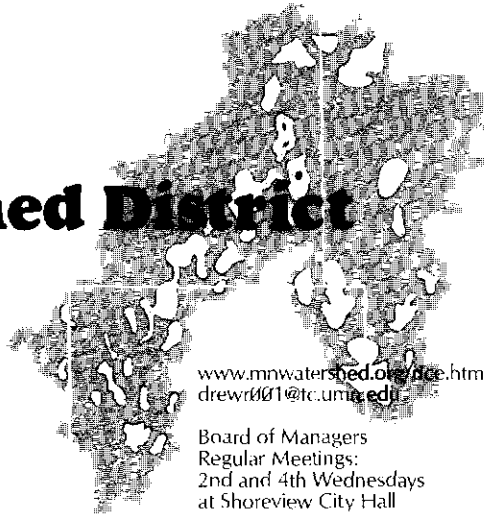




1 Approved at the 1-10-01 Board Meeting.

# Rice Creek Watershed District

3585 N. LEXINGTON AVENUE, SUITE 330  
ARDEN HILLS, MINNESOTA 55126-8056  
PHONE (651) 766-1191 FAX (651) 766-4196



www.mnwatershed.org/Rice.htm  
drewr001@tc.umn.edu

Board of Managers  
Regular Meetings:  
2nd and 4th Wednesdays  
at Shoreview City Hall

KATE DREWRY, District Admin.  
BONITA TORPE, Admin. Assist.

## MINUTES OF REGULAR MEETING OF THE RICE CREEK WATERSHED DISTRICT BOARD OF MANAGERS

11 **Shoreview City Hall Council Chambers**  
12 **4600 North Victoria Street**  
13 **Shoreview Minnesota**  
14 **December 27, 2000**

### ROLL CALL

17 Present: President Peterson, 1<sup>st</sup> Vice-Pres. Waddell, 2<sup>nd</sup> Vice-Pres. Braathen,  
18 Absent: None Secretary Cardinal, Treasurer Hult

20 Also Present: Robert Vogel, Advisory Committee Liaison  
21 Staff: Administrator Drewry, Admin. Ass't. Torpe, Insp./Tech. Brough  
22 Consultants: District Engineers Bill Weidenbacher and Carl Almer of Montgomery Watson  
23 Visitors: Jim Leroux, Manager-Appointed from Washington County, observing the Board meeting  
24 Joe Preiner re: AnCo Ditch 53-62  
25 Sara Peterson of Dorsey & Whitney, for Chuck Jungmann, PA#00-156  
26 Emmons & Olivier of E & O Resources, observing the meeting

### CALL TO ORDER

28 Pursuant to due call and notice thereof, a Regular Meeting of the Rice Creek Watershed District Board of Managers was called to  
29 order by President Peterson on December 27, 2000, at 7:00 p.m.

### SETTING OF THE AGENDA

31 Under ACTION ITEMS, no additions nor deletions. Under ITEMS FOR DISCUSSION, no additions nor deletions. *The Board*  
32 *adopted the Agenda as mailed, by consensus.*

### PUBLIC HEARINGS/SPECIAL PRESENTATIONS

36 None.

### READING OF THE MINUTES AND THEIR APPROVAL

39 1. **Minutes of December 13, 2000, Board Meeting.** *Motion to dispense with the reading of the minutes and approve them*  
40 *as mailed: Cardinal/Braathen.* During discussion, Hult said that Lines 220-222 state that the materials Engineer Weidenbacher  
41 referred to were not yet given to the Administrator nor to the Managers, but that he [Hult] and other Managers actually had a copy  
42 in their hands when the request was made. Torpe said that did not reflect what the Engineer responded to Mr. Haik. Drewry  
43 clarified that Haik's request was for the additional materials Engineer Weidenbacher had referred to which were not included in  
44 the Engineer's Report (which the Managers already had). As a compromise and for clarity, the Lines were rewritten to read:  
45 "Paul Haik requested a copy of the latest materials referenced by District Engineer at tonight's meeting regarding Washington  
46 JD2. Engineer responded that the materials are only in a rough draft state, and have not yet been distributed to the Managers.  
47 He will forward drafts to the District Administrator for review, but they are not yet available for public distribution." *Motion-maker*  
48 *and -seconded approved the re-writing of the sentence for clarity. Carried 5-0.*

