

Appendix A:

Water Resource Data



Figure A: Profile of the Middle Fork of the Crow River

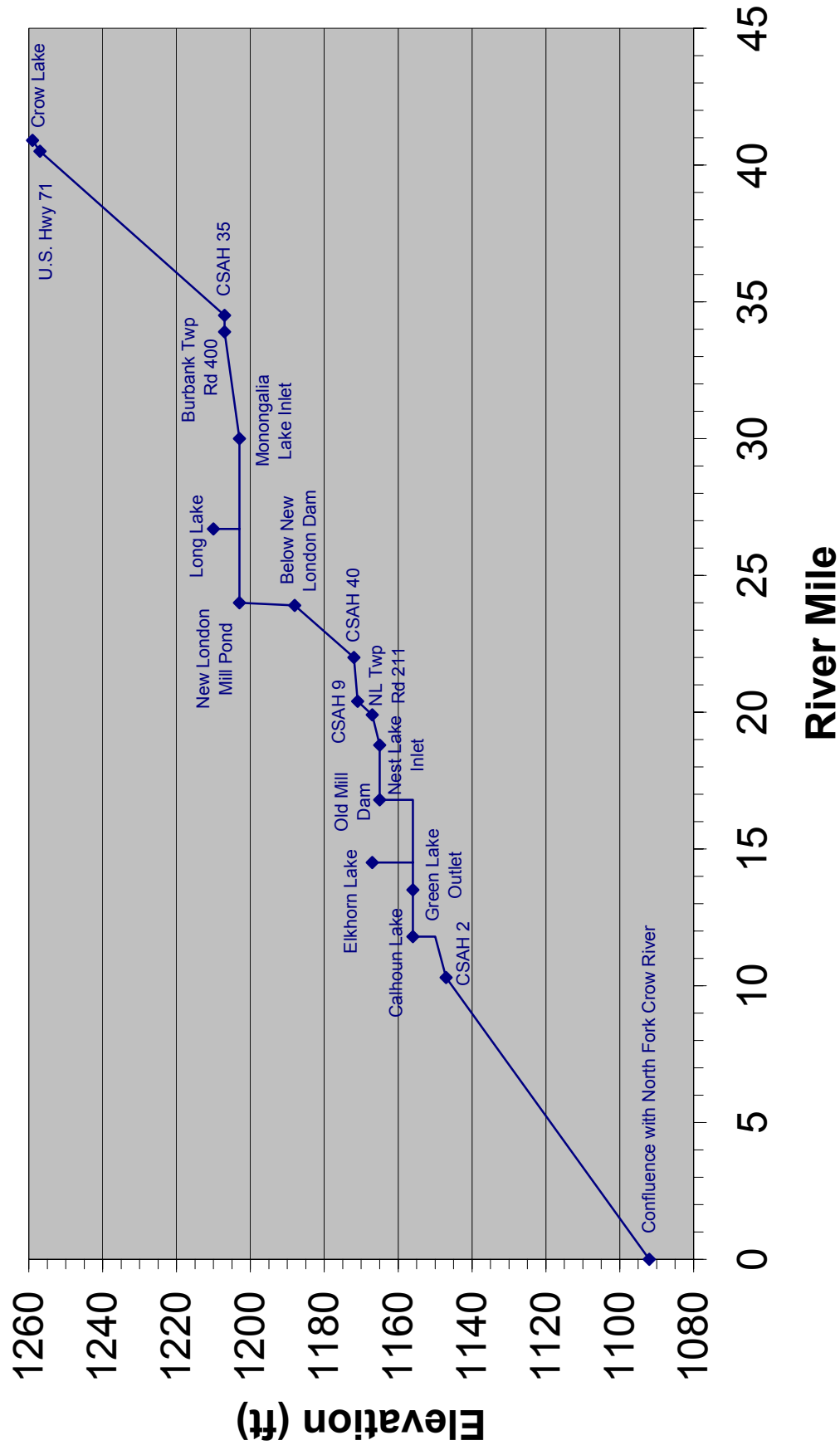


Figure 2
Stream Flow Monitoring Results (2004-2005)

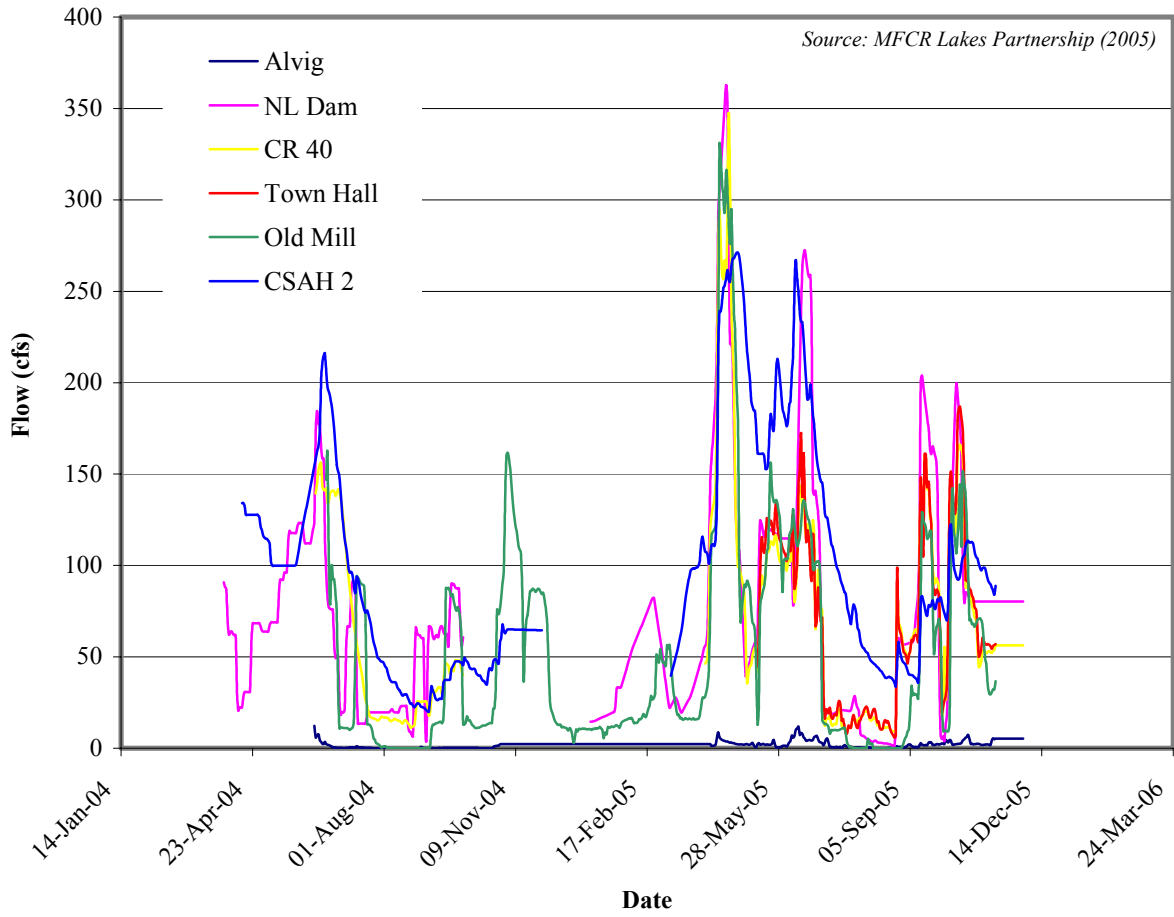


Table 1
Historical Flows for MFCR at CSAH 2

Calendar	Cubic Feet Per Second				Annual Runoff	
	Year	Total	Mean	Maximum	Minimum	Acre-feet
1950	12381.7	33.9	188	0.8	24560	0.20 2.78
1951	38082.0	104.3	268	11.0	75540	0.63 8.56
1952	40419.0	110.4	315	3.0	80170	0.67 9.09
1953	35114.4	96.2	406	2.2	69650	0.58 7.89
1954	14724.2	40.3	129	3.4	29210	0.24 3.31
1955	7298.2	20.0	71	1.4	14480	0.12 1.64
1956	9385.5	25.6	119	1.8	18620	0.15 2.11
1957	44339.1	121.5	385	9.5	87950	0.73 9.97
1958	13051.3	35.8	122	1.2	25890	0.22 2.94
1959	1308.8	3.59	24	0.5	2600	0.02 0.29
1960	3960.4	10.8	73	0.0	7860	0.07 0.89
1961	3872.1	10.6	71	0.8	7680	0.06 0.87
1962	12391.5	33.9	176	0.3	24580	0.20 2.78
1963	11717.5	32.1	195	0.5	23240	0.19 2.63
1964	8779.5	24.0	183	0.8	17410	0.15 1.98
1965	29494.4	80.8	341	0.0	58500	0.49 6.63
1966	22451.7	61.5	205	2.2	44530	0.37 5.05
1967	11640.5	31.9	156	0.2	23090	0.19 2.62
1968	10813.6	29.5	99	0.0	21450	0.18 2.43
1969	29806.8	81.7	374	2.2	59120	0.49 6.70
1970	13915.3	38.1	182	1.8	27600	0.23 3.13
1971	30141.0	82.6	262	9.0	59780	0.50 6.78
1972	44327.0	121.1	284	52.0	87920	0.73 9.97
1973	20946.7	57.4	186	5.6	41550	0.35 4.71
1974	12420.8	34.0	135	1.1	24640	0.21 2.79
1975	21508.7	58.9	281	0.0	42660	0.36 4.83
1976	12989.5	35.5	154	0.4	25760	0.21 2.92
1977	3070.0	8.41	50	0.27	6090	0.05 0.69
1978	29310.0	80.3	210	20.0	58140	0.49 6.59
1979	28333.7	77.6	303	2.2	56200	0.47 6.37
1980	12859.0	35.1	100	13.0	25510	0.21 2.89
1981	23109.0	63.3	250	16.0	45840	0.38 5.19
1982	37194.0	101.9	355	36.0	73770	0.62 8.36
1983	52032.0	142.6	485	45.0	103200	0.86 11.70
1984	57969.0	158.4	386	51.0	115000	0.96 13.04
1985	48123.0	131.8	318	53.0	95450	0.80 10.82
1986	96049.0	263.1	569	68.0	190500	1.59 21.59
Mean		66.5			48230	0.40 5.46
1998	28433.6	77.9	171	9.3	56400	0.47 6.39
1999	20517.5	56.2	186	2.4	40700	0.34 4.61
2000	5086.3	13.9	50	2.0	10090	0.08 1.14
2001	22671.9	62.1	368	3.3	44970	0.38 5.10
Mean		52.5			38040	0.31 4.28

Source: DNR records. Runoff calculations based on a watershed area of 166.7 square miles.

