAWD, and MASWCD to communicate and continue coordinating efforts on the Legislative Initiatives.

Jim reported that he attended the Joint Legislative Committee on Agricultural Land Preservation and Soil and Water Conservation meeting on September 11 in St. Paul regarding the soil and water stewardship proposal. Proposals have been submitted and the BWSR will be informed shortly of the outcome.

Jim reported that a mediation training session was held on September 12-13 in Arden Hills for the BWSR Dispute Resolution Committee and staff. The session was very informative on mediation and resolution procedures. Pat Bloomgren was commended for efforts on arranging the session.

Jim reported that he was a speaker at the Izaak Walton League annual meeting on September 16. He was a panelist at the AMC Drainage Subcommittee meeting on September 21, regarding wetlands management. Jim announced that a one-day wetlands seminar will be held at St. John's University on November 14th. Additional information on this seminar will be provided.

Jim reported that on September 22, the board representative supervisor positions, the forestry position in Duluth, and the accounting position in New Ulm, had been advertised. Staff will continue to search for candidates for the hydrologist/well sealing position.

Jim reported that on October 6, state agencies will brief the citizens advisory committee of LCMR regarding the Environmental Trust Fund.

Jim reported on the status of Comprehensive Local Water Plans. He stated that 35 plans are in the local review process. The BWSR will see an increase in the plans in the upcoming months.

Jim reported that Denise DeFrates, Communications Manager, returned from a leave of absence effective September 15, 1989.

Jim introduced Tom Schwanke, newly hired Business Manager, on mobility assignment for two years from the Minnesota Department of Agriculture. Jim stated that he is pleased to have Tom on staff.

Award Presentation Committee (Loni Kemp, Bill Cofell, Jack Graba) - Loni Kemp reported that a Nomination Form has been developed. BWSR members are welcome at any time to nominate an individual or organization that they feel is deserving of an award. Bill Cofell stated the committee is still in the process of developing criteria for final judging of an award. The basic idea of an award is to give positive strokes to people whenever the occasion of merit arises. He stated that the door is always open to formalize this, a possibility is to institute an annual award. It was decided to put an article in the Mentor to announce the award process.

Report on Theology Meeting - Bill Cofell reported that he attended the "Theology of the Land" conference in August at St. John's University. The conference focused on obligations of land stewardship both in the future and present problems; relationships of the land; and ownership limitations needed. Bill stated that it was a very positive conference.

Report on Animal Waste Management Committee - Bill Cofell reported that he attended a meeting on September 14, with MPCA officials at the Holiday Inn in Shoreview. He stated that he was pleased with the presentation made by Brian Dwight, Board Representative from Marshall. Bill reported that it was a very positive meeting, although there is a need to do something about existing problems. PCA should be commended on how they conducted the meeting. Wayne Anderson stated that recommendations will be coming out from this meeting. A memo of understanding with MPCA and the BWSR

needs to be done. There is also a need for technical assistance for handling of, and utilization of manure.

Chairman Ogaard asked that Board members comment and convey their thoughts of the tour yesterday. Response from everyone was enthusiastic. Jim Birkholz thanked everyone involved with planning the tour and making arrangements.

Regional Report - Dave Peterson, Board Representative in southeastern Minnesota, thanked everyone for coming to the area to attend the tour and meeting. He reported that he has been working on the usual operational tasks for the RIM Program, water plans, personnel, and the various grant programs. He stated that the mass training programs for soil and water conservation districts have been effective but will need to be changed. He stated that there is a high level of capability among SWCD staff. He reported that there are six watershed districts in the area. It is a high priority of his to work more with the watershed districts. He has reviewed four local water plans, which have been good plans. Dave stated that SWCD employees are at a turning point, leadership and networking is being done. He stated that BWSR support is needed on the local water planning process. Local units need to individually take the initiative on local water planning. BWSR members and staff need to work with the local units of government on this. He felt that training should be targeted more on this. Dave reported on the status of the leadership training program he is helping to get started. More small group work with local officials will be done before conducting formal sessions.

Winona County Recycling - Bea Hoffman gave a very informative slide/show presentation on the recycling program in Winona County.

Stockton-Rollingstone-Minnesota City Watershed District - Jim Luehmann, President of the watershed district, stated that education, public awareness and participation is needed in order for things to get accomplished -- things don't happen overnight. He showed the Board a button that the watershed district is distributing.

Winona SWCD - Jim Riddle, Vice-Chairman of the Winona SWCD, read the Winona SWCD's mission statement to the Board. He explained the SWCD role in conservation. Tree planting has been done with the involvement of 5th, 6th, and 8th grade students. He stated that education and demonstration projects are important.

Conservation Video - Pat Bloomgren showed the Board a public service announcement that was done on groundwater. The Board then viewed a video, "Pointless Pollution" that will be aired on national television this fall, narrated by Walter Cronkite. Eugene Kalmes is featured in this excellent video tape.

Advisor's Comments - Dwain Otte, MASWCD, introduced the Board of Directors that were present. He stated that he appreciated the opportunity to come to southeastern Minnesota for the tour. He has been working on the Great Lakes issues and concerns and would like to meet with the Board on these issues.

Chairman Ogaard recessed the meeting for lunch at 11:55 a.m. The meeting reconvened at 1:05 p.m.

Dave Benner, SCS, reported that Gary Nordstrom is in Traverse City, Michigan, this week, so he appreciated the opportunity to attend the meeting and tour. He reported that Roger Muesetter has been appointed as State ~~Resource~~^{Assistant} Conservationist, replacing John Edwards. He stated that the SCS budget is about the same as last year. Dave reported that there is potential for one last CRP sign-up.

Paul Kalass, MACDE, thanked the Board for the opportunity to attend the BWSR meeting. He reported that the MACDE now has quarterly board meeting committee reports.

Franklin Denn, MAT, stated that he appreciated attending the very informative tour yesterday.

Environmental Agriculturalist Program - Jim Birkholz reviewed the draft request for proposals of the Legislative Water Commission and the Board of Water and Soil Resources regarding this program with the BWSR. Discussion followed on the wordage and flexibility of the proposal. Priority, eligibility, emphasis on local on-farm practices, and promotion, were concerns that need to be included in the proposal. Moved by Graba, seconded by Williamson, to accept the proposal as amended and submit it to the Legislative Water Commission. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

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89-78

Study Area II Technical Office Budget - Mel Sinn distributed revised copies of the technical office agreement. Darrell Apelgrain reviewed the agreement with the BWSR. Moved by Cofell, seconded by Boulton, to approve the Study Area II Technical Office Budget, designating the Geologic Testing as a 'revolving fund'. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

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89-79

Capital Bonding Requests - Jim Birkholz reported that the deadline for submitting proposed bonding requests is October 1, 1989. Staff has two proposed requests with the #1 priority being RIM Reserve Program, and the #2 priority being Wellner-Hageman Dam. Jim reviewed the RIM Reserve Program proposed request with the BWSR. He stated that the RIM Coalition endorses this proposal but may request more funding themselves. Moved by Williamson, seconded by Kalmes, to approve the RIM Reserve Program bond request for \$12 million, and staff to forward the request to the Department of Finance. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

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89-80

Mel Sinn reviewed the Wellner-Hageman Dam proposed request with the BWSR. Moved by Boulton, seconded by Cofell, to approve the Wellner-Hageman Dam proposed request for \$1.5 million, and staff to forward the request to the Department of Finance. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

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89-81

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89-82

Clay SWCD Emergency Cost-Share Request - Greg Larson distributed an informational summary on the Clay SWCD cost-share project for the Board's review. Discussion followed. Chairman Ogaard recommended that this issue be tabled until the contractor's law and specific contract language has been looked into. Moved by Williamson, seconded by Cofell, to table the Clay SWCD Emergency Cost-Share Request. Affirmative: Ogaard, Williamson, Boulton, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried. Greg Larson will contact the Clay SWCD to inform them of the Board's decision. Greg will also contact legal counsel and report back to the BWSR at the October meeting.

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89-83

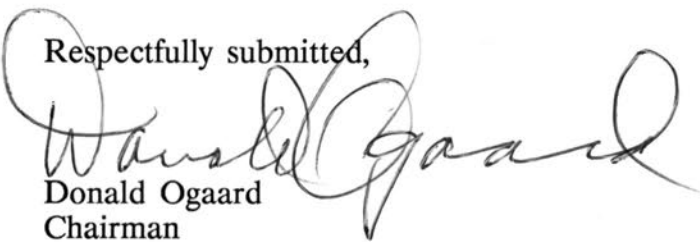
Overview of Rulemaking Process for the Local Water Resources Protection and Management Program - Greg Larson reported that part of the Big Water Bill provides grants to counties as identified in the Comprehensive Local Water Plan. Greg stated that project managers, legislators Munger, Morse, and Bishop, and the Extension Service should be invited to respond in addition to the others on the list distributed to Board members. Greg Larson will take the lead on the rulemaking process until someone is hired in this position. The information on the notice of solicitation of outside information or opinions regarding the proposed rule governing local water resources protection and management program should be published in the State Register. Moved by Boulton, seconded by Warner, to adopt and proposed notice and publish it in the State Register. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

Chairman Ogaard asked Gene Kalmes to comment on the tour. Gene stated that he was happy everyone came to Winona and hoped that everyone learned about the topography of the area.

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89-84

Moved by Warner, seconded by Peterson, to adjourn the meeting at 2:30 p.m. Affirmative: Ogaard, Williamson, Boulton, Kalmes, Warner, Kemp, Cofell, Peterson, Bade, and Graba. Opposed: None. Carried.

Respectfully submitted,


Donald Ogaard
Chairman



September 18, 1989

TO: Board of Water and Soil Resources Members,
Staff, and Advisors

FROM: Jim Birkholz, Executive Director *J. Birkholz*

SUBJECT: September Tour and Board Meeting

Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, Minnesota 55107

(612) 296-3767

Regional Offices

Northwest Region
1819 Bemidji Ave.
Bemidji, MN 56601
218-755-3963

Northeast Region
Government Service Center
320 W. 2nd Street
Room 603
Duluth, MN 55802
218-723-4752

West Central Region
611 Iowa Avenue
Staples, MN 56479
218-894-1692

South Central Region
Box 756
New Ulm, MN 56073
507-354-2196

Southeast Region
Friedell Bldg., Room 100
1200 S. Broadway
Rochester, MN 55904
507-285-7458

Southwest Region
Box 111
1400 E. Lyon Street
Marshall, MN 56258
507-537-7260

East Central Region
Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, MN 55107
612-296-3767

Enclosed is the itinerary for the September 26th BWSR tour and the agenda for the September 27th Board meeting. The tour will begin at 8:30 a.m. on Tuesday at the Holiday Inn in Winona (located at the junction of Highway 61 and State 43). After a short orientation and distribution of tour booklets the bus tour will leave at 8:45 a.m. Be prepared for a day-long tour as the buses will return to the Holiday Inn at 5:30 p.m. Dinner on Tuesday evening has been arranged at the Julius Wilke on the riverfront.

The Board meeting on Wednesday, September 27th will begin at 9:00 a.m. in the Wenonah Room at the Holiday Inn. Following is information about the agenda items:

- After reports the morning agenda will focus on southeast Minnesota regional issues. Several individuals will be making brief presentations to the Board. There will be adequate time for a discussion session.

- Afternoon agenda items will focus on several policy decisions requiring Board action. Enclosed is a copy of the draft Study Area II technical office budget and the Clay SWCD emergency cost-share request for your review. Information on additional agenda items will be available at the meeting.

Please call Mary Jo Anderson at 612-297-4290 or Dave Peterson at 507-285-7458 for details regarding the tour and Board meeting arrangements. For questions or comments on the agenda please contact Chairman Ogaard or myself. Those of you who will be attending the Mystery Cave tour on Monday evening the 25th, have received a notice in this packet. If you still have a question whether you are being included for the cave tour call Mary Jo. Please travel safely. See you in Winona!

**BOARD OF WATER AND SOIL RESOURCES MEETING
HOLIDAY INN
WINONA, MINNESOTA
SEPTEMBER 27, 1989**

PRELIMINARY AGENDA

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|------------|--|
| 9:00 a.m. | <ol style="list-style-type: none">1. Call to Order2. Adopt Agenda3. Approval of Minutes of August 23, 19894. Reports<ul style="list-style-type: none">• Chairman's Report - Donald Ogaard• Executive Director's Report - Jim Birkholz• Award Presentation Committee (Loni Kemp, Jack Graba, and Bill Cofell)• Report on Theology Meeting - Bill Cofell• Report on Animal Waste Management Committee - Bill Cofell |
| 10:00 a.m. | <ol style="list-style-type: none">5. Regional Report - Dave Peterson6. Local reports, concerns and discussion<ul style="list-style-type: none">• Winona County recycling - Bea Hoffman• Stockton-Rollingstone-Minnesota City Watershed District - Jim Luehmann, President• Winona SWCD - Jim Riddle |
| 11:15 a.m. | <ol style="list-style-type: none">7. Conservation video featuring Eugene Kalmes
(the MASWCD Board of Directors will join the Board for this part of the agenda) |
| 12:00 | Lunch - buffet |
| 1:00 p.m. | <ol style="list-style-type: none">8. Environmental Agriculturalist Program - for discussion9. Study Area II Technical Office Budget - for action10. Capital Bonding request(s) - Jim Birkholz<ul style="list-style-type: none">• Wellner-Hageman structure• RIM Reserve11. Clay SWCD Emergency Cost-Share Request - Greg Larson12. Overview of rulemaking process for the Local Water Resources Protection and Management Program - Greg Larson |
| 3:00 p.m. | Adjourn |

**MINNESOTA BOARD OF WATER AND SOIL RESOURCES
TOUR OF SOUTHEASTERN MINNESOTA
SEPTEMBER 26, 1989**

ITINERARY

8:30 AM	Tour Orientation	(Holiday Inn, Winona)
8:45 AM	Bus Tour	(Garvin Brook RCWP)
9:15 AM	Coffee Break & Discussion of RCWP	(Farmers Park)
9:40 AM	View Sinkhole & Animal Waste Facility	(Clarence Ressie Farm)
10:15 AM	View Typical Bedrock Formations	(Quarry)
10:30 AM	Discussion of Ground Water/Nitrogen Study	(Eugene Kalmes Farm)
11:15 AM	Sensitive Ground Water Areas and Agricultural Practices (Whitewater State Park Interpretive Center)	
NOON	Lunch and History of the Whitewater Valley	(Interpretive Center)
1:00 PM	Bus Tour of Winona County to Pickwick	
2:30 PM	Pickwick Site and Dedication Ceremony	
4:00 PM	Buses to Dakota	
4:30 PM	Discuss Water Bill & Environmental Legislation with Senator Morse (Morse Apple Farm, Anne Morse to Describe Operation)	
5:30 PM	Buses to Holiday Inn	(Winona)
6:30 PM	To Julius Wilke for Dinner	

SLEEPING ROOM RESERVATIONS

Monday, September 25

Single Rooms

Don Warner
Howard Peterson
Doug Bade
John Boulton
Denice DeFrates
Dave Peterson
Darrell Apelgrain
Pat Bloomgren
Tom Schwanke

Double Rooms

Jack Graba
Don Ogaard
Bill Cofell
Jeff Nielsen & Brian Dwight
Wayne Edgerton & Jim Birkholz
Mark Nelson & Doug Thomas
Mel Sinn & Dan Steward
Dick Ness & Greg Larson
Chris Hofstede & Chris Hughes
Mary Jo Anderson & LeeAnn Buck

Tuesday, September 26

Single Rooms

Don Warner
Howard Peterson
Doug Bade
John Boulton
Denice DeFrates
Dave Peterson
Darrell Apelgrain
Pat Bloomgren
Tom Schwanke
Loni Kemp

Double Rooms

Jack Graba
Don Ogaard
Bill Cofell
Jeff Nielsen & Brian Dwight
Wayne Edgerton & Jim Birkholz
Mark Nelson & Doug Thomas
Mel Sinn & Dan Steward
Dick Ness & Greg Larson
Chris Hofstede & Chris Hughes
Mary Jo Anderson & LeeAnn Buck

DEPARTMENT : HEALTH

STATE OF MINNESOTA

Office Memorandum

DATE : August 31, 1989

TO : Donald Ogaard, Chairman
Board of Water and Soil ResourcesFROM : Sister Mary Madonna Ashton
Commissioner *ASHTON*

SEP 5 1989

PHONE : 623-5460

SUBJECT : Minnesota Department of Health Representative on Board

This is to notify you that I would like to appoint Dr. Ray Thron, Director of our Environmental Health Division, as our representative on the Board of Water and Soil Resources. He will be replacing Mick Finn.