### PERMIT APPLICATIONS REQUIRING BOARD ACTION

51 The following applications, having been reviewed by District Engineer and Staff, were presented/discussed/acted upon in accord-  
52 ance with Engineer's Recommendation for benefit of a Manager, the Applicant, or interested person in the audience:

No.	Applicant	#Plan Type	Description/Location	*Recommendation
54	00-156 Chuck Jungmann	WA	"After-the-Fact" plan for approx. 350 sq.ft. of Type 3 wetland fill at 2220 Acorn Road, Roseville.	TWAFAA pro 2 items
56	<i>Motion to adopt the District Engineer's Findings and Recommendation as contained in the Engineer's Report dated 12-22-00 to TWAFAA PA#00-156 pro 2 items: Cardinal/Braathen. Carried 5-0.</i>			

59 Administrator Drewry referenced a letter dated 12-26-00 from SKB Environmental directed to herself, copied to  
60 Managers this evening, which states that "LLC is withdrawing its permit application [00-112: F & W Properties] at this time to  
61 review the viability of the project in the RCWD jurisdiction." The letter explained SKB's frustration with addressing the concerns  
62 of Mr. Almer, Ms. Hanson and Ms. Drewry, stating that as soon as SKB Environmental submits required exhibits, there are more  
63 requirements, which they interpret as inconsistencies. Engineer Almer explained that with each submittal SKB Environmental

### BOARD OF MANAGERS

A.J. CARDINAL, SR.  
ANOKA COUNTY

TOM WADDELL  
RAMSEY COUNTY

ROBERT M. HULT  
WASHINGTON COUNTY

ORDEEN J. BRAATHEN  
RAMSEY COUNTY

EUGENE L. PETERSON  
ANOKA COUNTY

64 becomes more detailed, and of course, with more detail, there is more clarification and refining necessary. He explained that  
 65 tonight the Application is before the Board with a TWAFAA recommendation, indicating the Applicant is close to meeting District  
 66 requirements. Administrator Drewry suggested that the Board act on the recommendation despite their request.

67 No.	Applicant	#Plan Type	Description/Location	*Recommendation
68 00-112	F&W Properties	FSD WA	Concrete batch plant, transfer station, and multiple-use building to be known as Blaine Environmental Campus, resulting in 10±Ac. new impervious area on 40±A loc. .75 mi. north of Wall Rd & 1 mi. west of I-35W, Blaine.	TWAFAA pro 6 items w/6 Stipulations

73 *Motion to adopt the District Engineer's Findings and Recommendation as contained in the Engineer's Report dated 12-22-00 to TWAFAA PA#00-112 pro 6 items w/6 Stipulations: Cardinal/Waddell. Carried 5-0.*

76 **CONSENT AGENDA**

77 *It was moved by Cardinal and seconded by Waddell to APPROVE, TABLE WITH AUTHORIZATION FOR ADMINISTRATIVE ACTION (TWAFAA), or TABLE the list of Permit Applications (PAs) which follows, in accordance with District Engineer's Findings and Recommendations, as contained in the Engineer's Report dated 12-22-00:*