Table 2
Historical Flows for MFCR at New London Dam

Calendar Year	Cubic feet per second				Annual Runoff		
	Total	Mean	Maximum	Minimum	Acre-feet	Cfsm	Inches
1997	23862	65.4	386	3.7	47330	0.53	7.21
1998	17278	47.3	237	3.7	34274	0.38	5.21
1999	14218	39.0	195	4.5	28200	0.32	4.30
2000	7009	19.2	115	1.9	13901	0.16	2.12
2001	16677	45.7	345	0.52	33078	0.37	5.04
Mean		43.3			31357	0.35	4.78
New London Dam plus New London Hatchery							
1997	24644	67.5			48881		7.44
1998	18079	49.5			35858		5.46
1999	15058	41.3			29867		4.55
2000	7906	21.6			15682		2.39
2001	17538	48.1			34785		5.3
Mean		45.6			33015		5.03

Source: DNR records. Runoff calculations based on a watershed area of 123.1 square miles.

Appendix B:

Public Informational Meeting Comments



Appendix B: Public Informational Meeting Comments

List of Issues and Discussion:

1. Stormwater Management:
 - a. Tonight's rain is a great example- washing away salt & sand.
 - b. Review subdivision ordinances in area?
 - c. Include buffer zone between water and developments, so owners not mowing grass into lakes/water source.
 - d. Divide by sub-management areas-can't have one SWM for whole watershed.
 - e. Permeable pavements (issue # 30) as alternative to SWM
2. Curly Leaf Pond Weed control:
 - a. Phosphorus created by this weed.
 - b. Phase 1 handout talks about this.
 - c. Noxious weeds, exotic species
 - d. Invasive weeds.
3. What Best Management Practices (BMP) exist?
 - a. County's are county-wide not broken down
 - i. Create for sub-districts
4. Impervious Surface
 - a. Sidewalks, parking lots...
5. Curb & Gutter
 - a. Be aware of placement – not always needed – don't put everywhere.
 - b. North Shore of Green Lake – 'if you become so-big *had* to have curb & gutter'?
 - i. If so, can watershed buck-the-system and not comply?
 - ii. No such law.
 - c. C&G help to maintain roads
 - i. Town in cities with no C&G...uses alternatives.
 - ii. In Europe have 'cuttings'
6. Ponds / Water Gardens / "Rain"
7. Farm Fields & runoff:
 - a. Matt: Probably not in a first plan – but will encourage BMP in agriculture somewhere in Plan.
8. Enhance Programs-SWCD
 - a. Enhance existing programs
9. Sub-districts:
 - a. Variations in goals
 - b. Different issues
10. Assist County with implementation
 - a. Shared issues – assist county rather than strike out on own

11. Include all the Lakes & Wetlands
 - a. List does not include just the seven in map handout...
12. Better definition of wetlands
13. City wastewater discharge
 - a. Wastewater treatment plants – designed to at some point to overflow – wet weather overcharge.
14. Buffer Strips
 - a. Drainage systems properly buffered?
 - i. Add incentives – Farmers should not have to pay whole cost for buffers that help everyone.
15. How far back do you look for this Plan?
 - a. Remember times have changed
 - b. Where are we going to start from?
 - i. Today?
 - ii. Start addressing problems today...
16. Zoning changing
 - a. Don't like when area zoned for one thing and changed to another
 - i. Give county and/or city boards better criteria to base better decisions on
17. Sensitive Development Areas
 - a. Draining natural areas and replacing with man-made – just is not the same
18. Total Maximum Daily Loads (TMDL)
 - a. Impaired waters
 - i. Diamond in on list...
 1. Nest, Mud, & Calhoun – close to being on list
19. Lakes are often focal points
 - a. Differently polluted
20. What do the agencies do?
 - a. Nest Lake – clean up lake – DNR – (thinks it's a scam – permits, fees, ...ironic to have to pay to clean up your own lake...)
 - i. Permits keep track of which plants are taken out – lily weeds taken out of Nest Lake – should not have happened.
 - b. Need to understand for the benefit of both
 - i. Education – awareness
21. Back up priorities with \$\$\$\$\$\$
 - a. Priority of spending funds...
22. All in the District together
 - a. Every sub-basin is different and changes will effect each differently...but result will help all
 - b. Remember it is 'Middle Fork' of the 'Crow River'

23. Consistency through district
 - a. Different cities
 - b. Overlapping boundaries
 - i. Unfunded mandates –
 - ii. If you caused the problem you have to fix the problem...very little neighbor sharing – Need to get away from this kind of thinking.
 - c. Have accountability
 - i. Time for Counties to update 5 year plans – finding not much accomplished.
 - ii. Plan to accomplish what you can – plan to fix 2-3 issues and do it – rather than planning to fix 30-40 and getting none completed.

24. Public – Educated / Awareness

25. Fees / Existing or new?
 - a. Funding - need to explore

26. Silt fences – already “lost”
 - a. Not very beneficial - Soil already moving...shouldn't be
 - b. Deal with pollution where it happens to prevent it from all going into drainage

27. Construction site de-watering
 - a. Do not allow

28. Plan?
 - a. What's the role?
 - i. Educate
 - ii. Enforce
 - iii. Assist
 - iv. Regulate

29. Ditch Cleaning

30. Permeable Pavements
 - a. Wal-mart parking lot
 - b. Gravel roads

31. Individual Sewage Treatment Systems (ISTS)
 - a. Failing
 - i. How bad?
 - b. How to fix?
 - i. Identify problems
 - ii. Research solutions

32. Sanitary Service District
 - a. USE IT – use current systems
 - i. New developments should be required to hook up
 - b. 20 year life span
 - i. sewer districts designed to support for 20 years
 - c. Establish system of voluntary inspections
 - d. Grant money out there?

33. Can we leverage outside?
- a. Can we leverage all watershed districts to stop mercury from SD? – Yes, can be done...
34. Where does water usage get addressed?
- a. How water used? – Addressed in this plan?
 - i. Drinking water
 - ii. Swimming
 - iii. Fishing
 - iv. Jet-ski
 - b. Water balance
 - i. So much rain
 - ii. So much run-off
35. How serious is water quality to state of MN?
- a. #1 resource
 - i. State uses the lakes to promote state
 - ii. High taxes – and go up every year...
36. Has the “state” helped others?
- a. Throwing more money at a problem doesn’t fix it – must have some accountability.
 - b. Emphasize ‘True’ accountability
 - i. People in this room – be responsible
 1. People in this room – wanted roads
 2. People in this room – wanted improvements in past
 3. If these weren’t here – problem would be gone
37. Be accountable as a District
- a. With incentives
 - b. Find the balance
38. Educate – Local Governmental Units (LGU)
39. Assist with transportation issues.
- a. Difficult to tackle
40. Urban run-off
- a. How do we get rid of all that?
41. One goal / issue in each sub-district
42. It will take time!
- a. People tend to expect things to happen – yesterday.
43. 1st goal/phase of plan
- a. Identify our goals – not necessarily solutions.

Appendix C:

Watershed Management Plan Taskforce Meeting Minutes



**Middle Fork Crow River Watershed District
Watershed Management Plan Taskforce
Meeting Minutes**

Thursday, April 6, 2006
Heritage Bank
Spicer, Minnesota

Present: Gordy Behm, MFCRWD; Ann Latham, MFCRWD; Tom Bonde, MFCRWD; Mike Taylor, NRCS; Rick Reimer, Kandiyohi County SWCD; Tom Fischer, BWSR; Paul Jurek, MnDOT; Adam Barka, Meeker County SWCD; Paul Rasmussen, MnDOT; Bruce Wilson, MPCA; Skip Wright, DNR-Division of Waters; Diane Sander, CROW; Steve Erickson, USFWS; Bruce Gilbertson, DNR-Division of Fisheries; and Matt Johnson, MMDC

Call to Order

The meeting was called to order at 2:01 p.m.

Meeting Summary

1. Introductions
2. Write a 10-year plan with a 5-year implementation focus
3. TMDLs need to be properly addressed
4. Stormwater Management will be a priority issue
 - a. Examine the 30 Lakes Watershed District permitting process
 - b. Look at the 10 basic erosion and sediment rules that are not enforced (PCA's NPDES Permit Book)
 - c. Three main areas (municipal, construction site, and industrial)
 - d. Create separate subcommittee for Urban and Rural Stormwater Management
 - e. Build the model after Pelican River Watershed District (Detroit Lakes area)
 - f. MPCA is currently working on statewide TMDLs (site-specific criteria and standards based on existing quality)
5. Identify ditch problems, but don't commit to completely address them right away
6. There needs to be an emphasis on both protection and rehabilitation.
7. The District should try to identify critical areas first
8. Work with the Conservation Reserve Program on compatible objectives
9. USFWS has existing money to assist with re-establishing shallow lakes
10. Need to have certified erosion control contractors and/or staff

Adjournment

The meeting was adjourned at 4:05 p.m.

Respectfully Submitted,

Matthew Johnson, Acting Secretary

**Middle Fork Crow River Watershed District
Watershed Management Plan Taskforce
Meeting Minutes**

Thursday, May 4, 2006
District Office, Bell Tower Plaza
Spicer, Minnesota

Present: Robert Hodapp, MFCRWD; Gordy Behm, MFCRWD; Ann Latham, MFCRWD; Mike Taylor, NRCS; Rick Reimer, Kandiyohi County SWCD; Tom Fischer, BWSR; Paul Rasmussen, MnDOT; Bruce Wilson, MPCA; Skip Wright, DNR-Division of Waters; Diane Sander, CROW; Maggie Leach, MPCA; Gary Danielson, Kandiyohi County Public Works; Gary Geer, Kandiyohi County Environmental Services; Sue McGuire, Stearns County Environmental Services; Mark Latterell, Stearns County Environmental Services; Wayne Cymbaluk, Stearns County SWCD; Loren Engelby, Kandiyohi County Public Works; Matthew Johnson, MMDC; and Terresa Westerman, MMDC

Call to Order

The meeting was called to order at 1:30 p.m.