Thank you.

SMMA:bam

cc: Dr. Ray Thron

Board members, please note.

establishment of information exchange and integration; procedures for identifying research needs and reviewing and preparing informational materials; procedures for factoring integrated pest management into state laws, rules, and uses of pesticides; and identification of barriers to adoption.

(c) The commissioner shall report to the governor and legislature by November 15, 1990, and on a biennial basis thereafter.

Sec. 3. [40.31] ENVIRONMENTAL AGRICULTURALIST EDUCATION PROGRAM.

Subdivision 1. PROGRAM. An environmental agricultural program is established:

- (1) to work with agricultural producers;
- (2) to advise and inform agricultural producers on the impact of certain farming practices on water quality;
- (3) to promote sustainable agriculture through use of best management practices and integrated pest management;
- (4) to demonstrate and evaluate alternative pesticide practices; and
- (5) to develop and promote farm profitability through a reduction in farm inputs.

Subd. 2. CONTRACTS. Contracts to carry out the program must be awarded by the board of water and soil resources following review by the legislative water commission.

Sec. 4. Minnesota Statutes 1988, section 40.42, is amended by adding a subdivision to read:

Subd. 6a. SENSITIVE AREA. "Sensitive area" means a geographic area defined by natural features where the groundwater is at significant risk of contamination from activities conducted at or near the land surface.

Sec. 5. Minnesota Statutes 1988, section 40.43, subdivision 2, is amended to read:

Subd. 2. ELIGIBLE LAND. (a) Land may be placed in the conservation reserve program if the land complies with paragraph (b) and:

- (1) is marginal agricultural land; ~~or~~;
- (2) is adjacent to marginal agricultural land and is either beneficial to resource protection or necessary for efficient recording of the land description; ~~or~~;
- (3) consists of a drained wetland; ~~or is land that with a windbreak would be beneficial to resource protection,~~ and cropland adjacent to the restored wetland

New language is indicated by underline, deletions by ~~strikeout~~.

\$200,000/yr.

DRAFT

Project: Area Technical
Office

Contract No: MBWSR 104-19

MINNESOTA BOARD OF WATER AND SOIL RESOURCES

TECHNICAL OFFICE AGREEMENT

THIS AGREEMENT, is made this day of August, 1989, for the period July 1, 1989, through June 30, 1990, by and between the Minnesota Board of Water and Soil Resources, hereafter called the "Board" and the Area II Upper Minnesota River Basin Board, hereafter called "Area II".

WITNESSETH THAT:

WHEREAS, Minnesota Statutes, Sections 104.42 - 104.50, provides for grants-in-aid to local governmental units within the Southern Minnesota Rivers Basin Area II for the construction of floodwater retarding and retention structures, including site acquisition, design, and construction costs; and

WHEREAS, The counties within the Southern Minnesota Rivers Basin Area II have entered into a Joint Powers Agreement to coordinate and implement construction of such floodwater retarding and retention structures and for this purpose have established the Area II Upper Minnesota River Basin Board to act on their behalf; and

WHEREAS, Area II has established and staffed a technical office to supplement the engineering and technical services provided by the Board and the Soil Conservation Service; and

WHEREAS, This technical office houses the Board's engineer and Area II personnel; and

WHEREAS, The Board provides annually up to 75% of the operating costs of this technical office including, but not limited to, rent, furniture, salaries, per diem, survey and testing materials, vehicles, secretarial and accounting expenses, employee and engineer travel and education expenses, and telephone services.

NOW THEREFORE, in consideration of the premises set forth herein, Area II and the Board hereby agree as follows:

A. AREA II SHALL:

1. Provide suitable office space for their employees, ~~the Board's Engineer, and the Board's District Representative based in Marshall.~~¹
2. Operate the technical office for fiscal year 1990 according to the attached detailed spending and work plan made a part of this Agreement.
3. Provide 25% of Area II's annual budget for operational costs of technical office. The annual budget for fiscal year 1990 is \$110,700.00.
4. Remit monthly to the Board a report of all expenditures made during the month including payments for rent, furniture, salaries, per diem, survey and testing materials, vehicles, secretarial and accounting services, employee and engineer travel and educational expenses, telephone and all other expenses related to the operation of the technical office.
5. Have its financial accounts audited annually and report the results to the Board and to its ten members.
6. Meet annually with the Board at a regular meeting to present new projects and inform the Board on its operations.
7. Request prior authorization of the Board before making purchases not identified in the work plan.
8. Reimburse the Board for expenditures which are ruled by the Board to be ineligible uses of state money.
9. Indemnify and save and hold the Board, its agents and employees, harmless from any and all claims or causes of action arising from the performance of this Agreement by Area II, its agents or employees. This clause shall not be construed to bar any legal remedies Area II may have for the Board's failure to fulfill any obligations pursuant to this Agreement.

B. THE BOARD SHALL:

1. Within the limits of legislative appropriation provide 75% of Area II's yearly budget but not more than \$83,025.00 from fiscal year 1990 Funds.
2. Provide, at its expense, the services of its Staff Engineer according to Minnesota Statutes, Section 104.45, who, in addition to any other duties he may have, shall manage the technical office.
3. Provide overall supervision of projects in the best interest of the state.

C. IT IS MUTUALLY AGREED THAT:

1. The books, records, documents, and accounting procedures and practices of Area II relevant to this Agreement are subject to examination by the Minnesota Board of Water and Soil Resources and the State Auditor as per Minnesota Statutes 16.095.
2. No member of any elected body, nor any employee or agent of Area II or the Board shall materially benefit, directly or indirectly, from any project undertaken by Area II, except as provided by law or this Agreement.
4. This Agreement may be canceled by either party upon a thirty (30) day notification.

AREA II UPPER MINNESOTA RIVER BASIN

TECHNICAL OFFICE WORK PLAN

FISCAL YEAR 1990

The Area II Technical Office will operate using the funds shown in the spending plan for 1989 as follows:

Area II The office will be managed by the engineer employed by the Board of Water and Soil Resources. The position will be under the direction of the Director of the Board of Water and Soil Resources.

The engineer is responsible for preparing the spending plan and billing the ten counties for their share of the spending plan. The engineer will be responsible for maintaining the financial records of the technical office.

The Area II Directors will provide office space for the Board's Engineer, the Board's District Representative, and their employees at 1400 East Lyon Street in Marshall, Mn.

The Area II Directors will employ an engineering technician for assisting the engineer in the design, construction inspection, surveying, drafting, and administration of the projects undertaken by this office. This technician will work full time during fiscal 1990 and be under the supervision of the engineer employed by the Board of Water and Soil Resources.

The technician's time will be used as follows during Fiscal Year 1990:

1. Five months preliminary and topographic surveying of new structure sites.
2. One month Engineering Design training and other related training.
3. Five and one fourth months design, computation, and drafting for projects.
4. Three weeks annual leave.

A part-time technician will be employed as needed to assist the engineering technician with surveying and other duties .

The Directors of Area II will employ a part-time clerk/accountant to perform the accounting, typing, and clerical work required by the engineer. The engineer will determine the time needed to complete the clerical work.

The employees described in the previous two paragraphs will work under the supervision of the engineer employed by the Board of Water and Soil Resources. The spending plan also allows for per diem and expense payments to the ten directors and alternates for performing their duties in the operation of the Area II Technical Office. The spending plan also allows for general liability insurance, workmen's compensation, honesty bonds, theft and casualty insurance, and automobile insurance. The directors also carry medical and dental insurance for the technician.

The office expenses shown are derived from actual costs of the previous year with a small inflation increase. Also included is an item to fund seminars for the Board's Engineer. This will be used to pay for seminars necessary for continuing education in dam safety, flood plain management, structure design, and other courses concerned with the engineer's duties.

The spending plan allows for the purchase of a replacement vehicle for the 1985 Celebrity automobile which has over 95,000 miles and needs tires and transmission work. It also allows for the purchase of additional software to be used for engineering design and accounting duties for Area II.

The survey and testing supplies are necessary for expendable supplies such as lath, stakes, paint, etc., as well as laboratory tests and maintenance of the survey and testing equipment.

The amount budgeted for geological testing will allow for the contracting of mapping, drilling, sampling and testing of proposed structure sites, and other testing required for new projects.

AREA II UPPER MINNESOTA RIVER BASIN

TECHNICAL OFFICE BUDGET

FISCAL YEAR 1990

EMPLOYEE EXPENSES

Engineering Technician	\$25,500.00
Part Time Technician Salary	6,000.00
Clerical and Accounting Salaries	3,500.00
Employee Expenses	600.00
Employee Education	1,500.00
Employer Share FICA	2,600.00
Employee Medical Insurance	<u>1,000.00</u>

Subtotal \$40,700.00

DIRECTOR EXPENSES

Director's Per Diem	\$6,500.00
Director's Expenses	3,000.00
Insurance and Bonds	6,000.00
Professional Services	1,500.00
Meeting Expenses	<u>500.00</u>

Subtotal \$17,500.00

OFFICE EXPENSES

Rent and utilities	\$4,600.00
Computer Maintenance	800.00
New Software	2,000.00
Telephone	1,500.00
Postage	600.00
Office & Field Supplies	2,000.00
Automobile Expense	3,500.00
Engineer Seminars	1,000.00
Miscellaneous	<u>500.00</u>

Subtotal \$16,500.00

PROJECT EXPENSES

Geologic Testing	\$21,000.00
Project Expense	<u>3,000.00</u>

Subtotal \$24,000.00

Replacement Vehicle	<u>\$12,000.00</u>
---------------------	--------------------

Subtotal \$12,000.00

GRAND TOTAL \$110,700.00

State Share \$83,025.00

Local Share \$27,675.00

IN WITNESS WHEREOF, the parties have caused this agreement to be duly
executed intending to be bound thereby.

Approved:

AREA II UPPER MINNESOTA RIVER BASIN BOARD

Authorized Signature

Date

MINNESOTA BOARD OF WATER AND SOIL RESOURCES

Authorized Signature

Date

ATTORNEY GENERAL

Authorized Signature

Date

COMMISSIONER OF ADMINISTRATION

Authorized Signature

Date

COMMISSIONER OF FINANCE

Authorized Signature

Date



CLAY SOIL AND WATER
CONSERVATION DISTRICT

2223 E. Highway 10
Moorhead, Minnesota 56560
Telephone: 218-233-7994

MINNESOTA

SOIL AND WATER CONSERVATION DISTRICTS

September 6, 1989

Minnesota BWSR
Southbridge Office Bldg.
155 Wabasha Ave. Suite 104
St. Paul, MN. 55107

Dear Board Members,

As you will recall the Clay SWCD was awarded a Rollover grant of \$30000.00 for FY 1989. These funds were to be applied to solve a high priority erosion control project in Clay County.

Construction on the project began Aug. 8, 1989 by a local contractor, Sellin Bros. Inc., from Hawley, MN. They were low bidder and were awarded the contract for \$50813.50. This bid was \$12584.90 lower than the only other bid so we were well satisfied and all seemed to be going smoothly.

A serious problem has now developed. After giving Sellin Bros. Inc. a firm bid, the erosion control mat supplier, Raymond International of Pennsauken, N.J., went bankrupt, thus not able to supply the mat. Sellin Bros. Inc., then had to order from another supplier, Pre-Pakt of Cleveland, OH., at an increased cost of \$.50 per sq. ft. adding to their cost a total of \$4563.50 for the required 9127 sq. ft. To add to this dilemma, the area received nearly 7 inches of rainfall last week causing serious water erosion being the mat wasn't in place. Repairing this erosion will greatly increase Sellin Bros. Inc. expenses as an estimated 1100 cu. yds. of soil has been washed towards the river and will need to be brought back and placed.

Sellin Bros. Inc. have been doing 75% of our construction and have always done excellent work at a very reasonable cost. The Clay SWCD Supervisors feel that they cannot be charged with the additional cost of the erosion control mat in addition to their added costs due to erosion. We are requesting the BWSR to add an additional \$4563.50 to the original grant of \$30000.00 so we can proceed with the project and solve this serious erosion and water quality problem.

AN EQUAL OPPORTUNITY EMPLOYER

Greg
Coll

4564



CLAY SOIL AND WATER
CONSERVATION DISTRICT

2223 E. Highway 10

Moorhead, Minnesota 56560

Telephone: 218-233-7994

MINNESOTA

SOIL AND WATER CONSERVATION DISTRICTS

I have enclosed copies of the two bids that we received along with a breakdown of how, I feel, the allowable cost share should be computed. Also enclosed are two prints which will show the extent of erosion at the site.

The Clay SWCD Supervisors and staff thank you for the original award of \$30000.00 and are hoping the board can see fit to grant our request for this additional \$4563.50.

If you have any questions or need additional information please give me a call at (218)233-7994.