78 No.	Applicant	#Plan Type	Description/Location	*Board Action
79 99-49	SuccBdr, AnCo HD	S&UC	Improve 2.2±mi. of Lexington Ave. fm Emil St. north to North Road, Blaine, Lexington, Circle Pines & Shoreview.	TWAFAA pro 5 items w/1 Stipulation
83 99-64	Jerry Papenheim	LDP WA	Excavate 60,000± sq.ft. wildlife pond riparian Rice Creek to include a 3-lot subdivision, 56± A at 13807 Furman Street NE, Columbus Township.	TWAFAA pro 3 items
85 99-75	R&R Leasing	RG S&UC WA	Amendment of a 950± lin.ft. cul-de-sac to include 15±-A wetland (within conceptual 40-A industrial park riparian Clearwater Creek) 0.25 mi. north of Cedar St. & east of 20 <sup>th</sup> Ave. N, Centerville.	TABLE pro 7 items w/5 Stipulations
87 00-122	Code Welding & Mfg.	FSD WA	0.38±A comm'l building, 5.5±A north of 101 <sup>st</sup> Ave. NE & 1/3 mi. east of Flanders St. NE, Blaine.	TWAFAA pro 3 items
89 00-135	Robert Osterbauer	LD WA	Arcand Estates, 9 SFR lots on 90.5±A, including a 28±Ac. wetland banking site loc. south & east of CSAH 7 (Hamlet Ave. N), City of Grant.	TABLE pro 9 items w/4 Stipulations
91 00-154	Daniel Hall	WA	Excavate wildlife pond at 12860 Lever St. NE, Blaine.	No permit required
93 00-155	Frattalone Exc. & Grading, Inc.	WA	Maintenance excavation of water quality pond north of 14 <sup>th</sup> St. NW & west of Silver Lake Rd, New Brighton.	APPROVAL
95 00-157	Albert Emola	FSD	Construct 400 sq.ft. addn/deck on lot riparian White Bear Lake, 1.4±A, 50 Peninsula Road, Dellwood.	TWAFAA pro 3 items w/1 Stipulation
97 00-158	Rommismo Family, LP	FSD	5.8±A bituminous pkg & storage area on 10.6±A lot at 3575-85 <sup>th</sup> Ave. NE, Blaine.	TABLE pro 15 items w/4 Stipulations
99 00-159	Francis Jacobs	FSD	Construct SFR riparian Ram/Wash JD#1, 0.7±A at 2594 Buffalo Street, White Bear Township.	TWAFAA pro 2 items
101 00-160	City of Blaine	WA	"After-the-Fact" plan for unspecified amt. wetland alteration assoc'd w/grading activities at SW end of Loch Ness Lake in Loch Ness Park, Blaine.	APPROVAL w/1 Stipulation
103 00-161	Cyril Tschida	WA	"After-the-Fact" plan for 1,200 sq.ft. of wetland restoration (total unauthorized w/l fill is 1,600±sq.ft.) at 260 Linda Avenue, Lino Lakes.	TWAFAA pro 4 items

105 *Motion carried 5-0.*

106 #KEY: FSD=Final Site Drainage LD=Land Development S&UC=Street & Utilities Construction  
 107 RG=Rough Grading WA=Wetland Alteration

108 \*TWAFAA = Table With Authorization For Administrative Action pro = pending receipt of

130 **OPEN MIKE (LIMIT 3 MIN./PERSON)**

131 At 7:18 p.m., Joe Preiner rose to address the Board, querying where his WCA Exemption Certificate is at, so that he can lower  
 132 the culvert in AnCo Ditch 53-62 and complete his project. He stated that he has not received the minutes of the last meeting, so  
 133 he does not know what happened. The Board President responded that the Board has just acted on those minutes this evening.  
 134 Preiner said that he has taken the Public Review copy from the podium and has been reading them. Managers inquired whether  
 135 Preiner had received a copy of the letter Attorney Ulrich drafted to Mr. Preiner for the Administrator's signature and which was  
 136 then mailed to Attorney Paul Haik. Mr. Preiner stated that he had not received the letter and asked the Board why they would  
 137 send a letter intended for him to Paul Haik, since Paul Haik is not his Attorney. Administrator Drewry said it was Attorney Ulrich's  
 138 understanding that Mr. Preiner was now represented by Attorney Haik, since Attorney Haik had filed a WCA appeal to BWSR on  
 139 Mr. Preiner's behalf, and apologized if this was a *misunderstanding*. One of the Managers quickly gave his copy of the letter to  
 140 Mr. Preiner. It clarified the matter of the WCA Exemption, stating that Mr. Preiner has had for several years an unappealed  
 141 exemption for any lowering of water in the wetlands which may occur as a result of his lowering the culvert in AnCo Ditch 53-62  
 142 which occurs on his property. It also clarified the matter of the U.S. Corps of Engineers' Federal Exemption. Preiner also sought  
 143 an update from Tony Brough on the sediment removal job in AnCo Ditch 53-62 south of Lexington Avenue down to Fire Barn  
 144 Road in Circle Pines, stating that there has been no action. Mr. Preiner left the podium and the  
 145 Open Mike was deemed closed at 7:25 p.m. because no other persons rose to address the Board.  
 146