Meeting Summary

1. Introductions
2. Speakers. Due to computer troubles, Bruce Wilson let Wayne Cymbaluk present first. Matt asked that everyone hold questions until after Wilson completed his presentation so he could leave as scheduled.
 - a. 1st Speaker - Wayne Cymbaluk read though Stearns County Stormwater Ordinance Sections 7.5 & 7.21, pointing out which ones are working well and which ones need work. Important to have county backup and support. (Tip: Streamline up front – then take to planning commission.)
 - b. 2nd Speaker - Bruce Wilson showed his presentation on Stormwater Management Overview.
3. Discussion
 - a. Stormwater takes a lot of management (enforcement issue) How/What is MFCRWD going to do with controlling it?
 - b. Kandiyohi is complaint driven right now – need enforcement
 - c. Stormwater Technician?
4. 5-year implementation portion of Plan + thinking of what's next.
 - a. Don't do duplicate things
 - i. Find a niche to complement other agencies. (One has concentrated on education)?
 - ii. Four-County Ordinances?
 - iii. Enforcement of Storm water violations?
 - iv. I & E?
 - v. Group – Coordinated approach- what each does – what they need – where MFCRWD fits in and fill a need.

- b. Ask Counties – How MFCRWD can help?
 - c. Ask Counties – What do you want us to do?
 - d. Whatever decision – Must be in black & white and on paper. TAC cannot do anything without that. Talking back and forth gets us nowhere.
5. Ordinance Compliance
- a. Controlling development
 - i. Look at different areas – Now – current areas need (retrofit) –
 - ii. Control development – now and in future
 - iii. Critical areas – along highways, corridors, and lakeshores – areas to protect
 - b. Stormwater provisions
 - i. Sub-group

Adjournment

The meeting was adjourned at 3:30 p.m.

Respectfully Submitted,

Terresa Westerman, Acting Secretary

**Middle Fork Crow River Watershed District
Watershed Management Plan Taskforce
Meeting Minutes**

Monday, October 23, 2006
District Office, Bell Tower Plaza
Spicer, Minnesota

Present: Julie Klocker, MFCRWD Administrator; Ann Latham, MFCRWD AC; Tom Bonde, MFCRWD AC; Rick Reimer, Kandiyohi County SWCD; Skip Wright, DNR-Division of Waters; Maggie Leach, MPCA; Loren Engelby, Kandiyohi County Public Works; Jeff Bredberg, Kandiyohi County Environmental Services; Adam Barka, Meeker County SWCD; Bruce Gilbertson, DNR-Division of Fisheries; and Michael Sharp, MMDC

Call to Order

The meeting was called to order at 1:33 p.m.

Identification of Priority Issues

Mr. Sharp presented an update of the planning process to date. A packet was then distributed to Taskforce members that contained comments submitted by Citizen Advisory Committee members and profiles of each of the District's ten subwatersheds. Taskforce members reviewed the comments and profiles and developed the following list of priority issues:

A. Watershed-Wide Issues

Aquatic Vegetation

- Aquatic Vegetation Management. The District should assist all lake associations with aquatic vegetation issues, including the preparation of Aquatic Vegetation Management Plans.
- Invasive Aquatic Species. The District should work with lake associations in training volunteers to identify and monitor the distribution of invasive aquatic species.

Water Quality

- Pollution Sources. The District should cooperatively work with all stakeholders in identifying pollution sources that threaten the quality of water resources.

Land Use/Management Controls

- Conservation Easements. The District should inventory the various conservation easements that exist in the watershed. Land that is vulnerable to erosion should be targeted for these programs.
- Shoreland Standards. The District should promote the adoption of the DNR's new alternative shoreland standards to minimize the effect of new and existing development on water resources.
- Site Plan Review. The District should assist local governmental units in reviewing sites plans, when appropriate, to ensure that construction activities do not adversely impact water resources.

- **Aggregate Mining.** The District should work with each of its counties to ensure that aggregate mining is conducted in an environmentally responsible manner.
- **Environmental Review.** The District should provide comments on environmental assessment worksheets (EAW) and environmental impact statements (EIS) to local units of government for projects that have the potential to impact water resources.

Best Management Practices

- **Wetland Restoration.** There are numerous wetlands that could be restored in the watershed. The District should actively work with its partners to examine all opportunities to restore these areas.
- **Routine Roadway Maintenance.** The District should work with the individual transportation authorities in the watershed to ensure that sediment basins are routinely maintained and that sediment and other debris that collects on roadways is regularly removed.

Inventory and Analysis

- **Buffer Inventory.** A buffer inventory should be completed on all streams and public drainage systems in the watershed.
- **Water Balance Study.** A detailed water balance study should be conducted to better understand the hydrology of the watershed.
- **Subwatershed Delineations.** There are several apparent errors in the hydrologic delineation of subwatersheds. The District should encourage the DNR to resolve these issues.
- **Wastewater Treatment.** The District should advocate the proper treatment of wastewater in the watershed, including educating property owners on the need for ISTS maintenance and the effects of failing systems on water resources. The expansion of the Green Lake Sanitary Sewer and Water District to additional lakes should be supported, when feasible.
- **Feedlots.** Feedlots that pose a potential pollution hazard, as determined through site inspections conducted by the County feedlot officers, should be identified in the Plan.
- **Wellhead Protection.** The District should cooperatively work with cities in the development and implementation of Wellhead Protection Plans.
- **Stormwater Management.** A comprehensive stormwater management strategy, which includes the use of land use control and BMPs, needs to be developed for the watershed.
- **Education.** There is a need for additional water resource related educational programs in the watershed. The District should work to identify and fill these gaps.

B. Subwatershed Specific Issues

- **Judicial Ditch 3, Mainstem Subwatershed**
 - Ditch repairs may have contributed to past water quality problems.
 - Further investigation is needed on the impact of the City of Belgrade's sanitary and storm sewer systems on water resources.
 - Additional hydrologic data needs to be collected on Crow Lake. Is it a closed basin?
- **Judicial Ditch 3, Branch 6 Subwatershed**
 - There are several wetland restoration opportunities.
 - Additional hydrologic data needs to be collected on Grass Lake. Is it a closed basin?
- **Kandiyohi County Ditch No. 37 Subwatershed**
 - There are several wetland restoration opportunities.

- Monongalia Lake Subwatershed
 - There are several size estimates for Monongalia Lake. Further investigation should be done to resolve this conflict.
 - The New London dam is scheduled to be reconstructed, possible as early as 2008. The new dam will have an emergency spillway and will require less overall operation; this will increase dam safety.
 - Bank erosion is occurring in the Mill Pond and along segments of the River.
 - There has been substantial deposition of muck in Mill Pond.
 - Relative to many of the other lakes in the watershed, very little water quality data exists for Long Lake. Additional monitoring may be necessary.
 - Further investigation needs to be done on the exact cause and control of hydrogen sulfide emissions from the River in New London during anoxic conditions.
 - There is an overall lack of stormwater management in New London. The City has expressed interest in adopting a stormwater ordinance. In addition, retrofit opportunities should also be pursued.

- Nest Lake Subwatershed
 - There is significant phosphorus loading occurring in the segment of the River from New London to Nest Lake. This area needs to be targeted with BMPs to prevent further degradation of Nest Lake's water quality.
 - Nest Lake is infested with Curlyleaf pondweed. The Lake Association has a mechanical harvester that it uses to harvest the weed. The net benefit of this practice needs further evaluation.
 - There are several shoreline areas around Nest and George Lakes that are actively eroding.
 - There has been a build up of sediment and organic detritus at the inlet of the River into Nest Lake.
 - The Old Mill Dam is in disrepair and should be replaced.

- Green Lake Subwatershed
 - Further monitoring needs to be conducted on the minor subwatershed inlets into Green Lake.
 - Stormwater management associated with development is and will continue to be a key issue in this subwatershed.
 - Green Lake is infested with Eurasian watermilfoil. Management strategies need to be developed.
 - There has been an apparent increase in algal growth in Green Lake.
 - Further investigation is needed to determine the sources of nutrients that are degrading the water quality of Alvig Slough.
 - Weed harvesting on Nest Lake sometime results in debris being transported by the River into Green Lake.
 - Additional runoff into West Woodcock Lake will result in higher flow into Green Lake. This could impact the water quality of Green Lake.
 - Additional hydrologic investigation is needed for Elkhorn Lake.

- Lake Calhoun Subwatershed
 - There has been a build up of sediment at the inlets of Lake Calhoun.
 - There are several shoreline areas around Calhoun Lake that are actively eroding.
 - A nutrient source to Lake Calhoun could be eliminated if County Ditch No. 26 were diverted.

- The Lake Calhoun dams are no longer being operated as designed and may need to be rebuilt.
- Diamond Lake Subwatershed
 - Diamond Lake is the most eutrophic lake in the watershed.
 - There is an urgent need for centralized sewage treatment.
 - The District should utilize information contained in the Diamond Lake Diagnostic Study.
 - A TMDL study needs to be completed on Diamond Lake for excessive nutrients.
- Meeker County Ditch No. 47 Subwatershed
 - One of the City of Atwater's wells is highly vulnerable to contamination due to its construction.
 - The City of Atwater needs to implement erosion control BMPs to reduce the sediment load carried by its storm sewer system.
 - There is an overall lack of monitoring data for this subwatershed.
- Middle Fork Crow River Subwatershed
 - A permanent gauging sites should be established at the outlet of the River.
 - Channelization of the River has resulted in downcutting of the streambed.
 - The District should work with the DNR to restore sections of the River to its natural state.

Adjournment

The meeting was adjourned at 4:15 p.m.