Sincerely,

Johnnie Peterson
District Manager, Clay SWCD



CLAY SOIL AND WATER
CONSERVATION DISTRICT

2223 E. Highway 10
Moorhead, Minnesota 56560
Telephone: 218-233-7994

MINNESOTA

SOIL AND WATER CONSERVATION DISTRICTS

EROSION CONTROL STRUCTURE

Clearing and Grubbing	\$ 3000.00
Mobilization 50%	1000.00
Structure Excavation	4599.00
Erosion Control Mat	31944.50
Corrugated Metal Pipe	720.00
TOTAL	\$41263.50
Eligible for 75% cost-share	\$30947.62

STREAMBANK AND ROADSIDE STABILIZATION

Mobilization 50%	\$ 1000.00
Channel Improvement	5450.00
Seeding and Mulching	3100.00
TOTAL	\$ 9550.00
Eligible for 50% cost-share	\$ 4775.00

Maximum cost-share allowed on both projects \$35722.62

35123

Additional cost of Mat \$ 4563.50

Total Grant-Rollover funds of \$30000.00 plus Additional request of \$4563.50 for a total of \$34563.50 or \$1159.12 under the maximum allowed



**BOARD OF WATER AND SOIL RESOURCES MEETING
HOLIDAY INN
WINONA, MINNESOTA
SEPTEMBER 27, 1989**

AGENDA

- | | |
|------------|--|
| 9:00 a.m. | <ol style="list-style-type: none">1. Call to Order2. Adopt Agenda3. Approval of Minutes of August 23, 19894. Reports<ul style="list-style-type: none">• Chairman's Report - Donald Ogaard• Executive Director's Report - Jim Birkholz• Award Presentation Committee (Loni Kemp, Jack Graba, and Bill Cofell)• Report on Theology Meeting - Bill Cofell• Report on Animal Waste Management Committee - Bill Cofell |
| 10:00 a.m. | <ol style="list-style-type: none">5. Regional Report - Dave Peterson6. Local reports, concerns and discussion<ul style="list-style-type: none">• Winona County recycling - Bea Hoffman• Stockton-Rollingstone-Minnesota City Watershed District - Jim Luehmann, President• Winona SWCD - Jim Riddle |
| 11:15 a.m. | <ol style="list-style-type: none">7. Conservation video featuring Eugene Kalmes
(the MASWCD Board of Directors will join the Board for this part of the agenda) |
| 12:00 | Lunch - buffet |
| 1:00 p.m. | <ol style="list-style-type: none">8. Environmental Agriculturalist Program - for discussion9. Study Area II Technical Office Budget - for action10. Capital Bonding request(s) - Jim Birkholz<ul style="list-style-type: none">• Wellner-Hageman structure• RIM Reserve11. Clay SWCD Emergency Cost-Share Request - Greg Larson12. Overview of rulemaking process for the Local Water Resources Protection and Management Program - Greg Larson |
| 3:00 p.m. | Adjourn |

NOMINATION FORM

BOARD OF WATER AND SOIL RESOURCES CONSERVATION INFORMATION

AWARD: _____

NOMINATOR: _____

NAME OF PERSON OR ORGANIZATION: _____

ADDRESS: _____

STATEMENT ON WHY THEY ARE DESERVING OF THIS AWARD

THE BOARD OF WATER AND SOIL RESOURCES
NOW AND THEN HONORS MINNESOTA-BASED
EDUCATION PROGRAMS, AS WELL AS PRINT
AND BROADCAST MEDIA, OFFERING TO THE
TO THE PUBLIC COVERAGE OF AIR, WATER,
SOIL, AND CONSERVATION ISSUES OF
EXCEPTIONAL MERIT



**Minnesota
Board of
Water & Soil
Resources**

Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, Minnesota 55107

(612) 296-3767

September 20, 1989

TO: Environmental Agriculturalist Ad Hoc
Committee

Loni Kemp
Bill Cofell
Jack Graba
Don Warner

FROM: Jim Birkholz, Executive Director

SUBJECT: Review of Draft Request for Proposal

Regional Offices

Northwest Region
1819 Bemidji Ave.
Bemidji, MN 56601
218-755-3963

Northeast Region
Government Service Center
320 W. 2nd Street
Room 603
Duluth, MN 55802
218-723-4752

West Central Region
611 Iowa Avenue
Staples, MN 56479
218-894-1692

South Central Region
Box 756
New Ulm, MN 56073
507-354-2196

Southeast Region
Friedell Bldg., Room 100
1200 S. Broadway
Rochester, MN 55904
507-285-7458

Southwest Region
Box 111
1400 E. Lyon Street
Marshall, MN 56258
507-537-7260

East Central Region
Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, MN 55107
612-296-3767

The attached draft (finally) is for your review prior to the Board meeting. Upon approval by the Board, we can transmit this as a suggestion to the Legislative Water Commission to get the program going.

Thanks for your help on this project!

JB:mja
Enc.
cc: Donald Ogaard

DRAFT

" LEGISLATIVE WATER COMMISSION AND THE
BOARD OF WATER AND SOIL RESOURCES

Request for proposals to carry out an Environmental Agriculturalist Education Program.

The Legislative Water Commission and the Board of Water and Soil Resources are taking applications for contracts to conduct environmental agricultural education activities which contribute to a statewide program pursuant to Minnesota Laws 1989, Chapter 326, Article 2, Section 3.

The Environmental Agricultural program is established:

- (1) to work with agricultural producers;
- (2) to advise and inform agricultural producers on the impact of certain farming practices on water quality;
- (3) to promote sustainable agriculture through use of best management practices and integrated pest management;
- (4) to demonstrate and evaluate alternative pesticide practices; and
- (5) to develop and promote farm profitability through a reduction in farm inputs.

Proposals should demonstrate ability to directly involve and assist agricultural producers. Local, on farm actions should be emphasized. Proposers should explain how their project would complement other environmentally related agricultural activities. Innovative, multi-faceted proposals are encouraged.

The ^{total} amount of contracts awarded will not exceed \$200,000 during fiscal year 1990, *the program will be repeated in 1991 with the same totals.*

Individuals or organizations interested in applying for such funds should submit proposals to: *Interested in people w/ small projects.*

Minnesota Board of Water and Soil Resources
155 South Wabasha, Suite 104
St. Paul, MN 55107

The Board will forward all applications to the Legislative Water Commission for review. Following Commission review the Board will award contracts to carry out the program.

Applications will be accepted until _____, 1989.

- *priority*
- *eligibility*
- *emphasize local on-farm practices*
- *promote*

Revised

Project: Area II Technical
Office

Contract No: BWSR 104-19

MINNESOTA BOARD OF WATER AND SOIL RESOURCES

TECHNICAL OFFICE AGREEMENT

THIS AGREEMENT, is made this 12th day of October, 1989, for the period July 1, 1989, through June 30, 1990, by and between the Minnesota Board of Water and Soil Resources, hereafter called the "BWSR" and the Area II Upper Minnesota River Basin Board, hereafter called "Area II".

WITNESSETH THAT:

WHEREAS, Minnesota Statutes, Sections 104.42 - 104.50, provides for grants-in-aid to local governmental units within the Southern Minnesota Rivers Basin Area II for the construction of floodwater retarding and retention structures, including site acquisition, design, and construction costs; and

WHEREAS, The counties within the Southern Minnesota Rivers Basin Area II have entered into a Joint Powers Agreement to coordinate and implement construction of such floodwater retarding and retention structures and for this purpose have established the Area II Upper Minnesota River Basin Board to act on their behalf; and

WHEREAS, Area II has established and staffed a technical office to supplement the engineering and technical services provided by the BWSR; and

WHEREAS, This technical office houses the BWSR's engineer and Area II personnel; and

WHEREAS, The BWSR provides annually up to 75% of the operating costs of this technical office including, but not limited to, rent, furniture, salaries, per diem, survey and testing materials, vehicles, secretarial and accounting expenses, employee and engineer travel and education expenses, and telephone services.

NOW THEREFORE, in consideration of the premises set forth herein, Area II and the BWSR hereby agree as follows:

A. AREA II SHALL:

1. Provide suitable office space for their employees and the BWSR's Engineer.
2. Operate the technical office for Fiscal year 1990 according to the technical office work plan and office budget attached and hereby made a part of this Agreement.
3. Provide 25% of Area II's annual budget for operational costs of the technical office. The annual budget for fiscal year 1990 is \$110,700.00.
4. Have its financial accounts audited annually and report the results to the BWSR.
5. Meet annually with the BWSR at a regular meeting to present new projects and inform the BWSR about its activities.
6. Request prior authorization of the BWSR before making purchases not identified in the work plan.
7. Reimburse the BWSR for expenditures which are ruled by the BWSR to be ineligible uses of state money.
8. Indemnify and save and hold the BWSR, its agents and employees, harmless from any and all claims or causes of action arising from the performance of this Agreement by Area II, its agents or employees. This clause shall not be construed to bar any legal remedies Area II may have for the BWSR's failure to fulfill any obligations pursuant to this Agreement.

B. THE BWSR SHALL:

1. Within the limits of legislative appropriation provide 75% of Area II's yearly budget but not more than \$83,025.00 from fiscal year 1990 Funds.
2. Provide, at its expense, the services of its Staff Engineer according to Minnesota Statutes, Section 104.45, who, in addition to any other duties he may have, shall manage the technical office.
3. Provide overall supervision of projects in the best interest of the state.

C. IT IS MUTUALLY AGREED THAT:

1. The books, records, documents, and accounting procedures and practices of Area II relevant to this Agreement are subject to examination by the Minnesota Board of Water and Soil Resources and the State Auditor as per Minnesota Statutes 16.095.
2. No member of any elected body, nor any employee or agent of Area II or the BWSR shall materially benefit, directly or indirectly, from any project undertaken by Area II, except as provided by law or this Agreement.
4. This Agreement may be canceled by either party upon a thirty (30) day notification.

AREA II UPPER MINNESOTA RIVER BASIN

TECHNICAL OFFICE WORK PLAN

FISCAL YEAR 1990

The Area II Technical Office will operate using the funds shown in the office budget for 1990 as follows:

The Area II office will be managed by the staff engineer employed by the Board of Water and Soil Resources (BWSR). The position will be under the direction of the Director of the BWSR.

The staff engineer is responsible for preparing the office budget and billing the ten counties for their share of the expenditures. The staff engineer will be responsible for maintaining the financial records of the technical office.

Area II will provide office space for the BWSR's Engineer, and Area II employees at 1400 East Lyon Street in Marshall, Mn.

Area II will employ an engineering technician to assist the staff engineer in the design, construction inspection, surveying, drafting, and administration of the projects undertaken by the technical office. This technician will work full time during fiscal 1990 and be under the supervision of the staff engineer.

The technician's time will be allocated as follows during Fiscal Year 1990:

1. Five months preliminary and topographic surveying of new structure sites.
2. One month Engineering Design training and other related training.
3. Five and one fourth months design, computation, and drafting for projects.
4. Three weeks annual leave.

A part-time technician will be employed as needed to assist the engineering technician with surveying and other duties .

Area II will employ a part-time clerk/accountant to perform the accounting, typing, and clerical work required by the staff engineer. The staff engineer will determine the time needed to complete the clerical work.

The employees described in the previous two paragraphs will work under the supervision of the staff engineer. The office budget also provides for per diem and expense payments to the directors and alternates of Area II for performing their duties in the operation of the Area II Technical Office. The office budget plan also provides for general liability insurance, workmen's compensation, honesty bonds, theft and casualty insurance, and automobile insurance. Area II also carries medical and dental insurance for the technician.

The office budget shown is derived from actual costs of the previous year with a small adjustment for inflation. Also included is an item to fund seminar attendance for the staff Engineer. This will be used to pay for seminars necessary for continuing education in dam safety, flood plain management, structure design, and other courses concerned with the staff engineer's duties.

The office budget plan allows for the purchase of a replacement vehicle for the 1985 Celebrity automobile which has over 95,000 miles and needs tires and transmission work. It also allows for the purchase of additional software to be used for engineering design and accounting duties for Area II.

The item will provide for expendable supplies such as lath, stakes, paint, etc., as well as laboratory tests and maintenance of the survey and testing equipment.

The amount budgeted for geological testing will allow for the contracting of mapping, drilling, sampling and testing of proposed structure sites, and other testing required for new projects.

AREA II UPPER MINNESOTA RIVER BASIN PROJECTS, INC.

TECHNICAL OFFICE BUDGET-FISCAL YEAR 1990

EMPLOYEE EXPENSES

Engineering Technician	\$25,500.00
Part Time Technician Salary	6,000.00
Clerical and Accounting Salaries	3,500.00
Employee Expenses	600.00
Employee Education	1,500.00
Employer Share FICA	2,600.00
Employee Medical Insurance	1,000.00

Subtotal \$40,700.00

DIRECTOR EXPENSES

Director's Per Diem	\$6,500.00
Director's Expenses	3,000.00
Insurance and Bonds	6,000.00
Professional Services	1,500.00
Meeting Expenses	500.00

Subtotal \$17,500.00

OFFICE EXPENSES

Rent and utilities	\$4,000.00
Computer Maintenance	800.00
New Software	2,000.00
Telephone	1,500.00
Postage	600.00
Office & Field Supplies	2,000.00
Automobile Expense	3,500.00
Engineer Seminars	1,000.00
Miscellaneous	500.00

Subtotal \$15,900.00

PROJECT EXPENSES

Geologic Testing <i>(Revolving Fund)</i>	\$21,000.00
Project Expense	3,000.00

Subtotal \$24,000.00

Replacement Vehicle	\$12,600.00
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Subtotal \$12,600.00

GRAND TOTAL \$110,700.00

State Share \$83,025.00 (75%)

Local Share \$27,675.00 (25%)

IN WITNESS WHEREOF, the parties have caused this agreement to be duly executed intending to be bound thereby.

Approved:

AREA II UPPER MINNESOTA RIVER BASIN BOARD

Authorized Signature

Date

MINNESOTA BOARD OF WATER AND SOIL RESOURCES

Authorized Signature

Date

ATTORNEY GENERAL

Authorized Signature

Date

COMMISSIONER OF ADMINISTRATION

Authorized Signature

Date

COMMISSIONER OF FINANCE

Authorized Signature

Date

NON-BUILDING REQUEST
1989-91 CAPITAL BUDGET SIX-YEAR PLAN - PROGRAM DETAIL
DOLLARS IN THOUSANDS (137,522 = 138)

DRAFT

Agency: Water and Soil Resources, Board of Location: Statewide

Agency Priority: 1 Biennium Requested: 1990-92

Prior Commitment: ☐ No ☒ Yes Laws 1989, Ch 300, Sec 12 \$1,500

Additional Prior Commitment(s) Laws 1987, Ch 400, Sec 25 \$9,000

Previously Requested: ☐ No ☒ Yes When? 1989

Program Title: REINVEST IN MINNESOTA (RIM), RESERVE PROGRAM

Program Description:

The RIM Reserve Program is part of the overall RIM initiative which is designed to enhance fish and wildlife habitat on public and private lands in order to promote hunting and fishing, tourism, and recreational opportunities. Through the RIM Reserve Program, the state purchases, by easement, the cropping and grazing rights on private lands. In return, the landowner agrees to a conservation plan for the land including the establishment of permanent vegetation (grass, trees and/or shrubs), or for drained wetland basins, to restore the wetland. Easements are for terms of 20 years or perpetual with statutory priority given to perpetual easements. Eligible land categories are prioritized and criteria for enrolling lands are defined each year by the BWSR. Current eligible categories are: marginal agricultural land, drained wetlands (which must be restored), windbreaks for the purpose of living snowfences along roads, cropland in sensitive groundwater areas, cropland adjacent to protected waters, certain steep hillside pastures and certain abandoned building sites and woodlots on agricultural land. These categories represent the fragile, marginal lands in Minnesota's agricultural areas.