147 **ADDITIONAL ITEMS REQUIRING BOARD ACTION**

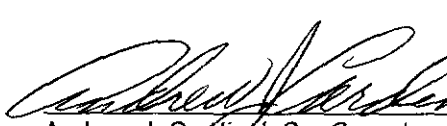
- 148 1. **Consider Approval of Agreement for Legal Services with H. Sheff & M. Ulrich.** Motion to approve agreement for  
 149 legal consulting services to be provided during Year 2001 by Sheff & Ulrich at \$100/hr. plus mileage reimbursement at  
 150 \$0.32/mile: Hult/Peterson. Carried 5-0.  
 151  
 152 2. **Consider Renewal of Property Casualty Insurance Program with League of MN Cities Insurance Trust.** Drewry  
 153 reviewed briefly the LMC quote, which showed an increased amount caused by increased budgetary expenditures, and the  
 154 rationale for purchase of optional excess liability coverage in amount of \$1 million. Discussion. Motion to accept premium as  
 155 quoted at \$9,638 for the Years 2000-2001 without the optional excess liability coverage: Waddell/Braathen. Carried 5-0  
 156  
 157 3. **Consider Accounts Payable Dated 12-21-00, Prepared by Boyum & Barends, CPAs.** Motion to approve the  
 158 Accounts Payable as listed in the amount of \$182,623.80: Hult/Cardinal. Carried 5-0.  
 159

160 **ITEMS FOR DISCUSSION AND INFORMATION**

- 161 1. **Notice of Appointment of Jim Leroux to RCWD Board of Managers Effective 1-18-01.** Managers reviewed a copy  
 162 of a letter dated 12-19-00, addressed to Mr. James Leroux, from Chair Dennis Hegberg of the Washington County Board of  
 163 Commissioners, in which he informs that the County Board has appointed Mr. Leroux to the RCWD Board of Managers as a  
 164 representative of Washington County for a 3-year term beginning 1-18-01, to assume the chair presently held by Mr. Hult [whose  
 165 term ends 1-17-01]. The Managers congratulated Jim Leroux and welcomed him warmly to the Board.  
 166  
 167 2. **Memo re: Resumes for Consideration Prior to Interviews for Program Coordinator Position.** Administrator  
 168 Drewry noted that the Managers are receiving a cover memo and the top six resumes of some 75 applicants for the Program  
 169 Coordinator position. Interviews begin Friday at 1:30 p.m.; she welcomed Managers to be present and assist.  
 170  
 171 3. **TCAAP Cleanup Progress Report.** The "Summer 2000 TCAAP Cleanup Progress Report" dated December 2000, was  
 172 distributed in Agenda packs, and one highlight noted was the good news that deep groundwater cleanup time previously  
 173 estimated at 80 years has been pushed back to 40 years, due to progress made in source removal (soil cleanup), groundwater  
 174 pumping, and natural processes.  
 175  
 176 4. **Billing Report through 12-22-00.** This item was reviewed informationally.  
 177  
 178 5. **January 2001 Meeting Schedule Memo.** Distributed for Managers' use during January.  
 179  
 180 6. **Reminder: Advisory Committee Meeting Liaison on 1-3-01 is Manager Cardinal.** Duly noted by Mr. Cardinal.  
 181

182 **ADJOURNMENT**

183 At 7:41 p.m., motion was made to recess or <sup>\*</sup>continue the meeting to 1-2-01 at 9:00 a.m. at the Washington County District Court  
 184 in Stillwater, Minnesota: Braathen/Cardinal. Carried 5-0. President Peterson declared the meeting to be in recess.  
 185

186  
 187  
 188   
 189 Andrew J. Cardinal, Sr., Secretary  
 190 Board of Managers

191  
 192 bct  
 193

\* THIS MTG WAS ADJOURNED ON 1-10-01.

194 c: Managers (5)  
195 District Attorney  
196 District Engineers (2)  
197 District Accountant  
198 Advisory Committee (7)  
199 Municipalities (30)  
200 Blaine Councilman Dave Clark  
201 Anoka County Commissioners (3)  
202 Chair, Anoka County Board of Commissioners  
203 Chair, Hennepin County Board of Commissioners  
204 Ramsey County Commissioners (2)  
205 Chair, Ramsey County Board of Commissioners  
206 Washington County Board of Commissioners (1)  
207 Ramsey Co. DPW: Attn: Terry Noonan/Kathy Jaschke  
208 MN Board of Water & Soil Resources, Attn: P. Belfiori  
209 MN/DNR, Attn: Dale Hornuth  
210 MN/DNR Fisheries, Attn: David Zappetillo  
211 Anoka Conservation District  
212 Hennepin Conservation District  
213 Ramsey Soil & Water Conservation District  
214 Washington Soil & Water Conservation District (4)  
215 St. Paul Water Utility, Attn: B.Bullert & D.Wagner  
216 Metropolitan Council, Attn: Marcel Jouseau  
217 MPCA Clean Lakes, Attn: Mark Tomasek  
218 MPCA Bio-Monitoring, Attn: Mark Gemes  
219 Brown's Creek Watershed District  
220 Capitol Region Watershed District  
221 Comfort Lake/Forest Lake Watershed District  
222 Coon Creek Watershed District  
223 Minnehaha Creek Watershed District  
224 Ramsey-Washington Metro Watershed District  
225 Valley Branch Watershed District  
226 White Bear Lake Conservation District  
227 Loren Hentges  
228 Joe Preiner  
229 John Waller  
230 Ann Baker, *St. Paul Pioneer Press*  
231 Hannah Tilsen, *The Hugonian*  
232 Fran Miron  
233 Paul Haik, Krebsbach & Haik  
234 Glenn Rehbein Cos.