Respectfully Submitted,

Michael Sharp, Acting Secretary

Appendix D:

Advisory Committee Comments



Appendix D: Advisory Committee Comments

1. Fix failing septic systems
2. Lakeshore development – setbacks of 100' (?) | Shore Buffers | no weed cutting (cattails, bullrush or lily pads) – what you buy is what you keep | no filling with sand to make a beach.
3. Zoning – Lake Shores or other areas zoned resource management (RM) must not be rezoned residential. They were zoned RM for a reason.
 - WPA & WMA land must have 500' buffer on their edge as hunters bought these public lands & homes on their edge encroach on same.
 - Development on new open land must be limited to conservation subdivisions.
4. Construction / Home sites
 - Bare ground must be covered with seeded matting ASAP.
 - Water gardens on new home sites to collect roof runoff rather than shunting to storm drains.
 - Curb and gutter only when necessary and curbs should be the shallow type where possible (rural, other) so turtles are not trapped in roads.
 - Storm drains must be separate from sewage systems – probably already required but maybe not accomplished everywhere.
5. Tile (Farm) – no tiling without application | open tiles must be closed
 - Present tiles should have new “controlling devices” that can close-off the tile end to stop wastage when applicable (heavy storms during drought).
 - Funds should be available for farmers to develop conservation practices on their land.
6. County Ditches – get up to date on creating buffer strips
7. Private land practice note – people often feel they can do whatever they want on their land. The problem arises when their acts affect others negatively.
8. Education of the Public – watershed problems should be put forth to the public to kind of “break the ice” to pave the way for future action considered by the watershed. Regular articles should be published. Wetland Restoration should be a project where possible. The September 23 West Central Tribune’s article on the Olson Wetland project was excellent.

Graden West

The only comments that I have is that the Watershed District should be concerned about the flow of water from New London and the rivers to the north coming into Nest Lake. Looking at Nest Lake from the roads, there appears to be a tremendous amount of pollutants coming into the system. (Comment submitted by Ralph Jansen)

Jon Pederson

Plan direction ideas:

- lake runoff
- density on lakeshore property
- enforcement of impervious surface rule: $\leq 25\%$
- more education re: grass clippings sign around Green Lake
- standardized septic tank testing
- slough on south side of Green Lake

Greg Lecy

The only comments that I have is that the Watershed District should be concerned about the flow of water from New London and the rivers to the north coming into Nest Lake. Looking at Nest Lake from the roads, there appears to be a tremendous amount of pollutants coming into the system. (Comment submitted by Ralph Jansen)

Jon Pederson

Please address the problems with weeds, etc on Nest Lake -- esp the north shore. Thank you.

Jennifer Collins

My baseline comment is that the Plan should incorporate 100% of the Plan presented to MPCA in the fall of 2002 that they didn't fund. Then those items are to be prioritized based on later and newer information. The Plan should also address any issues developed in the 2004 and 2005 Water Monitoring Reports.

I also feel that a specific plan should be added for cleaning up the Crow River from New London to Nest Lake and then cleaning up Nest Lake. This is in the Phase I report but much new data is available to augment a plan. It might be best for the Plan to hire Dick Osgood and Steve McComas to present a specific plan for this phase. If this area doesn't get addressed ASAP I think Nest Lake will be down the tube as an impaired Lake.

Gary Broman

I am e-mailing you with my personal ideas as to the most important issues facing the watershed at this time.

1. Making sure that the CSAH 10 (Lake Ave. S) rebuild in Spicer is done in an environmentally responsible manner
2. Finding the non-point source pollutants that are causing Nest Lake to become impaired
3. Implementing the Phase 1 recommendations
4. Trying to find a way to reduce the affects of Alvig Slough on Green Lake
5. Monitoring Green Lake for changes in the prevalence of Eurasian water milfoil

Jill Nelson

As you prepare your plan for the Middle Fork of the Crow River, please keep Nest Lake in mind. Here is what I see as necessary.

1. We need a lake management plan which includes many ways to improve our lake and to prevent it from further deterioration. We need help in writing such a plan as we are not experts in lake management.
2. After attending many seminars at the recent Minnesota Waters Conference in Duluth, it is clear to me that we will need to continue removing nuisance lake vegetation as we have done in the past. To that end, we need to be able to hire a small crew who can work whenever conditions are favorable. We need to buy a truck since we have been operating with borrowed equipment. We will need to have a better harvester since ours is too small for the job and too work weary. We need permission to clear cut infested areas. This all takes money which we do not have. I feel this is a watershed responsibility since Nest Lake has been the unfortunate recipient of pollution from upstream for decades. We are, as a result, in a "self loading" conditon which causes parts of our lake to be unuseable by fish and humans.
3. We need the nutrient flow from upstream shut off.

Jean Ruter

Appendix E:

Open House Comments



Appendix E: Open House Comments

GOAL 1: PROTECT AND IMPROVE SURFACE WATER QUALITY.

Objective A: Increase stormwater management within the watershed.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
<p>1. Stormwater Management Plan. Prepare and implement a Comprehensive Stormwater Management Plan for the watershed that focuses on areas that are experiencing or expected to experience intense development pressure, specifically the New London-Spicer Area. This Plan should prescribe BMPs, including potential retrofit opportunities, provide recommendations for coordinating stormwater management among local units of government, and identify potential funding options.</p>	<p>Green Lake Nest Lake</p>	<p><i>Including 2nd tier development New permits on existing plats</i></p>	<p>12</p>
<p>2. Stormwater Management Regulations. Cooperatively work with local units of government to ensure that all new development complies with local, State, and Federal stormwater management regulations, which ever is more stringent.</p>	<p>All</p>	<p><i>Including 2nd tier development New permits on existing plats</i></p>	<p>4</p>
<p>3. Stormwater Management Ordinances. Provide technical assistance to local governmental units for the development of Stormwater Management Ordinances.</p>	<p>All</p>		<p>0</p>
<p>4. BMP Program. Provide technical and financial assistance, as available, to local governmental units and landowners for the implementation of stormwater management BMPs.</p>	<p>Green Lake Nest Lake</p>		<p>0</p>
<p>5. Rule Recommendation. Require that stormwater discharges to designated water resources be approved by the District and meet specific discharge standards (pre-development = post-development runoff rate, volume, and quality).</p>	<p>All</p>	<p><i>This is of utmost importance in development areas & roads.</i></p>	<p>2</p>

Objective B: Reduce erosion and sediment loading.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
6. Highly Erodible Land. Identify and target highly erodible land for enrollment in conservation easement programs, such as CRP and RIM.	CD 37 Green Lake Nest Lake	<i>CRP & RIM anywhere especially adjacent to streams, ditches, lakes</i>	2
7. Riparian Buffer Strip Incentive Program. Provide financial incentives to landowners for establishing and maintaining riparian buffer strips.	All		15
8. Streambank Stabilization. Implement and/or provide technical and financial assistance, as available, to landowners for streambank stabilization projects.	All		2
9. Roadway Maintenance. Work with transportation authorities to develop a routine schedule for sediment basin maintenance, street sweeping, and other BMPs.	Green Lake Nest Lake		5
10. Erosion and Sediment Control Ordinances. Provide technical assistance to local governmental units for the development of Erosion and Sediment Control Ordinances.	All	<i>This is important – including single permits- develop enforcement</i>	4
11. BMP Program. Provide technical and financial assistance, as available, to local governmental units and landowners for the implementation of erosion and sediment control BMPs.	All	<i>This is important – including single permits- develop enforcement</i>	0
12. Rule Recommendation. Require grading and pre and post construction erosion control plans for land development and public construction projects.	All	<i>This is important – including single permits- develop enforcement</i>	0

Objective C: Reduce external and internal nutrient/contaminant loading.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
13. Wastewater Treatment. Cooperatively work with local governmental units and other partners to identify and resolve wastewater treatment-related pollution issues.	Diamond Lake	<i>Septics should be targeted everywhere</i>	8
14. In-Lake Management. Conduct and/or provide technical and financial assistance, as available, to lake associations and other groups/organizations for the implementation of in-lake management efforts, such as aeration and alum treatment, to improve the quality of water resources, when appropriate.	Calhoun Lake Diamond Lake Green Lake Monongalia Lake Nest Lake		9
15. Revolving Loan Fund. Establish a revolving loan fund for upgrading noncompliant septic systems in the watershed.	All		0
16. Grants. Actively apply for and secure grant funds for upgrading noncompliant septic systems and feedlots in the watershed.	All		8
17. Sourcewater Protection. Actively participate in the Upper Mississippi River Sourcewater Protection Program.	All		1
18. BMP Program. Provide technical assistance and financial assistance, as available, to landowners for the implementation of nutrient and manure management BMPs.	All		0

Objective D: Manage public drainage systems to provide both conveyance and ecological benefits.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
19. System Management. Cooperatively work with drainage authorities to ensure that public drainage systems are operated and maintained in accordance with State Drainage Law (M.S. Chapter 103E) and other applicable regulations.	All		1

Objective D: Manage public drainage systems to provide both conveyance and ecological benefits. (Continued...)

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
20. Drainage Management Plan. Work with drainage authorities to develop a Comprehensive Drainage Management Plan for public drainage systems in the watershed.	All		1
21. Alternative Drainage Practices. Provide financial incentives for the implementation of alternative drainage practices, such as blind tile inlets, that have the potential to improve water quality.	Diamond Lake JD 17 M. Fork Crow River	<i>We should require tile "restrictors" to lower flows at tile outlet – why can a person tile without restrictions? We shouldn't allow open tile entrance either.</i>	2
22. River Restoration. Cooperatively work with stakeholders to restore channelized segments of the River to its natural state.	M. Fork Crow River		0

Objective E: Prevent and control invasive aquatic specie infestations.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
23. Invasive Aquatic Species Management. Conduct and/or provide technical and financial assistance, as available, to lake associations and other groups/organizations for the implementation of invasive aquatic specie prevention and/or control efforts.	Diamond Lake Green Lake Nest Lake		4
24. Public Water Access Signage. Install and maintain signage regarding the spread of invasive aquatic species at all public water accesses.	All		4
25. Pilot Program. Establish an invasive aquatic species prevention pilot program with a lake association. Volunteers would staff the public water access on selected days and educate boaters on how invasive species can be transported and how to properly conduct a boat inspection.	Green Lake Long Lake		0

Objective E: Prevent and control invasive aquatic specie infestations. (Continued...)

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
26. Volunteer Network. Establish a network of volunteers to identify and monitor the distribution of invasive aquatic species. All volunteers should be provided initial identification training and resource materials.	Diamond Lake Green Lake Nest Lake		1
27. Benefit Analysis. Evaluate the net benefit of current and proposed invasive aquatic specie control strategies.	All		0

GOAL 2. PROTECT GROUNDWATER QUALITY.