This program is administered locally by the 91 Soil and Water Conservation Districts (SWCDs). Direction is provided to the SWCD by local screening committees made up of agency representatives as well as conservation group representation which set priority areas within the SWCD as well as assist the SWCD in prioritizing applications.

Program Impact:

The RIM Reserve Program has enrolled approximately 28,000 acres through F.Y. 1989. Assuming a \$12 million easement funding level in the 1991-92 fiscal years, we can anticipate an additional 12,000 to 14,000 acres of enrollment.

As a land use management tool, the RIM Reserve Program has been very successful. The program's three main goals are: (a) erosion and sediment control; (b) enhance fish and wildlife habitat, and (c) improve water quality. These goals are attained by retiring cropland, pastureland, restoring drained wetlands, and planting windbreaks (living snowfences) along roadways experiencing snow drift problems. Legislation was passed in the 1989 session making groundwater recharge areas and riparian croplands eligible for enrollment. Certain of these areas contribute agriculture chemicals and other pollutants directly to water resources. By enrolling these lands which are identified as sensitive in the RIM Reserve Program, fish and wildlife habitat is improved at the same time that ground and surface water quality is enhanced. This program is important to offer landowners an alternative to attempting to farm marginal cropland in sensitive areas. The RIM Reserve Program provides long term protection and enhancement of the natural resources through 20 year or perpetual easements.

Type of Request	Project Category
☒ Acquisition of Assets	☐ Health and Safety
☒ Improvement of Assets	☐ Program Efficiency
☐ Grant in Aid	☒ Program Enhancement

CHANGES IN OPERATING COSTS

Change in Compensation.....	\$ -0-
Change in Complement.....	\$ -0-
Change in Other Expense.....	\$ -0-
Net Change in Operating Cost...	\$ -0-

CAPITAL COSTS

Land Acquisition.....	\$ 9,458
Construction/Development.....	\$ 2,365
Professional Fees and Services.	\$ 177
Grants in Aid.....	\$
Other.....	\$
TOTAL PROGRAM COST.....	\$ 12,000

Program Data Prepared By: James Birkholz

GOVERNOR'S RECOMMENDATION:

\$12,000

million

9/22/89

NON-BUILDING REQUEST
1989-91 CAPITAL BUDGET SIX-YEAR PLAN - PROGRAM DETAIL
DOLLARS IN THOUSANDS (137,522 = 138)

Agency: Water and Soil Resources, Board of Location: Brown County

Agency Priority: 2 Biennium Requested: 1989-91

Prior Commitment: ☒ No ☐ Yes Laws _____, Ch _____, Sec _____ \$ _____

Additional Prior Commitment(s) Laws _____, Ch _____, Sec _____ \$ _____

Previously Requested: ☒ No ☐ Yes When? _____

Program Title: Wellner-Hageman Dam

Program Description:

The Wellner-Hageman dam is a multi-purpose structure planned for construction on Mound Creek in southwestern Brown County in the Cottonwood River basin. Preliminary investigation and engineering has been completed under the Southern Minnesota Rivers Basin Study Area II Flood Control Program (Minn. Stat. Sec. 104.42-.50). The Area II Program is administered by the Board of Water and Soil Resources and provides 75% state cost-share grants to assist local units of government within Area II in building flood control structures. Preliminary design plans and detailed construction cost estimates are scheduled for completion by January 15, 1990. State bond funds are proposed for financing the construction costs of the Wellner-Hageman dam because the current Area II Program general fund allocation of \$199,500 per fiscal year is not adequate to build a project of this magnitude within a realistic time frame. The total estimated project cost is \$2,000,000. The requested \$1,500,000 would fund approximately 85% of the estimated construction costs of \$1,750,000. The remaining 15% of construction costs would be shared locally among the nine counties comprising Area II.

Program Impact:

The Wellner-Hageman project will provide significant flood control, water supply, recreation, tourism, and economic benefits to the area. The site has tremendous floodwater storage capacity, enabling the dam to reduce 50-year flood discharges by 90%. The dam will create a 70-acre permanent lake having a maximum depth of 29 feet. The lake will have a public beach, public boat access, and be stocked with game fish. Brown County is planning to add improved overnight camping facilities. The dam will be designed to have an effective life of 100 years. Brown County will be responsible for operation and maintenance. About 290 acres of land is being acquired by Brown County for the dam and adjacent park area. This public land will adjoin the existing Cottonwood County Red Rock Falls Park and be linked by walking trails.

Type of Request	Project Category
☐ Acquisition of Assets	☒ Health and Safety
☐ Improvement of Assets	☐ Program Efficiency
☒ Grant in Aid	☒ Program Enhancement

CHANGES IN OPERATING COSTS

Change in Compensation.	\$ -0-
Change in Complement.	\$ -0-
Change in Other Expense	\$ -0-
Net Change in Operating Cost.	\$ -0-

CAPITAL COSTS

Land Acquisition.	\$ _____
Construction/Development.	\$ _____
Professional Fees and Services.	\$ _____
Grants in Aid	\$ 1,500
Other	\$ _____

TOTAL PROGRAM COST \$ 1,500,000

Program Data Prepared By: James Birkholz

GOVERNOR'S RECOMMENDATION:

\$1.5 million

Funding Source: Direct Appropriation _____
Taxable Bonds _____ Tax Exempt Bonds ☒

CLAY SWCD COST-SHARE PROJECT

Nature of Project:

Grade stabilization structure and associated shaping at the outlet of Clay County Ditch #35 where it empties into the Buffalo River.

Project Cost:

- Total cost (*engineers estimate*) \$ 45,434
- Less ineligible components (channel improvements) 4,142
- Adjusted cost 41,292
- State cost-share @ 75% 30,969
- Local share 14,465
 - (Approximate) apportioning of local share:
 - Ditch 35 assessment area 17.3%
 - Oakport Township 4.4%
 - Clay County 2.2%
 - Watershed District 1.1%

Landowner to donate land in project area

Technical Assistance:

Furnished by Clay SWCD

Funding of Project:

BWSR approved \$30,000 of cost-share roll-over funds in December of 1988.

Current Status:

- Bids were let -
Sellin Brothers awarded project as low (of 2) bidder.

Sellin Brothers bid \$ 50,813.50
- Letter received from Clay SWCD dated 9-6-89; requested additional funding to compensate for change in material vendor. Contractor is to absorb the cost of removing 1,100 yards of displaced soil @ 1.30 per yard (Information supplied by Clay SWCD) \$ 4,564
\$ 1,430

table

BOARD OF WATER AND SOIL RESOURCES

Notice of Solicitation of Outside Information or Opinions Regarding Proposed Rule Governing Local Water Resources Protection and Management Program

Notice is hereby given that the Board of Water and Soil Resources is seeking information or opinions from sources outside the agency in preparing to propose the adoption of the rule governing grants to counties to implement comprehensive local water plans. The adoption of the rule is authorized by Minnesota Statutes, Laws of 1989, Chapter 326, which requires the agency to adopt a rule which specifies the process and priorities for awarding grants to counties for implementing comprehensive local water plans.

The Board requests information and opinions concerning the subject matter of the rule. Interested persons or groups may submit data or views on the subject matter of concern in writing or orally. Written statements should be addressed to: **Greg Larson, Board of Water and Soil Resources, 155 South Wabasha Street, Suite 104, St. Paul, Mn. 55107.** Oral statements will be received during regular business hours over the telephone at 296-3767 and in person at the above address.

All statements of information and opinions shall be accepted until October 27. Any written material received by the Board of Water and Soil Resources shall become part of the rulemaking record to be submitted to the attorney general or administrative law judge in the event that the rule is adopted.

September 27, 1989

Jim Birkholz, Director
Board of Water and Soil Resources



WINONA COUNTY TOUR

SEPTEMBER 26, 1989

**BOARD OF WATER
AND
SOIL RESOURCES**

MINNESOTA BOARD OF WATER AND SOIL RESOURCES
TOUR OF SOUTHEASTERN MINNESOTA
SEPTEMBER 26, 1989

ITINERARY

8:30 AM	Tour Orientation	(Holiday Inn, Winona)
8:45 AM	Bus Tour	(Garvin Brook RCWP)
9:15 AM	Coffee Break & Discussion of RCWP	(Farmers Park)
9:40 AM	View Sinkhole & Animal Waste Facility	(Clarence Ressie Farm)
10:15 AM	View Typical Bedrock Formations	(Quarry)
10:30 AM	Discussion of Ground Water/Nitrogen Study	(Eugene Kalmes Farm)
11:15 AM	Sensitive Ground Water Areas and Agricultural Practices (Whitewater State Park Interpretive Center)	
NOON	Lunch and History of the Whitewater Valley	(Interpretive Center)
1:00 PM	Bus Tour of Winona County to Pickwick	
2:30 PM	Pickwick Site and Dedication Ceremony	
4:00 PM	Buses to Dakota	
4:30 PM	Discuss Water Bill & Environmental Legislation with Senator Morse (Morse Apple Farm, Anne Morse to Describe Operation)	
5:30 PM	Buses to Holiday Inn	(Winona)
6:30 PM	To Julius Wilke for Dinner	
??	Kalmes House - Rollingstone Gene's Birthday (?? years)	

TOUR PRESENTERS

Bus Guides:

Winona Co. SWCD

- Jim Stewart, District Manager
- Daryl Buck, Conservation Planner
- Nancy Pagel, District Technician
- Lauraine Heiden, District Secretary

Farmers Park:

- Neil Broadwater, Winona Co. Extension Director

Clarence Ressie Farm:

- Don Haack, Winona Co. SWCD Engineer
- Clarence Ressie

Quarry:

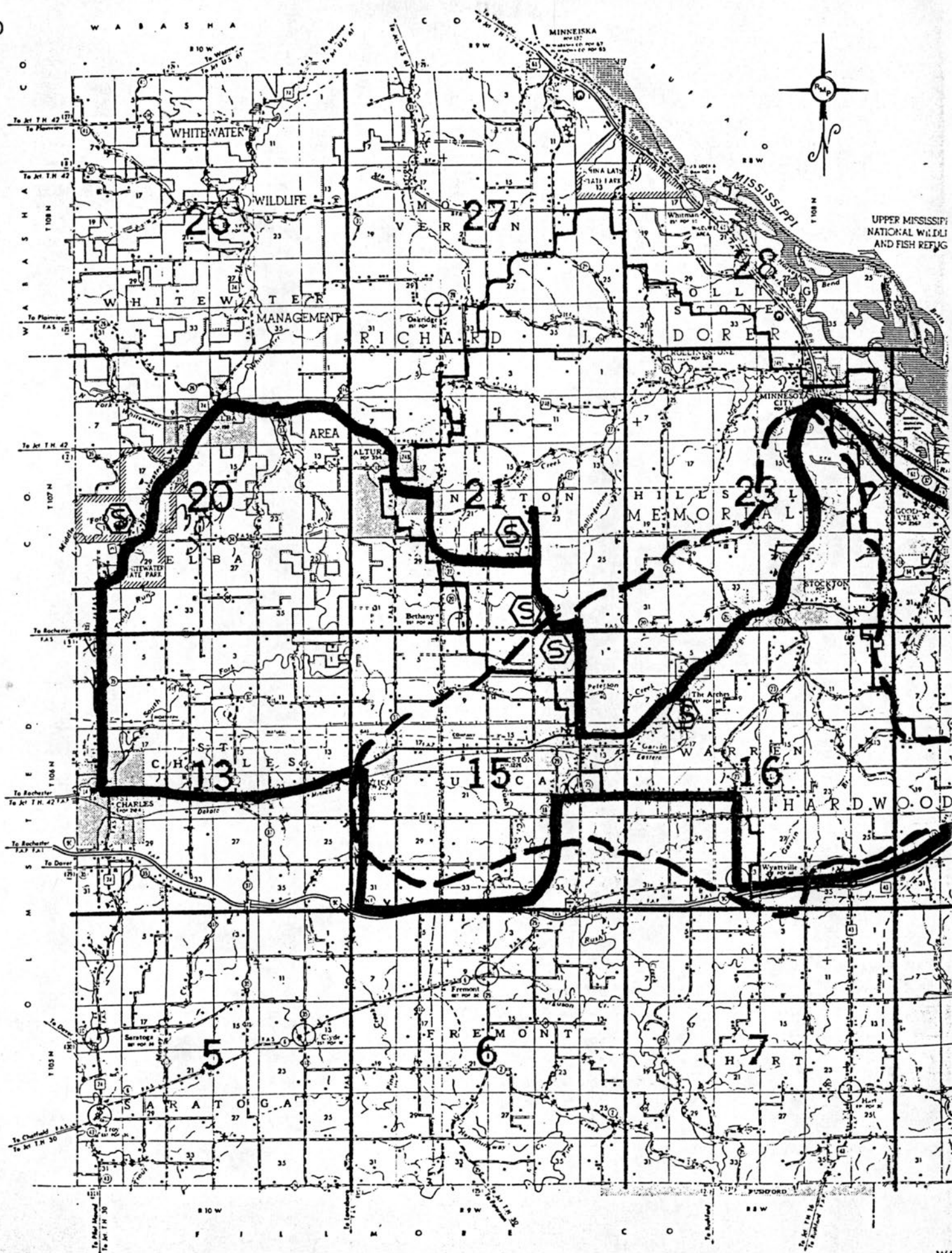
- Greg Larson, BWSR Staff

Eugene Kalmes Farm:

- Gyles Randall, University of Minnesota/
South Central Experiment Station
- Eugene Kalmes

Whitewater Park:

- Geology Department, Winona State University
- Dick Ness, Land Stewardship Project
- Dave Palmquist, Naturalist Whitewater State Park



————— TOUR ROUTE

----- GARVIN BROOK WATERSHED

————— STOCKTON-ROLLINGSTONE
MINNESOTA CITY WATERSHED
DISTRICT



TOUR STOPS



RUSSELL CHURCHS AG-WASTE

Russell Churchs agricultural waste storage system will provide storage capacity for waste and runoff from a 200 animal dairy operation. The cattle are kept on a open concrete lot and loafing barn and milking is done in a "hearing bone" parlor. Storage is provided for all animal wastes, normal runoff and two 25 year 24 hour storm events. Waste is stored during a 7 month winter period and a 5 month summer storage period, with application of waste to the land in spring and fall.