Objective A: Prevent groundwater contamination.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
28. Wellhead Protection. Cooperatively work with the MDH and public water suppliers to prepare and implement wellhead protection plans.	All		0
29. Protection of Vulnerable Areas. Provide financial assistance, as available, to individual public water suppliers to assist in the protection of vulnerable wellhead protection areas, including the purchase of development rights.	All		0
30. BMP Program. Provide technical and financial assistance, as available, to local governmental units and landowners for the implementation of groundwater protection BMPs.	CD 37 JD 3 Mainstem JD 3, Brach 6		4

GOAL 3. MAINTAIN AN ADEQUATE SUPPLY OF SURFACE AND GROUNDWATER FOR ALL USERS.

Objective A: Manage water resources supplies to minimize use conflicts.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
31. Water Appropriation Permits. Review and provide comments, as necessary, on all water appropriation permit applications submitted to the DNR in the District.	All		0
32. Dam Reconstruction and Repair. Provide technical and financial assistance, as available, for the reconstruction and repair of dams that are in poor operating condition.	Calhoun Lake Monongalia Lake Nest Lake		1
33. Rule Recommendation. Regulate the reconstruction and repair of dams and other water control structures in the District.	All		0

GOAL 4. PROTECT AND RESTORE CRITICAL AREAS.

Objective A. Preserve and restore wetlands.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
34. Wetland Preservation. Ensure existing wetlands are protected through the enforcement of existing State and Federal laws.	All		9
35. Restoration Program. Develop a coordinated and comprehensive program with partnering agencies for restoring wetlands within the District.	All		2
36. Priority Restoration List. Utilize the USFWS's Restorable Wetlands Inventory to develop a prioritized listing of wetlands to be targeted for restoration on a subwatershed basis.	All		1

Objective B. Protect hydrologically sensitive and unique natural areas.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
37. Hydrologically Sensitive Areas. Utilize conservation easement programs and land use controls to protect hydrologically sensitive areas, such as the Hardwood Hills area north of Green Lake.	Green Lake		1
38. County Biological Survey. Acquire and utilize County Biological Survey data to prevent impact to the critical habitat areas of listed species.	All		0

Objective C. Minimize the impact of new and existing development in shoreland areas.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
39. Encourage cities and counties to adopt the DNR's new alternative shoreland standards.	All		4
40. BMP Program. Provide technical assistance and financial assistance, as available, to landowners for the implementation of shoreland BMPs.	Diamond Lake Green Lake Nest Lake	<i>I believe in -> "what you bought is the way it should stay." If you bought shoreline with lily pads, wild rice, bullrush, etc. you can't even cut a path thru it.</i>	10

GOAL 5. PROMOTE WISE LAND USE MANAGEMENT.

Objective A: Participate in land use planning

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
41. Regulation Continuity. Provide formal recommendations to cities and counties on measures each can take to increase land use regulation continuity in the watershed.	All	<i>Zoning-Land is zoned for a particular reason. Often to protect the natural resource-land, H₂O, critters- in the case of RM Zoning-it shouldn't be rezoned to a denser category or the initial reason is defeated-RM rezoned residential as an example.</i>	5
42. Ordinance Review. Review and provide comments to local governmental units when they adopt or amend ordinances relating to water resources.	All		2
43. EAW and EIS Review. Review and provide comments on Environmental Assessment Worksheets (EAW) and Environmental Impact Statements (EIS) to Responsible Government Units for projects that have the potential to impact water resources.	All		0
44. Rule Recommendation. Require independent review of site plans for major land development and public construction projects.	All		3
45. Rule Recommendation. Require that local units of government submit proposed ordinances related to water resources to the District at least 30 days prior to the public hearing for review and comment.	All		1

Objective B. Promote environmentally responsible water-based recreation.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
46. Public Water Accesses. Support the construction and maintenance of public water access facilities to surface water resources in the District, where appropriate.	All		0
47. Public Water Access BMPs. Provide technical and financial assistance, as available, to public water access administrators for the implementation of BMPs to reduce the affect of these areas on surface water resources.	All	<i>This is an important issue especially with invasive species spread-no protection-lake access</i>	2
48. Special Protection Zones. Support the creation and implementation of special protection zones, such as Dogfish Bay's (Diamond Lake) No Wake Zone, when appropriate.	All		0
49. Fish and Wildlife Management Programs. Cooperatively work with the USFWS and DNR, Division of Fish and Wildlife to develop and implement management programs.	All		2

GOAL 6. EXPAND OUR KNOWLEDGE AND UNDERSTANDING OF THE WATERSHED.

Objective A: Coordinate and improve water resource monitoring and analysis efforts.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
50. Monitoring Plan. Prepare an annual Monitoring Plan for assessing the condition of surface and groundwater resources, as well as identifying pollution sources. This Plan should identify the specific sites to be monitored and contain detailed information on the physical, chemical, and biological parameters to be analyzed at each site.	All		0

Objective A: Coordinate and improve water resource monitoring and analysis efforts. (Continued...)

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
51. Subwatershed Water Quality Goals. Utilize available data to identify specific water quality goals for each of the District's ten subwatersheds.	All		0
52. Volunteer Monitoring. Recruit volunteers to participate in monitoring programs. At least one volunteer should be identified from every lake.	All		0
53. Data Collection and Organization. Develop and maintain a user-friendly database for all water resource monitoring data.	All		3
54. EDA/STORET. Annually submit surface water quality data to the MPCA and EPA to be entered into the EDA and STORET systems.	All	<i>Necessary for grant applications-phos, secchi, chlorophyl-a</i>	1
55. Mapping Application. Develop an interactive, web-based mapping application that connects users with water quality data from specific monitoring sites.	All		0
56. Gauging Station. Establish a permanent gauging station at the outlet of the River and other sites where appropriate.	M. Fork Crow River		1
57. Monitoring Summary. Include a summary of all monitoring data in the Annual Report.	All		0

Objective B: Conduct resource studies and inventories.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
58. TMDL Studies. Coordinate the preparation and implementation of TMDL studies for impaired waters.	Diamond Lake		6
59. Buffer Strip Inventory. Develop a GIS-based inventory of buffer strips along all streams and public drainage ditches.	All		7

Objective B: Conduct resource studies and inventories. (Continued...)

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
60. Public Drainage Systems Inventory. Develop a GIS-based inventory of public drainage systems in the District. This inventory should include detailed attribute information for each system, including the watershed and past maintenance efforts.	All		1
61. Dam Assessment. Conduct an assessment of the condition and functionality of each dam in the District.	Calhoun Lake Nest Lake		1
62. Abandoned Well Inventory. Develop a GIS-based inventory of known and potential abandoned wells in the District.	All		0
63. Groundwater Contamination Vulnerability Inventory. Develop a GIS-based inventory of areas vulnerable to groundwater contamination utilizing the County Geologic Atlases, Soil Surveys, and County Well Index.	All		0
64. Point Source Pollution Inventory. Develop a GIS-based inventory of known and potential sources of point-source pollution, including feedlots, junkyards, and fuel storage facilities.	All		2
65. Water Balance Study. Conduct a detailed water balance study on the watershed.	All		0
66. Hydrogen Sulfide Follow-up Study. Conduct a follow-up study on the status of the hydrogen sulfide emission problem that is occasionally created by the River in New London during anaerobic conditions.	Monongalia Lake		1
67. Improvement of Subwatershed Delineations. Work with partnering agencies to improve the accuracy of subwatershed delineations.	All		1

Objective B: Conduct resource studies and inventories. (Continued...)

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
68. Hydrologic Investigations. Conduct hydrologic investigations, as needed, to resolve conflicts in existing data and determine the influence of lesser-known basins in the watershed.	All		0
69. New Technology. Invest in new technology for conducting resource studies and inventories.	All		0

GOAL 7. ENGAGE RESIDENTS IN WATER RESOURCE MANAGEMENT.

Objective A. Develop a comprehensive education/outreach program.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
70. Comprehensive Education/Outreach Plan. Develop a Comprehensive Education/Outreach Plan for the District that identifies important issues and outlines specific strategies on how to target key stakeholder groups.	All		6
71. Educational Events. Sponsor and facilitate education events with partnering agencies.	All		1
72. Workshops. Provide staff and funds to conduct workshops on important water/land resource issues for District residents.	All		1
73. Youth Education Program. Develop and implement a water resource curriculum for youth in the District.	All		3
74. Public Information Package. Develop a public information package that can be economically mailed or distributed to residents that explains what a watershed is and how they can impact resources on a daily basis.	All		0

Objective A. Develop a comprehensive education/outreach program. (Continued...)

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
75. Information Materials. Develop and collect informational materials, including brochures and other handouts, that summarize land use/water resource issues in the watershed and make them readily available to the public.	All		0

Objective B. Improve and expand volunteer opportunities for residents.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
76. Volunteer Recruitment. Actively recruit and properly train volunteers to assist the District in water resource management.	All		1
77. Volunteer Retention. Regularly recognize the efforts of volunteers who have assisted the District in water resource management.	All		0
78. Volunteer Program Expansion. Periodically review Plan initiatives to identify potential opportunities for volunteers to assist in implementation.	All		0
79. Citizen Advisory Committee. Actively recruit residents to serve on the District's Citizen Advisory Committee.	All		0
80. Youth Involvement. Support the implementation of water resource projects with youth.	All		1

Objective C. Provide guidance to citizen groups and organizations on water resource issues.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
81. Citizen Group/Organization Meetings. Regularly attend lake association and other citizen group/organization meetings to share information and gain better insight on water resource issues.	All		0
82. Management Plans. Provide technical assistance to lake associations for the development and implementation of Lake Management and Aquatic Vegetation Management Plans.	All		0

GOAL 8: PROVIDE FOR EFFICIENT AND EFFECTIVE ADMINISTRATION.