The actual manure storage system consists of three parts; the storage tank and adjacent access and a support apron; a clean water surface runoff diversion and a subsurface drainage system to protect the tank. The storage tank is made of prefabricated panels 5 foot wide by 8 foot 3 inches high with 4 foot by 5 foot spread footings. The floor and support/access apron are poured in place concrete. The tank measures 265 foot long by 80 foot wide. Built in 1982, cost of this ag-waste system was \$130,240.00.

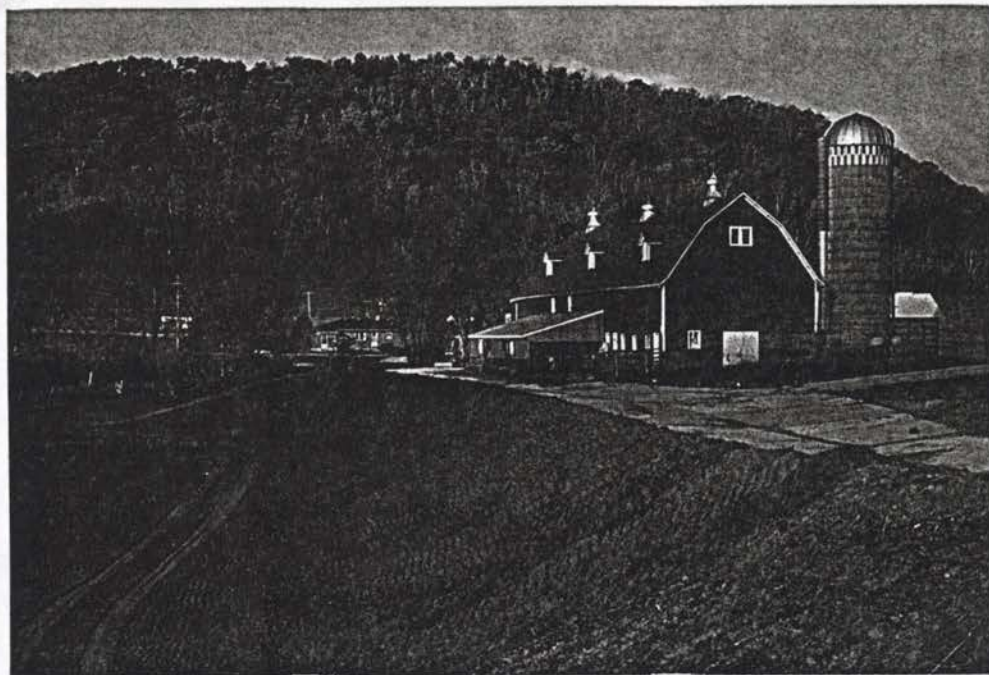
RAY JOHNSON AG-WASTE

Ray Johnson's ag waste installation consists of a system for collecting precipitation and feedlot run-off in a storage basin, where the liquids are separated from the solids and discharged onto a grassed filtering area. The solids are stored in the collection area and loaded and spread on cropland in a conventional manner when field conditions are suitable.

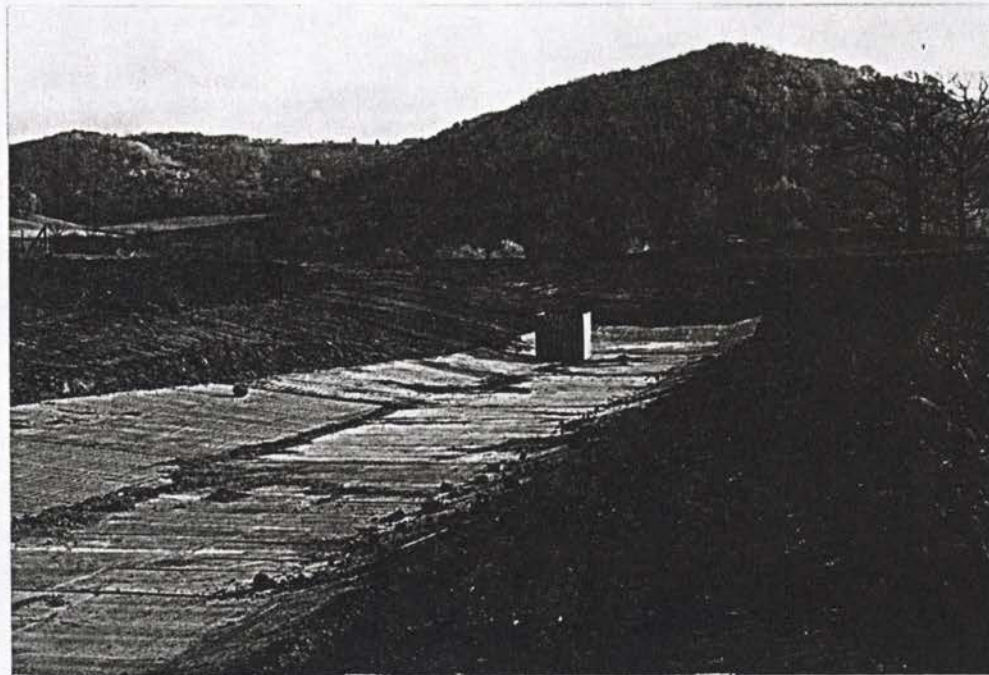
The installation consists of an embankment constructed along the downstream edge of the feedlot. The resulting storage basin prevents lot run-off from discharging into an existing detention structure and Garvin Brook less the 1000 feet downstream. Approximate cost was \$57,000.00.

Quantity's:

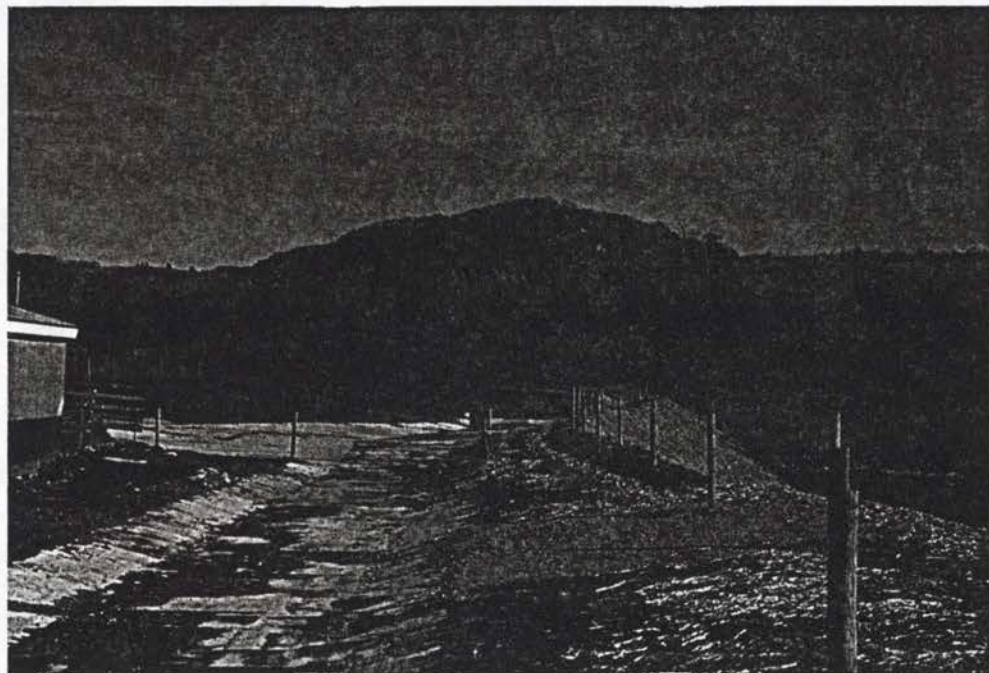
- 2,148 cu. yd. common excavation
- 1,570 cu. yd. earthfill, dozer compacted
- 4,740 cu. yd. earthfill, mechanical compacted
- 4,200 sq. ft. waterway constructed
- 1.55 acres salvaging and spreading topsoil
- 6,500 sq. ft. lot shaping and grading
- 1.40 acres seedbed preparation
- 1.40 acres seed and seeding
- 1.40 acres mulching and anchoring
- 70 rods fencing
- 380 lin. ft. 8-inch pvc
- 14,610 sq. ft. 3,500 p.s.i. concrete
- 16,070 sq. ft. welded wire mesh
- 212 cu. yd. crushed rock
- 271 cu. yd. sand/gravel
- 537 bo. ft. treated lumber



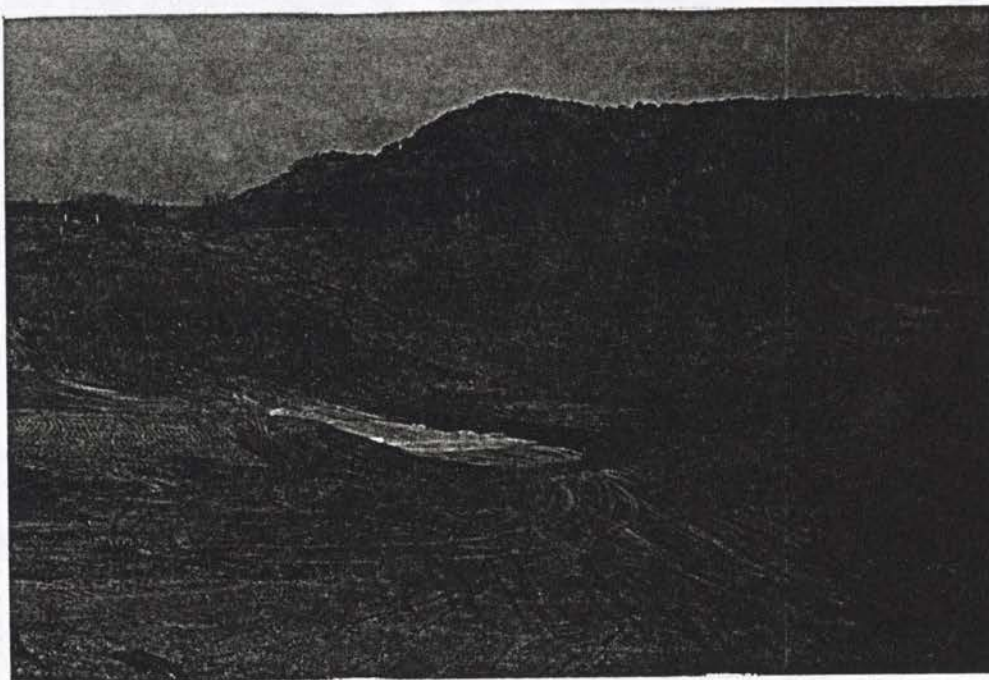
STORAGE DIVERSION EMBANKMENT AT
DOWNSTREAM EDGE OF FEEDLOT



TREATED LUMBER SLATTED INTAKE TO 8" X 400 FT.
PVC PIPE. LIQUIDS-SOLIDS SEPARATION UNIT



CONCRETE LINED CHANNEL AND BOTTOM FOR OPERATION,
MAINTENANCE AND SOLIDS REMOVAL



DISCHARGE POINT OF 8 - INCH PVC PIPE,
PICKET DAM AND GRASSED FILTERING AREA

GARVIN-BROOK RCWP

Largely due to the existence of the Stockton-Rollingstone-Minnesota City Watershed District the Garvin-Brook rural clean waters program was initiated. Its one of twenty active pilot projects in the United States however, its unique because it not only addresses surface water but also groundwater. To date \$1,747,000 has been allocated resulting in 96 total contracts. Administered by ASCS with SCS acting as its technical agency, landowners can receive \$50,000 per landowner not to exceed 75% to install best management practices. The following are some interesting facts concerning the Garvin-Brook RCWP.

- 218 farms in watershed
- Prairie du Chien - Jordan aquifer provides majority of well water in Garvin-Brook Watershed
- Virtually all water for commercial, agricultural and domestic uses comes from groundwater aquifers
- 75% cost-share @ \$50,000 maximum/landowner
- 46,516 acres in watershed
 - 67% cropland - 31,282 ac.
 - 17% woodland - 8,075 ac.
 - 9% pastureland - 4,081 ac.
 - 2% - urban land - 930 ac.
- Major crops
 - field corn
 - forage crops
 - small grains
- Watershed characteristics
 - A. Surface watershed
 - narrow ridges
 - deep, broad valleys
 - 400' average slope length
 - silt loam soils
 - B. Groundwater watershed
 - broad ridges
 - narrow drainageways
 - narrow valleys
 - 200' average slope length
 - silt loam soils

- AGNEPS completed for surface watershed - 6/85
- Critical area designation
 - A. Surface watershed
 - sub-watersheds with high and moderate sediment loads and moderate nitrogen and phosphorus loads
 - 13,059 ac. critical area designation
 - 7,574 ac. cropland (3,105 ac. corn)
 - B. Groundwater watershed
 - prioritized on potential for groundwater contamination to Prairie du Chien - Jordan aquifer by nitrate-nitrogen
 - 12,681 acres
- Area identified as needing treatment
 - cropland areas annually planted to row crops within critical areas and areas with sinkholes and abandoned wells
 - 20,255 acres in cropland in critical areas
- Water quality problems in Garvin-Brook
 - A. Adverse effects on surface water bodies (Garvin-Brook, Stockton Valley Creek, Mississippi River)
 - siltation
 - turbidity
 - lack of coarse bottom substratas
 - unfavorable water temperatures
 - flooding
 - streambank degradation
 - sedimentation
 - B. Karst Geology - mildly acidic groundwater dissolves carbonate bedrock producing groundwater contamination
 - enters aquifer through
 - limestone fractures
 - sinkholes - 74 identified in watershed
 - older or abandoned wells
 - surface water entering aquifer is high in contaminants:
 - agricultural and human waste
 - agricultural chemicals
 - agricultural fertilizers
 - calcium
 - magnesium
 - bicarbonate irons

- Project Goals

A. Surface watershed

- increase recreational potential of Garvin-Brook

Objectives:

- decrease sediment loading by 50%
- reduction of 5981 tons of sediment for a 25 year 24 hour storm
- decrease turbidity violations from 100% to below 15%
- decrease fecal coliforms bacterial violation from 79% to below 40%

B. Groundwater watershed

- decrease biological and chemical health related pollutants entering groundwater aquifers
- lower health related nitrate-nitrogen values in Karst areas
- reduce other health related pollutants

Objectives:

- reduce NO-N (nitrate-nitrogen) load to acceptable drinking water standard (10PPM)

- Major emphasis of program

- conservation tillage
- fertilizer management
 - nitrogen budgeting
 - split nitrogen application
- proper agricultural waste management
 - waste management system
 - proper land application of ag waste

RCWP COST-SHARING - HOW DOES IT COMPARE?

If you own land in the Garvin-Brook Watershed, the Rural Clean Water Program offers you an extraordinary amount of cost-sharing to apply water quality and soil conservation practices on your farm. The following table summarizes how the RCWP compares with the annual ACP cost-sharing.

Practice	Minimum Practice Lifespan	% of the total cost paid to landowner	
		RCWP	ACP
Permanent Vegetative Cover pasture and hayland planting	5 years	75% up to \$50,000	None
Manure Storage and Barnyard Runoff Control	10 years	75% up to \$50,000	75% up to \$3,500
Terraces including tile	10 years	75% up to \$50,000	75% up to \$3,500
Permanent Vegetative Cover on Critical Areas well plugging sinkhole sealing	5 years	75% up to \$50,000	None
		75% up to \$50,000	75% up to \$3,500 per sinkhole
Sediment Retention, Erosion or Water Control Structures	10 years	75% up to \$50,000	75% up to \$3,500 per structure
Conservation Tillage 30% ground cover no-till	5 years	No acreage Limit	80 Acre Limit
		\$10.05/acre	None
		\$15.00/acre	\$15.00/acre
Tree Planting	10 years	75% up to \$50,000	65% up to \$3,500/yr.
Timber Stand Improvement	10 years	75% up to \$50,000	65% up to \$3,500/yr.
Contour Stripcropping fence removal	5 years	\$11.06/acre	\$11.00/acre
		\$ 2.81/rod of fence removed	None
Stream Protection fencing, shaping, seeding rock riprap	10 years	75% up to \$50,000	75% up to \$3,500/yr.
		75% up to \$50,000	None
Woodland Access Road	10 years	75% up to \$50,000	None
Fertilizer Management manure application	5 years	\$3.99/acre	None
Grazing Land Protection	10 years	75% up to \$50,000	None
Sod Waterways	10 years	75% up to \$50,000	75% up to \$3,500/yr.
Diversions	10 years	75% up to \$50,000	75% up to \$3,500/yr.
Maximum Payment/Farm		\$50,000	\$3,500/year

ILLUSTRATION OF PRACTICE COSTS

GARVIN-BROOK PROJECT

<u>Practice</u>	<u>Total Cost</u>	<u>RCWP</u>	<u>County</u>	<u>Landowner</u>
Manure Storage and Barnyard Runoff Control	\$35,000.00	\$26,250.00	\$5,250.00	\$3,500.00
Grassed Waterway	2,500.00	1,875.00	0	625.00
Sinkhole Sealing	5,000.00	3,750.00	750.00	500.00
Conservation tillage (60 acres, 3 years)	2,700.00	1,809.00	0	891.00
Waste Utilization (60 acres, 3 years)	957.60	718.20	0	239.40
Contour Strips (25 acres)	368.75	276.50	0	92.25
Total Cost	\$46,526.35	\$34,678.70	\$6,000.00	\$5,847.65

CLARENCE RESSIE AG WASTE SYSTEM AND SINKHOLE

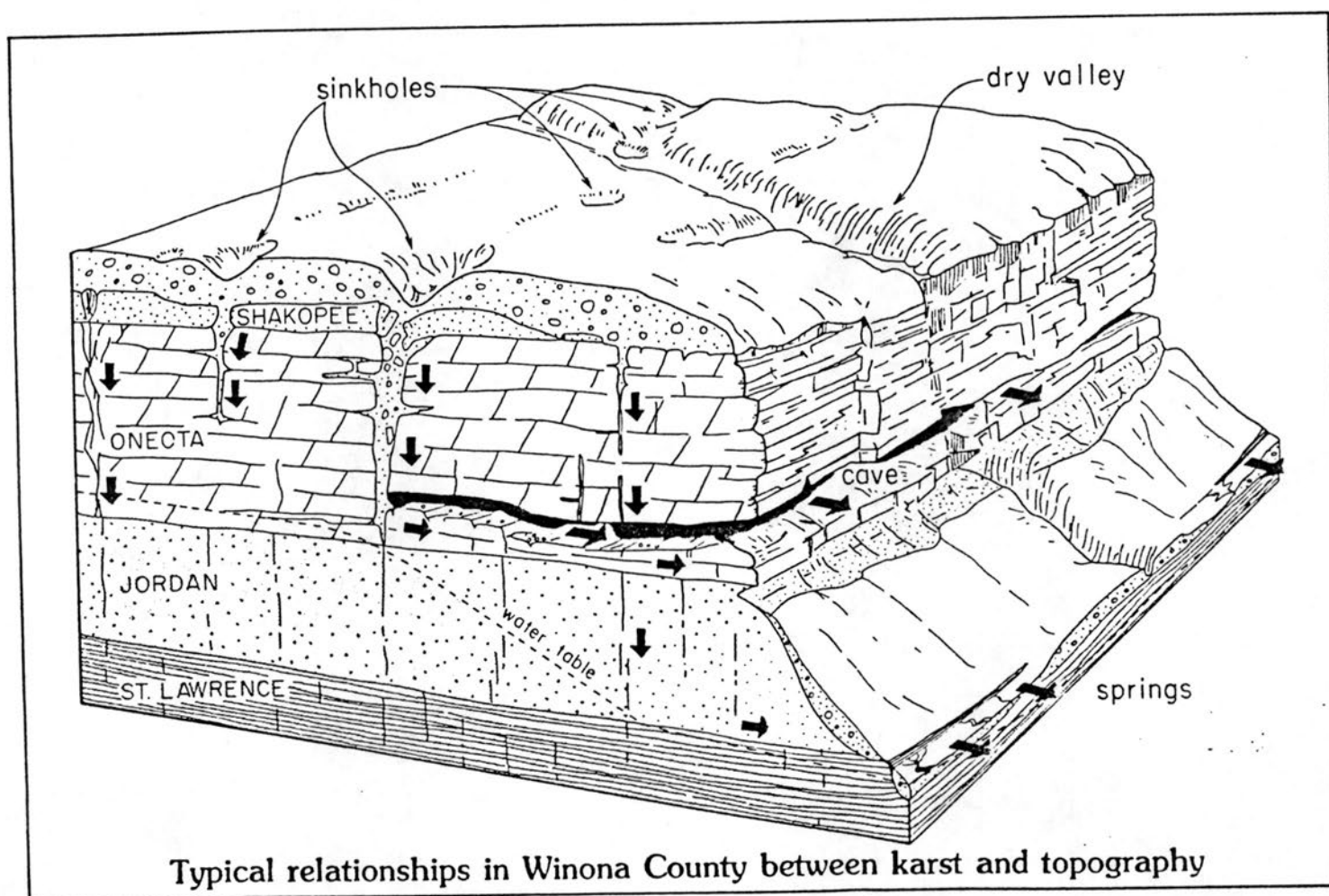
- Started looking for a solution to waste handling problem in 1980.
- Solution to a storage facility was complicated by the close proximity to the large and active sinkhole and by the topography of the site.
- 14 acres watershed from the adjacent cropland had to be diverted around the site.
- Facility stores 8 months of waste and runoff water from:
 - 60 dairy cows
 - 60 heifers
 - 20% added for bedding
 - Runoff from a Q25 storm from the buildings and feedlot
 - Clean water from the cropland and some of the building site is diverted from the storage tank
- Dirty water runoff is all diverted into the storage tank
- The Tibbits Tanks was installed in 1986
 - inside diameter 118.7' x 10' deep
 - storage volume, 105,000 cubic feet, or 786,000 gallons
 - delivery system is by hydraulically operated piston pump and a 12" PVC pipeline
 - total cost \$83,000
 - Sinkhole is to be cleaned out and a diversion will be built around it to prevent any surface runoff from entering the sinkhole
- Waste is applied to 62 acres of corn according to the waste utilization plan developed for the owner

Winona County is located at the eastern edge of the driftless region of the upper Mississippi Valley. The uplands are part of regional dissected plain. The plain consists of sedimentary rock formed from sediments deposited by former inland seas. Differences in elevation between ridge tops and flood plains range to as much as 600 feet. Extremes in elevation range from 1325 feet near St. Charles to 635 feet on the flood plain of the Mississippi River at LaCrescent.

The uplands consist of a high narrow ridge and a lower lying dissected plain. Narrow spurs radiate from the main ridge which is dissected in places into low mesa shaped hills. The lower lying plain comprises most of the county. This formerly nearly level plain has been carved into an intricate pattern of deep valleys and ridges.

In the eastern part of the county, ridges are narrow. Ridge tops are mostly sloping to moderately steep and long and smooth. Slopes along creeks and rivers in the eastern and northern part of the county are steep to very steep. In the western part the ridge tops are broader and gently sloping to strongly sloping. Narrow drainageways dissect the upland surface in the western part of the county. Adjacent to the high ridge in the St. Charles-Utica area the plain is weakly dissected. In the southwestern part of the county, the landscape is less dissected and creeks are less incised than in the northern and eastern parts of the county.

FIGURE 1
KARST GEOLOGY



Typical relationships in Winona County between karst and topography

BEDROCK AQUIFERS IN WINONA COUNTY

ROCK UNIT		AQUIFER SYSTEM	WATER-LEVEL RELATIONSHIPS
GALENA FORMATION		UPPER CARBONATE AQUIFER	
DECORAH SHALE PLATTEVILLE FM. GLENWOOD FM.		CONFINING LAYER	
ST. PETER SANDSTONE		ST. PETER AQUIFER	
SHAKOPEE FORMATION	PRAIRIE DU CHIEN GROUP	PRAIRIE DU CHIEN-JORDAN AQUIFER	
ONEOTA DOLOMITE			
JORDAN SANDSTONE			
ST. LAWRENCE FORMATION		CONFINING LAYER	
FRANCONIA FORMATION		FRANCONIA-IRONTON-GALESVILLE AQUIFER	
IRONTON & GALESVILLE SANDSTONES			
EAU CLAIRE FORMATION		CONFINING LAYER	
MT. SIMON SANDSTONE		MT. SIMON AQUIFER	
PRECAMBRIAN		UNKNOWN ??	

WATER QUALITY RESEARCH PROGRAM

CENTER FOR AGRICULTURAL IMPACTS ON WATER QUALITY

To meet the challenges of clean water with a productive agricultural system and considering the diversity of research and educational groups involved with water, a Center for Agricultural Impacts on Water Quality was formed within the College of Agriculture, University of Minnesota. The Center consists primarily of an interdisciplinary faculty steering committee with a Director and an industry/agency consultative committee. The steering committee is composed of individuals in the Departments of Agriculture and Applied Economics, Agricultural Engineering, Agronomy and Plant Genetics and Soil Science and in the Branch Stations but also interacts with those from Entomology, Plant Pathology, Forest Resources and Geology.

Objectives of the Center

The Center's objectives include: 1) minimizing groundwater contamination by agricultural chemicals, 2) developing and improving managerial procedures that reduce agricultural chemical use, 3) increasing our understanding of the behavior and longevity of agricultural chemicals in soil and groundwater systems, and 4) assessing the social and economic impacts of management practices.

Study being done at Kalmes farm is determining the effect of four tillage systems (moldboard plow, chisel plow, ridge-plant, and no tillage) on the movement/accumulation of four pesticides in the soil profile. The pesticides (alachlor 'Lasso', atrazine, dicamba 'Banvel', and terbufos 'Counter') are applied to all plots at planting. Pesticide movement is being monitored through soil sampling in 6-inch increments six times during the season and by stainless steel suction lysimeters installed at 5' and 7.5' depths in each plot.

WHITEWATER WATERSHED

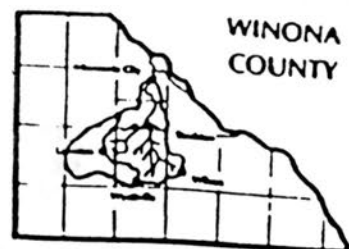
The Whitewater River rises in three branches (Middle, South and North) between the southeastern Minnesota cities of Rochester and Winona. It drains fertile, rolling farming country around the smaller towns of Plainview, Dover, Eyota, St. Charles, Viola, Utica and Elba then flows northeastward to the village of Weaver where it fans out over the marshy bottoms (Weaver bottoms) and drops much of its sediment before entering the Mississippi. Historically, Whitewater has offered fur, fish and fowl. This is still evident today with its abundant wildlife and waterfowl however, today recreation and river transportation is a billion dollar industry.

Water quality degradation, particularly sedimentation from eroding farmland is the number one problem affecting the Whitewater watershed. The heavy load of fine sediment emptying directly into the Weaver bottoms after a heavy rain carries as much sediment as any stream in the state of Minnesota.

Since May, 1987, the U.S. Fish and Wildlife Service in cooperation with Winona, Olmsted, and Wabasha Soil and Water Conservation Districts have initiated a three year pilot watershed project. This cooperative effort centers on activities to enhance the Middlebranch of the Whitewater watershed. Its three goals are to: 1) assist farmers in developing conservation plans that specify erosion control measures and implementation deadlines; 2) promote retirement of marginal, erodible lands through the



MINNESOTA



WINONA
COUNTY

THE GARVIN BROOK

Rural Clean Water Project

The Garvin Brook Rural Clean Water Project (RCWP) was begun in 1981 as a federally funded demonstration to provide financial and technical assistance to agricultural land owners and operators. This assistance has been used to install and maintain best management practices (BMP'S) to control agricultural non-point source pollution for the improvement of surface and groundwater in the Garvin Brook Watershed of Winona County. The Extension Service is responsible for educational programs and for the technical assistance in fertilizer and pesticide management.

Since 1985, farmer cooperators have been involved in University of Minnesota/Winona County Extension Office nitrogen rate management plots. As a result, educational programs have been conducted reaching over 300 farmers and over 1000 people representing urban audiences, groups and classes. The information has been used by University Soil Scientists to help refine University N fertilizer recommendations for SE Minnesota. Plots are clearly showing that credits can be given to previous crop and manure application in determining nitrogen rates.

A survey of 50 farmers with 22 responding indicated a savings of up to \$30.00 per acre for N, and from \$30.00 to \$50.00 per acre for P & K, because of using Extension fertilizer recommendations. In a spring of 1989 survey, 67% of the landowners indicated they have changed their management practices as a result of the RCWP program. A total of 39% indicated they have decreased the quantity of fertilizer applied. No one has increased fertilizer application.