Objective A: Develop and implement a regulatory program.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
83. District Rules. Develop, adopt, and implement rules for the District.	All		3
84. Permitting and Inspection Program. Formulate a permitting and inspection program for the implementation of the District's rules.	All		3

Objective B. Maintain adequate staffing.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
85. Staffing Plan. Develop a Staffing Plan to ensure that the goals and objectives of the District are effectively implemented.	All		1

Objective C. Maintain active advisory committees.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
86. Citizen Advisory Committee Meetings. Hold quarterly meetings of the Citizen Advisory Committee to discuss the water resource issues of the District.	All		2
87. Technical Advisory Committee Meetings. Hold meetings of the Technical Advisory Committee, as necessary, to address specific water resource issues.	All		0
88. Future Membership. Maintain a current listing of persons who are interested in serving on the District's Advisory Committees.	All		0

Objective D. Develop a comprehensive public relations program.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
89. District Website. Develop and regularly maintain a District website.	All		0
90. Annual Report. Prepare and distribute an Annual Report that summarizes the District's accomplishments.	All		0
91. District Newsletter. Prepare and distribute newsletters to residents and other stakeholders that highlight District accomplishments and priority water resource issues.	All		0
92. Watershed Tour. Provide tours of the watershed to stakeholders that highlight projects that the District has been involved with and areas that are in need of attention.	All		0
93. Press Releases. Prepare and distribute quarterly press releases that summarize District activities and decisions.	All		0

Objective E. Foster relationships with potential partners.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
94. Directory. Maintain a current directory of representatives from all Federal, State, and local agencies, offices, and special interest groups. These representatives should be sent regular updates on the activities of the District.	All		0
95. Meetings. Hold regular meetings with potential partners to discuss partnership opportunities and roles in implementation.	All		0

Objective F. Provide training opportunities for Board Managers, Advisory Committee members, and staff.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
96. Conferences and Workshops. Provide funding for Board Managers, Advisory Committee members, and staff to attend conferences and workshops to increase internal knowledge and skills.	All		0
97. New Manager and Committee Member Training. Conduct or provide funds for new Board Managers and Advisory Committee members to attend a training program to familiarize them on the many functions and responsibilities of the District.	All		1

Objective G. Strive for fiscal accountability.

Initiative	Priority Subwatershed(s)	Comments	Priority Dots
98. Annual Budget. Prepare and adopt an annual budget following the statutory requirements of M.S. Chapter 103D.	All		0
99. Annual Audit. Conduct an annual audit of the financial records of the District.	All		0
100. Financing Mechanisms. Utilize appropriate financing mechanisms to fund District initiatives, including but not limited to mechanisms and procedures outlined in M.S. Chapter 103D.	All		0
101. Additional Funding Sources. Actively pursue additional funding sources, such as grants and donations, in order to reduce the tax levy financing burden on the residents of the District and when appropriate seek partnerships and cooperative agreements to finance projects.	All		14

Appendix F:

60-day Review Period Comments and District Responses



Middle Fork Crow River Watershed District Comprehensive Plan
Draft Comprehensive Plan Review Comments and District Responses to Comments

Reviewer	Number	Subject	Require Plan Edit?
MPCA, Bruce Wilson	Comment 1	Chpt 1, page 2: Household income should be in here for assessing resources for management	
MPCA, Bruce Wilson	Response 1	Information has been added to Table 1C	X
MPCA, Bruce Wilson	Comment 2	Chpt 1, page 14: add, if can, watershed area drained by ditch at most downstream point	
MPCA, Bruce Wilson	Response 2	There is limited amount of accurate data on drainage ditch watershed areas. Initiative 62 in Chapter 4 specifically states that obtaining accurate information on drainage watershed as a goal.	
MPCA, Bruce Wilson	Comment 3	Chpt 1, page 26: Land use based on 1989, no credit given. Please go to http://land.umn.edu for 7 land use classes for 2000. Include imperviousness, 1990 and 2000	
MPCA, Bruce Wilson	Response 3	Land use data has been updated with the 2000 data from the land.umn.edu website. Therefore, the reference for the 1989 data has been removed. The impervious maps for 1990 and 2000 are provided in Chapter 2, page 27.	X
MPCA, Bruce Wilson	Comment 4	No stormwater conveyance summary (Highway 23, municipal ditches, # storm drains, MS4? (no), stormwater operation funding, SW mgmt around the lakes (very little, most straight-shot into lake).	
MPCA, Bruce Wilson	Response 4	Information and a summary of stormwater issues is contained in Chapter 2 pages 23-30. The extent to which stormwater is an issue is demonstrated in the Subwatershed #5 analysis in Chapter 3, page 12 and the number of initiatives contained in Chapter 4 relating to stormwater management.	
MPCA, Bruce Wilson	Comment 5	Ch 3. No municipal wastewater issues raised (old leaking system as in Belgrade, old Green Lake system ponds above Monongalia - closure?	
MPCA, Bruce Wilson	Response 5	Information and a summary of wastewater issues (municipal and private) is contained in Chapter 2 pages 32-35. There are several initiatives contained in Chapter 4, Page 5, Objective C which relate to these issues.	
MPCA, Bruce Wilson	Comment 6	Ch 3 No mention of ISTS needs and problems - for example NEST Lake, Old cluster systems around Green - closure and long-term plumes into lake?	
MPCA, Bruce Wilson	Response 6	Information on and a summary of wastewater issues (municipal and private) is contained in Chapter 2 pages 32-35. There are several initiatives contained in Chapter 4, Page 5, Objective C which relate to these issues.	
MPCA, Bruce Wilson	Comment 7	Chapter 4 Implementation. Stormwater - pollution prevention. Reduce compaction at every opportunity, street sweeping, preventing grass/leaf litter into storm drains, sediment control - preventing slugs into lakes creating sediment plumes, deltas, pet ordinances and animal unit mgmt to prevent bacterial degradation, operation and maintenance of stormwater brmps. Define storm drainage areas for each discharge. Define storm drainage areas for each discharge location, Estimate Q, P loads, TSS. Minimize impervious cover, encourage pervious pavers, rain gardens (have to have enough room to groundwater), urban forestry (tree gardens)	
MPCA, Bruce Wilson	Response 7	The District chose not to list out each specific BMP in order to be more inclusive of new ideas and emerging technologies. In Chapter 4 there are numerous initiatives which aim at implementing BMP's, developing comprehensive stormwater management plans and regulations as well as improving our understanding of stormwater issues through appropriate studies.	
Advisory Committee, Ann Latham	Comment 1	Ch 1, page 14: 'watershed area drained...' should be incorporated wherever possible since it identifies the source of water channeled to a narrow inlet/outlet	

Middle Fork Crow River Watershed District Comprehensive Plan
Draft Comprehensive Plan Review Comments and District Responses to Comments

Reviewer	Number	Subject	Require Plan Edit?
Advisory Committee, Ann Latham	Response 1	There is limited amount of accurate data on drainage ditch watershed areas. Initiative 62 in Chapter 4 specifically states that obtaining accurate information on drainage watershed as a goal.	
Advisory Committee, Ann Latham	Comment 2	Ch 1, page 26: ALL points are extremely important - include imperviousness needs to be expanded, where available to at least 2004: 2000 does not include impervious added (New London/Spicer corridor) by 23 expansion, according to Skip Wright an impervious study of Spicer was completed over a year ago by a DNR intern and should be readily available	
Advisory Committee, Ann Latham	Response 2	Refer to MPCA, Bruce Wilson - Response 4 . DNR impervious information is provided in Chapter 2 but available information is limited to first tier around the lake.	
Advisory Committee, Ann Latham	Comment 3	Chapter 4 Implementation MUST be included. (referring to Bruce Wilson, MPCA, comment 7)	
Advisory Committee, Ann Latham	Response 3	Refer to MPCA, Bruce Wilson - Response 7	
MPCA, Maggie Leach	Comment 1	INTRO – p. xiii: Under MDH - The Middle Fork is in the Source Water Protection area for MPLS/ST Paul – which is also under the jurisdiction of MDH	
MPCA, Maggie Leach	Response 1	Information related to the Middle Fork being part of the Upper Mississippi Sourcewater Protection Plan has been added.	X
MPCA, Maggie Leach	Comment 2	INTRO: Should MGS also be listed under State agencies? They are mentioned later in the plan.	
MPCA, Maggie Leach	Response 2	Information on the MGS has been incorporated into the text.	X
MPCA, Maggie Leach	Comment 3	Cht 1: Map 1A should be page 3, not 1	
MPCA, Maggie Leach	Response 3	Correction has been made.	X
MPCA, Maggie Leach	Comment 4	Cht 1, P 16 -- Aquifers – ¶2 Bedrocks aquifers... delete "s"	
MPCA, Maggie Leach	Response 4	Language has been changed.	X
MPCA, Maggie Leach	Comment 5	Cht 1, P 30 – Waterfowl Production Areas – last sentence: Table 1M listed the 12 WPAs ... should this be "lists"	
MPCA, Maggie Leach	Response 5	Language has been changed.	X
MPCA, Maggie Leach	Comment 6	Cht 2, P 2 – Streams. (TP<100 ppb). Should be ">"	
MPCA, Maggie Leach	Response 6	Language has been changed.	X
MPCA, Maggie Leach	Comment 7	Cht 2, P 3 - Water quality Monitoring - last line.....compiled into a formal database. Should be "compiled"	
MPCA, Maggie Leach	Response 7	Language has been changed.	X
MPCA, Maggie Leach	Comment 8	Cht 2, P 11 - Groundwater Contamination - last line... high probability of having elevate nitrate concentrations. Should this be "elevated"?	
MPCA, Maggie Leach	Response 8	Language has been changed.	X
MPCA, Maggie Leach	Comment 9	Cht 2, P 22 – Population and Household Projections – ¶2 -- 1 st sentence Each of the cities and two counties within the District are expected to experience varying levels of population and household growth over the next. Over the next what???	
MPCA, Maggie Leach	Response 9	This sentence has been completed.	X

Middle Fork Crow River Watershed District Comprehensive Plan
Draft Comprehensive Plan Review Comments and District Responses to Comments