A quarterly newsletter sent to all landowners in the project area has been written on timely subjects for the past 7 years. People have a heightened awareness of water quality issues in Winona County as a result of Extension's efforts in the Garvin Brook RCWP and many are doing something about it.

**WINONA COUNTY EXTENSION SERVICE
RCWP DEMONSTRATION ACTIVITIES
SUMMER 1989**

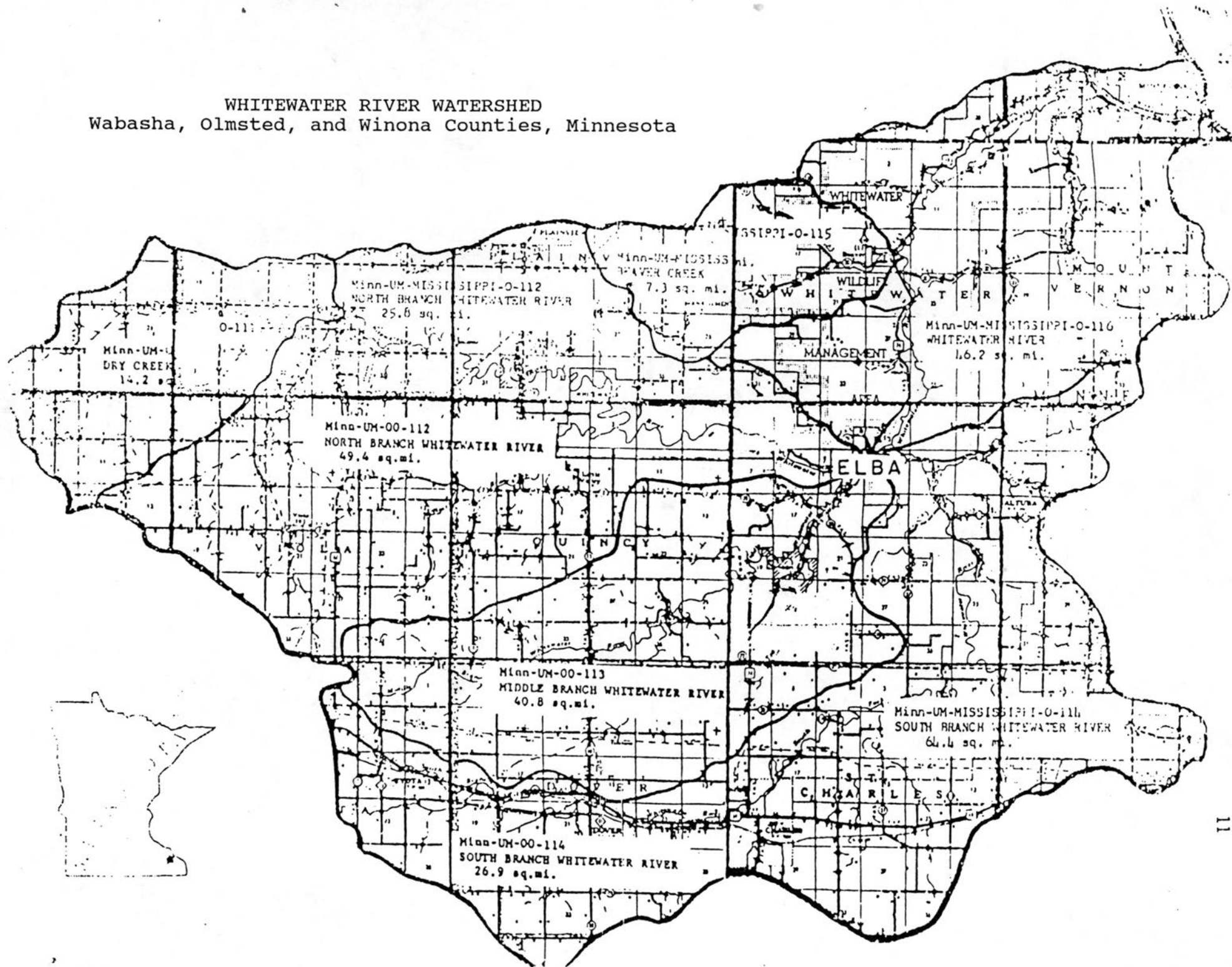
1. One nitrogen rate plot looking at replicated N rates from 0 to 240 lbs. Yields will be checked and nitrate/nitrogen residues down to 5 ft. level in cooperation with University of MN Extension Soil Scientist. It is a comprehensive study in SE Minnesota to develop a soil test to predict nitrogen rates for SE Minnesota.
2. Continue to work with over 50 farmers cooperating in a split N program on approximately 5000 acres. Each farmer is advised on N rate, taking into account N credits from manure application and previous crop. Each farmer is also encouraged to use proper selection of pesticides and applied at proper rates.
3. Continue a two-year study at 5-week intervals looking at possible seasonal variation in well water nitrate/nitrogen content on 12 wells selected according to location, depth, age of well, construction of well. These sites are also being used to cooperate with MN Pollution Control Agency to test for pesticides and other pollutants.
4. Continuation into the 7th year of a well-water study on 161 wells to check nitrate/nitrogen levels for citizen awareness and understanding of groundwater concerns. The MN Dept. of Ag analyzes the samples at no cost to the project.
5. A study to investigate the effects of split nitrogen application and rates to determine if reducing the rate using the split N method can improve nitrogen efficiency in cooperation with Univ. of MN Extension Soil Scientist.
6. A second year study to determine differences in corn hybrids with N accumulation, the effect of tillage on N uptake, and the relationship of soil-water depletion within the soil profile with N uptake, in cooperation with Univ. of MN Experiment Station Soil Scientist.
7. Early crop season insect moth trap counting to monitor extent of any infestation to help determine if insecticides are needed rather than farmers automatically applying material, in cooperation with Area Extension CPM Agent.
8. A study in cooperation with Univ. of MN Extension Entomologist and Area Extension Crop Pest Management Agent to look at rootworm insecticide rates on continuous corn. Rootworm damage will be determined according to each rate and yields checked.
9. A tillage and weed control plot in cooperation with the Area Extension Crop Pest Management Agent to look at various tillage and weed control practices for SE Minnesota. The study includes rotary hoe and cultivation, cultivation only, cultivation and herbicide, herbicide only, and a check.

Conservation Reserve Program, Reinvest In Minnesota Program, or long-term conservation easements; and 3) encourage adoption of best management practices leading to the establishment of wildlife cover while measurably reducing sediment delivery from the 40 square mile target drainage area.

To accomplish these goals a number of significant achievements have been completed. Establishment of a steering committee, accelerated conservation planning, demonstrations and workshops, practice implementation, computer assisted filing capability, ACNEPS, sediment monitoring, test plots, cost-share opportunities and technical assistance.

Interest in Whitewater conservation efforts have been on-going since the dust-bowl era. Federal, state and local agencies have been committed to maintaining and enhancing the Whitewater watershed.

WHITEWATER RIVER WATERSHED
Wabasha, Olmsted, and Winona Counties, Minnesota

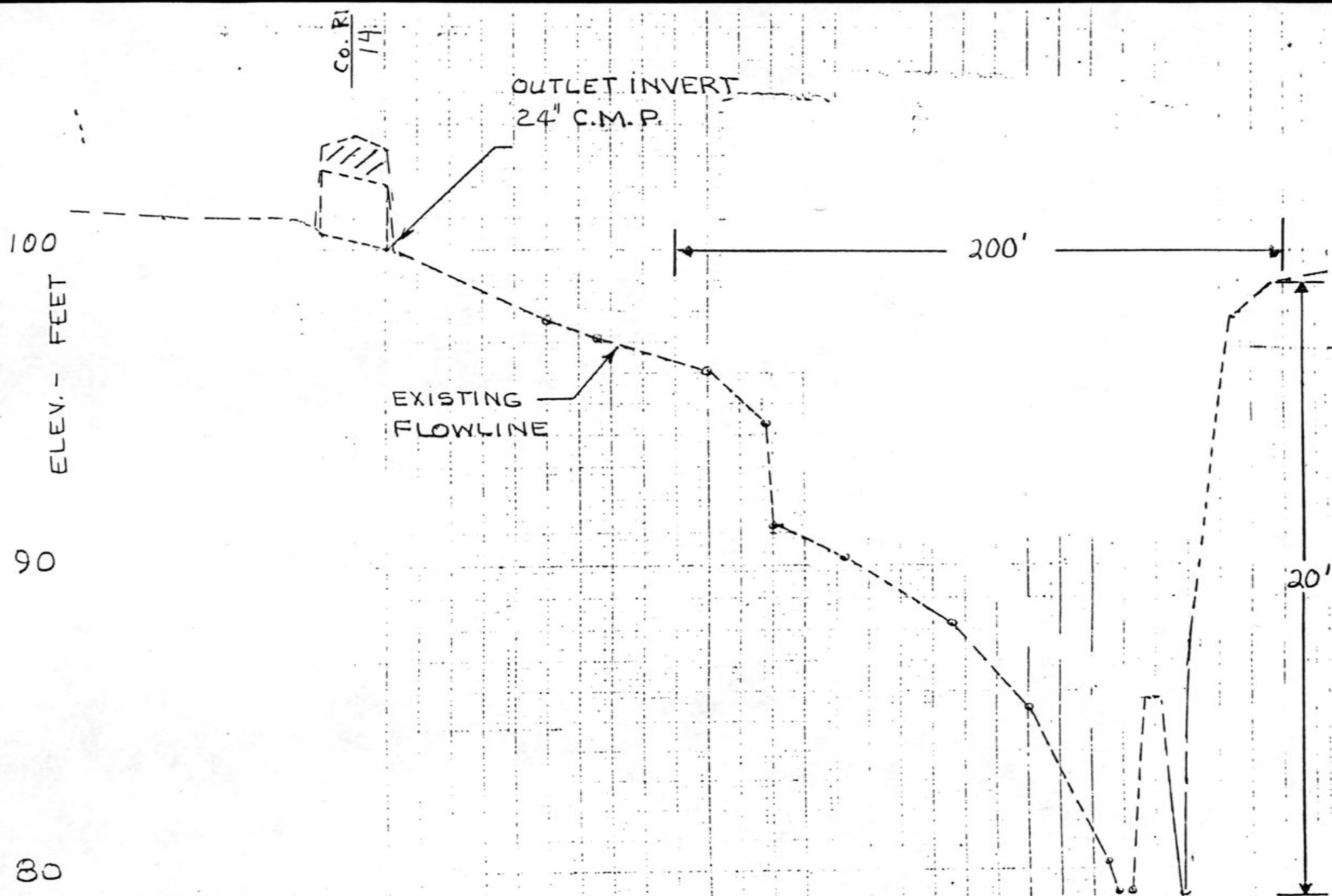


SINKHOLES

Sinkholes are one of the major water quality menaces posing a threat to Winona County. The karst region of southeastern Minnesota are susceptible to sinkhole development due to the alkaline limestone bedrock reacting with slightly acidic groundwater. After a period of dissolution the limestone will decay, making an unstable situation in which the soil and subsoil will drop under its own weight, creating a sinkhole. Surface runoff carrying nutrients and pesticides now has a direct path to the groundwater without the benefit of being filtered by the soil.

Sinkholes vary in size, depth and cost to seal. The sealing process usually begins with excavation around the sinkhole, exposing the limestone and providing visual inspection. Usually, field stone and concrete are injected below the bedrock, followed by a layer of clay and a layer of plastic to prevent further water infiltration. Clay, layered and compacted by a bulldozer is placed over the plastic. Once this is completed, the original topsoil is replaced and seeded. This leaves a sealed sinkhole with no further damage to groundwater or surrounding land. One should remember that although sinkhole sealing is very valuable it could create problems elsewhere.

Costs of sinkhole sealing vary from \$2,500 to \$10,000 depending on size and equipment used. On an average, sinkhole sealing costs \$6,500 per sinkhole to seal.



LEWISTON SINKHOLES

Approximately 85% of the stormwater runoff for the entire city of Lewiston outlets at the south end of town just beyond the railroad tracks. After running overland for $\frac{3}{8}$ mile, the runoff encounters the first of three sinkholes in the drainageway. There are five additional side sinkholes in the vicinity for a total of eight sinkholes.

As little as a 0.10" rain will produce runoff and outflow at the storm sewer outlet. Depending on how dry conditions are at the time of the rain, this storm sewer outflow usually runs all the way downstream to the sinkholes. The water seeps into the sinkholes and only in the event of a three to four inch rain does runoff ever flow beyond the three sinkholes in the drainageway. The deepest sinkhole is about nine feet deeper than the average gradeline of the draw, so there is considerable capacity for temporary storage of runoff as it seeps down into the sinkholes.

Within the city, there are three commercial farm supply businesses which handle both fertilizers and pesticides, and a photographic developing firm. In addition, an active railroad line operates through the village. An accidental spill could prove to be a serious groundwater pollution hazard. All of the potential pollution sources are within $\frac{1}{2}$ to $\frac{3}{4}$ mile of the sinkholes.

City officials are very concerned about this problem and have committed themselves to solving it. They have been working with the landowners on whose property the sinkholes lie, in an effort to come to an agreement on a cost-sharing and perpetual maintenance plan for the project. The Lewiston sinkhole project was determined to have a priority for cost-sharing with the additional funds coming from LCC. The following is an estimate of costs that can be expected.

GARVIN BROOK - WINONA SWCD - RCWP
CITY OF LEWISTON SINKHOLE PROJECT
DECEMBER 21, 1988

PRELIMINARY COST ESTIMATE

1.	7 acres Tree Removal @ \$1200/acre	\$ 8,400
2.	5,000 c.y. Sinkhole Excavating @ \$2/c.y.	10,000
3.	1,000 c.y. Rock Excavation @ \$5/c.y.	5,000
4.	30,000 c.y. Earth Fill, Class "C" @ \$2.50/c.y.	75,000
5.	10,000 c.y. Earth Fill, Class "C" @ \$1.50/c.y.	15,000
6.	15 acres Salvaging and Spreading Topsoil @ \$750/acre	11,250
7.	3 acres (1,500 L.F.) Waterway Construction Upstream of Existing CCC Str. @ \$2,000/acre	6,000
8.	1000 L.F. X 80 ft. width Shaping and Grading Downstream of Sinkhole Area, @ \$3/lin. ft.	3,000
9.	Remove and Dispose of Existing Rock Masonry CCC Structure	2,000
10.	Rock Field Crossing @ 36 + 16.5 75 cu. yd. Rock, in Place @ \$26.50/c.y.	2,000
11.	3,600 L.F. Perf. & Non-Perforated Drain Tile & Appurtenances @ \$2/L.F.	7,200
12.	Surface Intake to 15-inch PVC Pipe with Rock or Conc. Lined Channel Bottom @ Approximately 36 + 00	1,500
13.	3,600 L.F. 15-inch PVC Pipe SDR 26, or Equal, in place @ \$22/L.F.	79,200
14.	Dewatering	8,000
15.	50 c.y. Concrete Grout, I.P. @ \$165/c.y.	8,250
16.	90,000 sq. ft. Plastic Liner, I.P. @ \$0.25/sq. ft.	22,500
17.	10 acres Seeding, Feet, Mulching @ \$600/acre	6,000
18.	Fencing - 10,000 L.F.	<u>12,000</u>

SUB-TOTAL	\$282,500
Contingency - 15%	<u>42,400</u>

TOTAL ESTIMATED COST	324,900
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PICKWICK

In 1980, a deluge of rain (11") caused extensive flood damage in the watershed and perhaps the most serious soil erosion this state has ever seen. One home was washed away with all of its outbuildings, the stream was rerouted and a wall of water washed by a populated area. The floodwater voided an area of ten acres with a gulley that averaged 15 foot in depth, volume of soil lost was 310,000 tons. The wall of water eroded down the valley washing out a township road and closing Highway 61 before entering the Mississippi.

Determined to stop flooding and erosion the citizens of Pickwick formed Pickwick Mill, Inc., which would seek assistance in controlling future floods.

They first applied for assistance from the Resource Conservation and Development Division of the U.S. Department of Agriculture. Their engineers spent more than two years studying the watershed and came up with an estimated 2.3 million dollar flood control structure of which 50% would have to be from local sources.

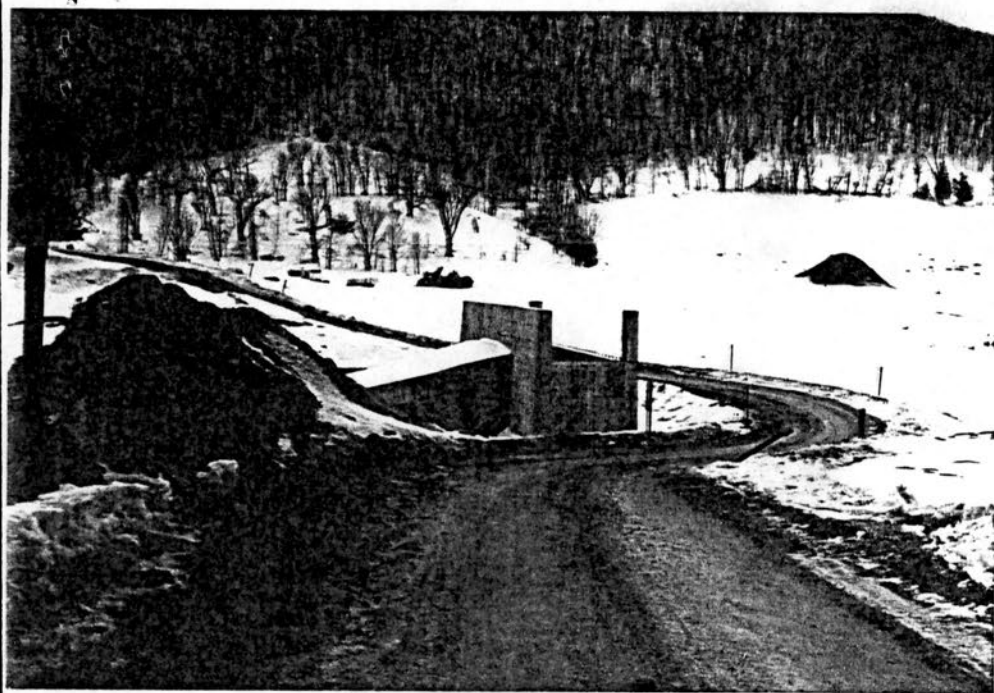
Financially out of the reach of Pickwick Mill, Inc., they hired their own private engineer. The result was a proposed spillway design that could be built for less than \$350,000 although considerably lower than the federal plan, Pickwick was still in need of financing such a project.

Contacting the local SWCD, a request was made to the state for using special projects cost-share funds. With funds from the Department of Natural Resources and special projects money Pickwick Mill, Inc., now had funding for up to 75% of the project.

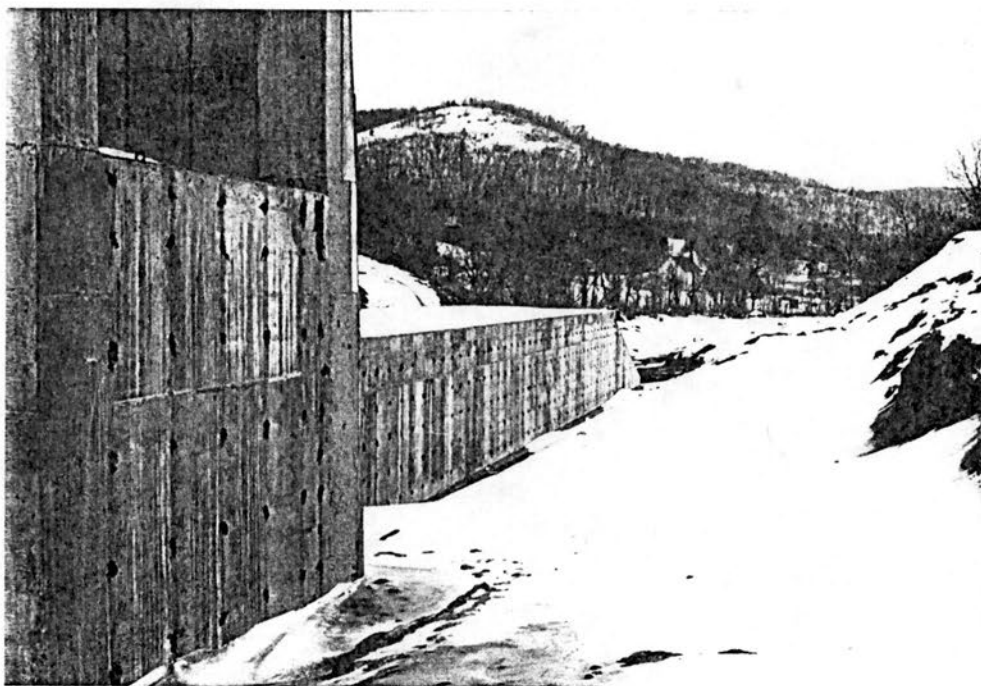
Benefits from such a spillway design include direct protection to 44 landowners, protection of 13,280 acres and recreating Lake Labelle. Indirectly all Minnesotans will benefit by the preservation of a designated trout stream, protection of Highway 61, protection of the Mississippi, and preservation of Pickwick Mill which is a state and national historic register property.

There has been many roadblocks and setbacks faced by the citizens of Pickwick. However, with persistence and dedication their efforts have paid off. Construction started last fall and completion of pond excavation, random fill, downstream channel excavation, silt berm, and emergency spillway were completed by June, 1989.

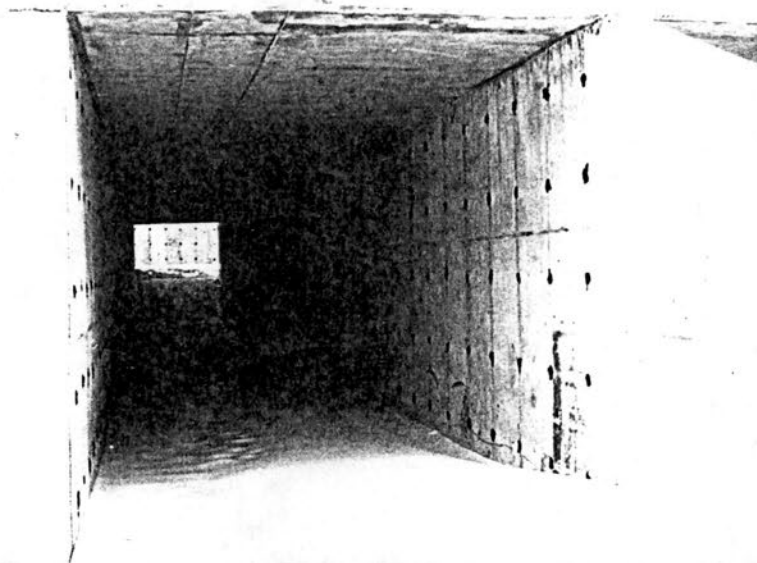
Pickwick is an excellent example of cooperation between state, county, and local governments.



Township road rerouted during construction of spillway.



Looking downstream of 1980 box culvert. Township road is now routed over culvert.



Upstream view of one side of 10' x 10' box culvert.

**MINNESOTA BOARD OF WATER AND SOIL RESOURCES
TOUR OF SOUTHEASTERN MINNESOTA
SEPTEMBER 26, 1989**

ITINERARY

8:30 AM	Tour Orientation	(Holiday Inn, Winona)
8:45 AM	Bus Tour	(Garvin Brook RCWP)
9:15 AM	Coffee Break & Discussion of RCWP	(Farmers Park)
9:40 AM	View Sinkhole & Animal Waste Facility	(Clarence Ressie Farm)
10:15 AM	View Typical Bedrock Formations	(Quarry)
10:30 AM	Discussion of Ground Water/Nitrogen Study	(Eugene Kalmes Farm)
11:15 AM	Sensitive Ground Water Areas and Agricultural Practices	(Whitewater State Park Interpretive Center)
NOON	Lunch and History of the Whitewater Valley	(Interpretive Center)
1:00 PM	Bus Tour of Winona County to Pickwick	
2:30 PM	Pickwick Site and Dedication Ceremony	
4:00 PM	Buses to Dakota	
4:30 PM	Discuss Water Bill & Environmental Legislation with Senator Morse	
	(Morse Apple Farm, Anne Morse to Describe Operation)	
5:30 PM	Buses to Holiday Inn	(Winona)
6:30 PM	To Julius Wilke for Dinner	



Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, Minnesota 55107

(612) 296-3767

Regional Offices

Northwest Region
1819 Bemidji Ave.
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218-755-3963

Northeast Region
Government Service Center
320 W. 2nd Street
Room 603
Duluth, MN 55802
218-723-4752

West Central Region
611 Iowa Avenue
Staples, MN 56479
218-894-1692

South Central Region
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507-354-2196

Southeast Region
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September 13, 1989

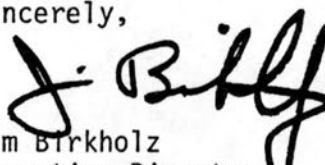
Mr. Rick Arnebeck
Winona County Engineer
Winona County Courthouse
171 W. 3rd Street
Winona, Minnesota 55987

Dear Mr. Arnebeck:

Earlier this summer you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

We hope you will be able to join us for the tour and dedication. We look forward to seeing you then.

Sincerely,


Jim Birkholz
Executive Director

JB:mja
Enc.



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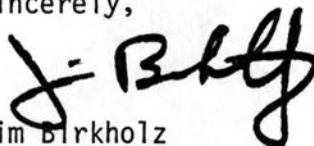
The Honorable Marlene Johnson
Lieutenant Governor
Room 121 State Capitol Building
St. Paul, Minnesota 55155

Dear Lieutenant Governor Johnson:

Earlier this summer you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

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Sincerely,


Jim Birkholz
Executive Director

JB:mja
Enc.



Southbridge Office Building
155 South Wabasha Ave., Suite 104
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September 13, 1989

The Honorable Elton Redalen
Minnesota House of Representatives
Box 110
Fountain, Minnesota 55935-0110

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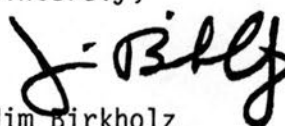
East Central Region
Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, MN 55107
612-296-3767

Dear Representative Redalen:

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Sincerely,


Jim Birkholz
Executive Director

JB:mja
Enc.



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155 South Wabasha Ave., Suite 104
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September 13, 1989

Mr. Craig Regalia
Dam Safety Unit
Department of Natural Resources
500 Lafayette Road
St. Paul, Minnesota 55146

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Dear Mr. Regalia:

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We hope you will be able to join us for the tour and dedication. We look forward to seeing you then.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Birkholz".

Jim Birkholz
Executive Director

JB:mja
Enc.



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September 13, 1989

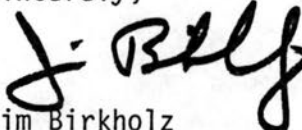
James Cooper, Regional Hydrologist
Department of Natural Resources
P.O. Box 6247
Rochester, Minnesota 55903

Dear Mr. Cooper:

Earlier this summer you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

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Sincerely,


Jim Birkholz
Executive Director

JB:mja
Enc.



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September 13, 1989

The Honorable Gene Pelowski
Minnesota House of Representatives
257 Wilson
Winona, Minnesota 55987-5238

Dear Representative Pelowski:

Earlier this summer you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

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Sincerely,

Jim Birkholz
Executive Director

JB:mja
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September 13, 1989

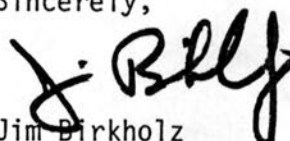
The Honorable Virgil Johnson
Minnesota House of Representatives
R.R. 2, Box 88
Caledonia, MN 55921-9620

Dear Representative Johnson:

Earlier this summer, you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

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Sincerely,


Jim Birkholz
Executive Director

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September 13, 1989

The Honorable Duane Benson
State Senator
R.R. 2
Lanesboro, Minnesota 55949-9802

Dear Senator Benson:

Earlier this summer, you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

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Sincerely,


Jim Birkholz
Executive Director

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September 13, 1989

The Honorable Steven Morse
State Senator
410 River Street
Dakota, Minnesota 55925-9999

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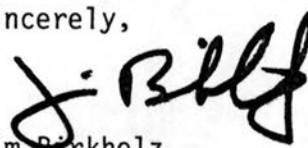
East Central Region
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Dear Senator Morse:

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Jim Birkholz
Executive Director

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September 13, 1989

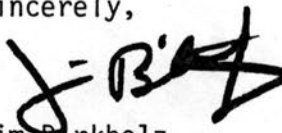
Mr. Ron Nargang
Director, DNR Division of Waters
500 Lafayette Road
St. Paul, Minnesota 55146

Dear Ron:

Earlier this summer, you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

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Sincerely,


Jim Birkholz
Executive Director

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JB:mja
Enc.



**Minnesota
Board of
Water & Soil
Resources**

September 13, 1989

Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, Minnesota 55107

(612) 296-3767

The Honorable Rudy Perpich
Governor of Minnesota
State Capitol Building
St. Paul, Minnesota 55155

Dear Governor Perpich:

Earlier this summer, you were invited by Eugene Kalmes, a member of the Board of Water and Soil Resources, to join us on our southeastern Minnesota tour and dedication of the Pickwick Mill Dam on September 26, 1989. We have finalized the tour agenda and a copy is enclosed.

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