Reviewer	Number	Subject	Require Plan Edit?
MPCA, Maggie Leach	Comment 10	Chtp 2, P 26 – 2 nd – 3 rd line ...macroinvertebrates) are also reduced. Sensitive .sh species and other life forms disappear and are ... Delete “.sh”	
MPCA, Maggie Leach	Response 10	Error has been corrected.	X
MPCA, Maggie Leach	Comment 11	Chtp 2, P 30 -- Common Compliance Problems – Problem # -- the number is missing	
MPCA, Maggie Leach	Response 11	Number 3 has been added.	X
MPCA, Maggie Leach	Comment 12	Chtp 2, P 32 – Local Regulation – last sentence ...classified as either an agriculture or transition river, depending on the segment. Are there no “urban” classifications for stream reach that flows through New London?	
MPCA, Maggie Leach	Response 12	There are no urban classifications of the Middle Fork Crow.	
MPCA, Maggie Leach	Comment 13	Chtp 2, P 33 -- ¶2 – 4 th line: installed several monitoring well around the infiltration basin. Add “s”	
MPCA, Maggie Leach	Response 13	Language has been changed.	X
MPCA, Maggie Leach	Comment 14	Chtp 2, P 35 – Feedlots -- ¶2 – 5 th line: ...provided information on an MPCA registration form and return it to the MPCA or, For consistency of tense	
MPCA, Maggie Leach	Response 14	Language has been changed.	X
MPCA, Maggie Leach	Comment 15	Chtp 3, P 8 - Stormwater Management - 2nd line: The District should cooperatively work other local governmental units... Insert “with”	
MPCA, Maggie Leach	Response 15	Language has been changed.	X
MPCA, Maggie Leach	Comment 16	Chtp 3, P 10 & 12 -- Wetland Preservation – 2nd line: ...these areas though the implementation of existing Federal and State wetland ... insert “r”	
MPCA, Maggie Leach	Response 16	Language has been changed.	X
MPCA, Maggie Leach	Comment 17	Chtp 3, P 16 – Wastewater Treatment – 1 st line: Diamond Lake is served individual sewage treatment systems, many of... insert “by”	
MPCA, Maggie Leach	Response 17	Language has been changed.	X
MPCA, Maggie Leach	Comment 18	Chtp 3, P 20 – River Restoration – last line: ...partners to restore section of the River to its natural state. Add “s”	
MPCA, Maggie Leach	Response 18	Language has been changed.	X
MPCA, Maggie Leach	Comment 19	Chtp 4, P 11 – Goal 6 – Obj A – Improve monitoring and analysis: Nothing mentioned about analysis/modeling of data such as FLUX, BATHUB etc.	
MPCA, Maggie Leach	Response 19	These analysis and modeling techniques have been added to Goal 6, Objective A, Initiative 57	X
MPCA, Maggie Leach	Comment 20	Chtp 4, Page 16 - Initiative 90 – Goal for number of newsletters/yr???	
MPCA, Maggie Leach	Response 20	Staff time and budget constraints may dictate the number of newsletters each year, therefore the District chose not to include a specific number.	
BWSR, Tom Fischer	Comment 1	Items I ask that you include in the Plan are: 1) An Executive Summary 2) The District's Mission Statement 3) A page listing the District's mailing address, telephone and fax numbers, e-mail address, current board of managers (addresses and telephone numbers), current staff, current attorney (address and telephone) 4) A statement up front that specifies the time span of this Plan	

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BWSR, Tom Fischer	Response 1	1) An Executive Summary has been added. 2) Initiative 90 has been added for the creation of a mission statement. 3) this information is listed on the back inside cover of the plan 4) the plan timeframe has been added.	X
BWSR, Tom Fischer	Comment 2	The maps are very informative. You might consider adding a statement that larger maps may be requested by contacting the District. Some colors on some maps are difficult to differentiate, especially at the small scale of the maps. Consider revising if possible.	
BWSR, Tom Fischer	Response 2	Language has been added stating that larger maps can be obtained by contacting MMDC. The District currently does not have the capability of creating large maps.	X
BWSR, Tom Fischer	Comment 3	Chapter 1. Demographic context. Information provided speaks to current numbers. I recommend adding a sentence that refers the reader to information found in Chapter 2 pages 22-23 that addresses population projections.	
BWSR, Tom Fischer	Response 3	Requested change has been made.	X
BWSR, Tom Fischer	Comment 4	Page 26. Table 1J. Could wetlands data from page 12 be referenced or included?	
BWSR, Tom Fischer	Response 4	Discussion on relative land area of wetlands in the District has been incorporated into the NWI section on Chapter 1, Page 12.	
BWSR, Tom Fischer	Comment 5	Chapter 2. Page 22. Last paragraph at the bottom of the page. First sentence is open ended.	
BWSR, Tom Fischer	Response 5	Sentence has been completed.	X
BWSR, Tom Fischer	Comment 6	Chapter 3. Lead off this chapter with Map 1B found on page 7 and Table 1F found on page 8, both found in Chapter 1.	
BWSR, Tom Fischer	Response 6	There is reference provided to Map 1B and Table 1F. The District chose not to duplicate maps in the plan.	
BWSR, Tom Fischer	Comment 7	Chapter 3. Could each individual subwatershed map have an arrow added showing the approximate location of the flow outlet?	
BWSR, Tom Fischer	Response 7	Changes have been made which highlight the river and arrows have been added which indicate direction of river flow	X
BWSR, Tom Fischer	Comment 8	Chapter 3. Could you explain the small tables shown on each narrative page (ranking, color highlight)?	
BWSR, Tom Fischer	Response 8	Additional language has been added to explain the ranking system.	X
BWSR, Tom Fischer	Comment 9	Chapter 4. Page 2. C. Prioritization of Initiatives. Does this language mean that final decision of priorities was determined by the results of the open house? Did the board of managers not have a final decision in the priorities?	
BWSR, Tom Fischer	Response 9	All of the actions of the watershed are based on the decision of the board. The recommended prioritization provided by citizens and agency representatives is acknowledged by and deemed valuable to the board. However, an annual plan which will be based on funding and staffing constraints and opportunities will determine year to year priorities.	
BWSR, Tom Fischer	Comment 10	Chapter 4. The matrixes shown on pages 3 through 15 have some initiatives highlighted in a yellow or green color. I do see some language found within the last paragraph on page 2 that hints to what it means. Please clarify.	
BWSR, Tom Fischer	Response 10	Language has been added to clarify the meaning of the highlighted text. Yellow highlighted initiatives are urgent, green are important.	X

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BWSR, Tom Fischer	Comment 11	Chapter 4. Pages 3 – 15. If they color highlighted initiatives are Urgent or Important, why are they not listed first instead of mixed in among the other initiatives? As for the non-highlighted initiatives, if they are not urgent or important, what are they?	
BWSR, Tom Fischer	Response 11	They are initiatives and actions that the board will seek to implement. The timeframe for implementing may change based on financial and staffing resources.	
BWSR, Tom Fischer	Comment 12	Chapter 4. Pages 3 – 15. Is there any significance to the numbering of the initiatives?	
BWSR, Tom Fischer	Response 12	There is no significance to the numbering. The numbers are for ease of reference and organization.	
BWSR, Tom Fischer	Comment 13	Chapter 4. Page 11. Initiative 55. Proposed Timeframe. Change to just say 2008.	
BWSR, Tom Fischer	Response 13	Change has been made.	X
BWSR, Tom Fischer	Comment 14	Chapter 4. I don't see much discussion about addressing failing or noncompliant individual sewage treatment systems, yet I read information in the Plan that speaks to excess nutrients as well as the estimated percentage of failing or noncompliant individual sewage treatment systems in the District. The Diamond Lake subwatershed information is the only one that speaks about individual sewage treatment systems. I would think this issue would be a concern throughout the District.	
BWSR, Tom Fischer	Response 14	Proper treatment of all wastewater is a concern throughout the watershed. Information and a summary of wastewater issues (municipal and private) is contained in Chapter 2 pages 32-35. There are several initiatives contained in Chapter 4, Page 5, Objective C which relate to these issues. Nest Lake subwatershed has been added to Diamond Lake subwatershed as a priority area so that efforts can be targeted in the areas with the greatest known concern. The Revolving Loan Fund program initiative for upgrading septic systems is a priority for the entire watershed district.	X
BWSR, Tom Fischer	Comment 15	Chapter 4. A few initiatives I see missing that could fit in with Goal 8 on page 15 could speak to monthly board of managers meetings, District office expenses and equipment, and Plan revision process during year nine of this ten-year Plan.	
BWSR, Tom Fischer	Response 15	Goal 8 Objective A regarding maintaining an active advisory committee has been changed to be inclusive of the board as well. Goal 8, Objective H has been added regarding plan revision process. Planning for office expenses and equipment will be conducted through the annual budgeting process.	X
BWSR, Tom Fischer	Comment 16	Chapter 4. I'm assuming staff time is included in most of the initiatives. What about other costs to adequately staff the district? Are there any thoughts to adding staff in the future?	
BWSR, Tom Fischer	Response 16	Initiative 86 refers to a goal of developing a staffing plan to ensure that the goals and objectives are met.	
BWSR, Tom Fischer	Comment 17	At the end of Chapter 4 there should be a table showing the total dollars needed to implement this Plan. It could be by year or the full ten-year period for the entire watershed, or it could be for each specific subwatershed by year or for the full ten-year period. Refer to Buffalo Creek Watershed District's Overall Plan, Chapter 7, page 2.	

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BWSR, Tom Fischer	Response 17	Implementing all the initiatives of this plan will require significantly more funding than the District's \$250,000 annual levy. Therefore, the District will pursue all funding mechanisms possible, including grant funding. Additionally, the District's role in many initiatives is more of a supporting or technical role. The costs associated with implementing the initiatives in these cases will not rest solely on the District. Additionally, since this is the first plan of a newly created District we have no reference to trends in project costs. Therefore constructing an overall cost for the entire plan implementation is difficult to gage. Instead, estimated costs are provided on an initiative basis.	
BWSR, Tom Fischer	Comment 18	Chapter 4. If the District continues to budget the maximum allowed each year (\$250,000), then the Plan should reflect utilizing this amount...or even more with successfully obtaining other grants.	
BWSR, Tom Fischer	Response 18	Planning for the costs of implementation efforts will be conducted on an annual or multi-year basis depending upon financial constraints and available additional funding. Refer to BWSR, Tom Fischer Response 17.	
BWSR, Tom Fischer	Comment 19	Chapter 5. Refer again to Buffalo Creek Watershed District's Overall Plan Chapter 7, pages 2-3. I ask that you include the following topics in this Plan: Schedule, and Role of the District in Implementation.	
BWSR, Tom Fischer	Response 19	Language has been added to Chapter 4 regarding the plan implementation which addresses these issues.	X
BWSR, Tom Fischer	Comment 20	In closing, I want to thank you and the District for allowing me to offer what assistance I have been able to provide throughout this planning process. There has been ample opportunity for public input as well as input from local government units and state and federal agencies. The process has been a lengthy, but it will result in a very worthy Plan for the District. We all look forward to completing the final steps in the process to acquire a state-approved District Plan. Once the process is completed, the District can get on with the business of implementing resource management activities with the residents of the watershed to accomplish the goals, objectives and initiatives of the Middle Fork Crow River Watershed District Watershed Management Plan.	
BWSR, Tom Fischer	Response 20	Comment acknowledged.	
Stearns SWCD, Wayne Cymbaluk	Comment 1	Sentence above Table 1E where it states Calhoun and Monongalia Lakes have same littoral area. Should it be Diamond instead of Monongalia?	
Stearns SWCD, Wayne Cymbaluk	Response 1	Changes have been made which clarify that for both Calhoun and Monongalia lakes, the size of the lake is equal to the littoral area.	X
MN DNR, Cheryl Heide	Comment 1	Chapter 2, Page 1. Under the heading "Lakes" it may be worth indicated that although Green Lake's TSI values are within the mesotrophic category, the lake just barely exceeds oligotrophic criteria. This is very unique for West Central Minnesota.	
MN DNR, Cheryl Heide	Response 1	Language has been added to highlight this point.	X
MN DNR, Cheryl Heide	Comment 2	Chapter 2, Page 2. Under the heading "Streams" we recommend adding a graphical comparison for Total Phosphorus concentrations for minimally impacted streams within the Central Hardwoods Ecoregion.	
MN DNR, Cheryl Heide	Response 2	A line representing 80 ppb as the TP concentration for minimally impacted streams has been added (based on conversations with Skip Wright and Selected water quality characteristics of minimally impacted streams from Minnesota's seven ecoregions. MPCA, 1993 Steve Heiskary and Sylvia McCollor).	X

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MN DNR, Cheryl Heide	Comment 3	Chapter 2, Page 12. Under the heading Wetland Preservation/Restoration there is a statement that wetland restoration activity within the district has been minimal. While in fact efforts within the watershed of the district have been substantial, including: restoration of Timber Lake - a 308 acre drained lake, a MNDOT wetland mitigation project, two Kandiyohi County wetland mitigation bank projects, and ongoing work by the USFWS, BWSR, and NRCS. Wetland restoration does need to be expanded through the District but the plan should recognize past efforts.	
MN DNR, Cheryl Heide	Response 3	Language has been added referencing these projects.	X
MN DNR, Cheryl Heide	Comment 4	Chapter 2, Page 18. Under the heading "Invasive Aquatic Species", the first sentence should be revised to include the term invasive aquatic plant species.	
MN DNR, Cheryl Heide	Response 4	The change has been made.	X
MN DNR, Cheryl Heide	Comment 5	Chapter 2, Page 20. Under the heading "Other Species" include Common Carp.	
MN DNR, Cheryl Heide	Response 5	Common Carp has been added.	X
MN DNR, Cheryl Heide	Comment 6	Chapter 2, Page 22. Under the heading "Eurasian Watermilfoil and Aquatic Plant Management Plan" include a short summary of the findings from the report.	
MN DNR, Cheryl Heide	Response 6	Language has been added which highlight the results of cited report.	X
MN DNR, Cheryl Heide	Comment 7	Chapter 2, Page 22. Under the heading "Erodible Soils" it should be noted that the Alexandria Moraine, which includes the Green Lake Hills, possesses the highest concentration of highly erodible soils in the district. It is also experiencing some of the heaviest development pressure and is not suitable for medium to high-density residential development.	
MN DNR, Cheryl Heide	Response 7	Language has been added to address this issue.	X
MDH, Mike Howe	Comment 1	(Introduction, page xiii)1- The second sentence could be better stated as: "The MDH has permit and regulatory authority for construction of wells, and for monitoring public water supply facilities as required by the Safe Drinking Water Act (SDWA). 2- The last sentence would be better worded as: "Currently, through source water protection requirements of SDWA, the MDH is assisting public water suppliers in developing wellhead protection plans.	
MDH, Mike Howe	Response 1	The change has been made.	X
MDH, Mike Howe	Comment 2	(Chapter 4, page 8....Protect hydrologically sensitiveareas) >>For protection of the groundwater resource, it would be appropriate to have an initiative in place which promotes 1) sealing of abandoned or unused wells, 2) registration and proper management of Class V Injection wells, and 3) adequate spill response for spills and leaks that threaten surface or groundwater supplies.	
MDH, Mike Howe	Response 2	The District chose not to list out specific BMP's in order to be more inclusive. These initiatives are covered through existing language contained in the objectives listed in Goal 2.	
MDH, Mike Howe	Comment 3	(Chapter 4, page 11, 12....Resource Studies & Inventories) Initiative 63 – Groundwater Contamination Vulnerability Inventory – this may already be partially or wholly addressed thru the Class V Sensitivity mapping completed by MDH.	
MDH, Mike Howe	Response 3	Comment acknowledged and as this initiative is implemented, this resource will be considered and used.	

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MDH, Mike Howe	Comment 4	>>For future development of wellhead protection areas or geologic atlas, the district could consider an initiative of gps locating of wells that have a well log but are not accurately located. (Contact MDH for further information & technical assistance).	
MDH, Mike Howe	Response 4	Initiative 64 has been changed it to include a complete well inventory, not just an inventory of abandoned wells.	X
MDH, Mike Howe	Comment 5	>>For similar reasons, the District could consider monitoring the static water levels in specified wells to help determine hydraulic gradients. (Contact MDH for further information & technical assistance).	
MDH, Mike Howe	Response 5	This type of study is already covered through various initiatives listed under Goal 6.	
MDA, Becky Balk	Preface to comments	The Minnesota Department of Agriculture (MDA) would like to recommend some additional initiatives to add to the appropriate goals and objectives. They are as follows: Agricultural chemical use and potential impacts to groundwater (Submitted by John Hines, 651-201-6694): The Crow River watershed is an area of intense agricultural production. The watershed also contains many areas where groundwater is susceptible to surface activities. It is imperative that the organization work to protect this water resource from human impacts. The MDA maintains a groundwater quality monitoring program in a multi-county region that includes the Crow River watershed. Pesticides and nutrients have been detected in the groundwater within the watershed boundaries. MDA recommends review of monitoring data and information regarding pesticides in groundwater and promotion of applicable pesticide water quality BMPs. The MDA Monitoring and Assessment program may be contacted for pesticide water quality data or for information on monitoring water resources. You may contact Jim Ford at (651)201-6672 or by e-mail at jford@mda.state.mn.us, or check the MDA web site for water quality data and associated management practices at (http://www.mda.state.mn.us/appd/ace/maace.htm). Contact Joe Zachmann at (651)201-6588 or zachmann@mda.state.mn.us for information on the state pesticide management plan. Areas of the highest priority are land areas where the groundwater is unconfined, and where water present at the ground surface infiltrates and recharges local and regional aquifers.	
MDA, Becky Balk	Comment 1		
MDA, Becky Balk	Response 1	The District chose not to list out specific BMP's or study efforts in order to be more inclusive. The initiatives mentioned above are covered through existing language contained in the objectives listed in Goal 2 and Goal 6.	
MDA, Becky Balk	Comment 2	Crow River watershed's intense agricultural production provides a readily available source of potential contamination to the water resources. The watershed also contains many geographic areas that are susceptible to runoff from the land surface to rivers and streams. Steeper more poorly drained areas containing erodible soils are of the highest concern, although the entire watershed needs to be watched. It is imperative that the organization work to protect its surface water resources from human impacts. The MDA maintains a surface water quality monitoring program throughout the state and has detected pesticides in other forks of the Crow River. MDA recommends reviewing current and ongoing water quality sample results and promote BMPs appropriate for specific conditions within the watershed. To assist in accomplishing this the MDA Monitoring and Assessment program may be contacted for pesticide water quality data or for information on monitoring water resources. Again, you may contact Jim Ford at (651)201-6672 or by e-mail at	

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		<p>jford@mda.state.mn.us. Check the MDA web site for water quality data and associated management practices http://www.mda.state.mn.us/appd/ace/maace.htm, and Joe Zachmann at (651)201-6588 or jzachmann@mda.state.mn.us for information on the state pesticide management plan. Surface water is a concern throughout the watershed although it is of particular concern where agricultural lands are in close proximity to surface water bodies.</p>	
MDA, Becky Balk	Response 2	<p>The District chose not to list out specific BMP's in order to be more inclusive. The initiatives mentioned above are covered through existing language contained in the objectives listed in Goal 1 and Goal 6.</p>	
MDA, Becky Balk	Comment 3	<p>Manure Management and ISTS: ISTS can be a major source of fecal coliform in surface waters. There are a great number of non-compliant ISTS in MN and many millions of dollars will be needed to fix these systems. Because of this large task, it important to continue to develop strategies to address this issue. 2) According to the University of Minnesota, land application of manure, under certain circumstances, has the potential to be a larger contributor of nutrient loading to waters than open lot feedlots. The development of manure management and nutrient management plans will help ensure that producers have the tools to apply manure at agronomic rates and reduce the potential for impacts to surface and ground waters. The MDA recommends seeking additional funding sources to help assist landowners in upgrading ISTS in the County 2) Continue education and outreach efforts on manure management and involved livestock producers in watershed projects, and 3) provide technical and financial assistance for producers to assist them in adopting practices to reduce the impacts from manure runoff. The following resources are available to assist: 1) AgBMP Loans, 2) Farm Bill (EQIP and future CSP), 3) State Cost Share, and 4) 319 grants. Areas of greatest concern are lakeshore areas and rural villages where ISTS systems need to be upgraded. Open lot feedlots near resources of concern and land where manure is applied.</p>	
MDA, Becky Balk	Response 3	<p>The District agrees that these issues are important and through the existing initiatives, such as education programming, outreach efforts and the need to seek out all possible financial assistance has already addressed these suggestions.</p>	