**TABLE 9-1  
IMPLEMENTATION PLAN 2000-2005**

<u>Number</u>	<u>Relative Priority (1=highest)</u>	<u>Description</u>	<u>Subwatershed</u>	<u>Approx. Cost *</u>
14.	1	Demonstration Projects for Stormwater Infiltration Practices	Various—throughout District	\$ 50,000/yr.
15.	1	Establish Fund for Acquisition of Conservation Easements for Flood-prone Lands and Water Quality Protection	Various—throughout District	\$250,000/yr.
16.	1	Cost-share Program for Feedlot Management & Livestock Exclusion Projects (water quality improvement)	Lino Chain of Lakes Hardwood Creek & Upper Rice Creek	\$ 50,000/yr.
17.	1	Cost-share Program for Municipal Stormwater Water Quality Retrofit Projects (water quality improvement)	Various—throughout District	\$100,000/yr.
18.	1	Cost-share Program for Stream Bed & Bank Stabilization (water quality & flow conveyance protection)	Various—throughout District	\$ 50,000/yr.
19.	2	Cost-share Program for Lake Vegetation Management (control of Curlyleaf pondweed & Eurasian watermilfoil & establishment of native shoreline vegetation)	Various—throughout District	\$ 25,000/yr.
20.	1	Water Quality & Quantity Monitoring Program	Various—throughout District	\$150,000/yr.
21.	1	Water Quality & Quantity Modeling/ Studies	Various—throughout District	\$ 75,000/yr.
22.	2	Wetland Inventories & Management Plans	Upper Rice Creek Hardwood Creek	\$ 25,000/yr.
23.	1	Administration of Regulatory (Permit) Program	Various—throughout District	\$150,000/yr.
24.	1	Public Information & Education Program	Various—throughout District	\$ 50,000/yr.
25.	1	Stream & Ditch Inspection & Maintenance	Various—throughout District	\$ 75,000/yr.
26.	2	Maintenance Fund for Long Lake & Locke Lake Sedimentation Basin Clean-outs	Rice Creek Long & Locke Lakes	\$ 75,000/yr.

\*Note—costs are preliminary and will be refined after final project/program design

## PROJECT DESCRIPTIONS

1. **Centerville Lake Restoration.** This project is the second phase of activities designed to improve the lake water quality and follows upon a bottom sediment alum treatment completed by the District in 1998. Project elements will include modification of the control structure between Centerville and Peltier Lakes to hydrologically isolate Centerville from Peltier and exclude rough fish, construction of a wetland treatment basin for incoming flows from LaMotte ditch at its confluence with the Lake on Anoka County Park land, control of Curlyleaf Pondweed through extensive mechanical harvesting and enhancement of native shoreline vegetation. This will be a cooperative effort with Anoka County Parks and the St. Paul Water Utility. Refer to page 7-3 of the Plan and the Centerville/Peltier Lakes Diagnostic Study (available at District office) for further background information.
2. **Lower Hardwood Creek Treatment Basin/Impoundment.** Page 7-5 of the Plan provides background and describes an earlier version of this project, which is aimed at improving the water quality of Rice Creek and the Chain of Lakes through reduction of the phosphorus load delivered to Rice Creek. The expanded project includes a sedimentation basin in conjunction with FeCl or alum dosing, as well as a wetland treatment basin for further "polishing" of the water prior to discharge to Rice Creek. It is anticipated that these basins would be located downstream of I35E in Anoka County. Refer to the Centerville/Peltier Lakes Diagnostic Study for a discussion of alternatives considered and further background information.
3. **Schuneman Marsh Restoration.** The scope of this project continues as described on page 7-6 of the Plan, however, the cost estimate has been increased to \$300,000 to reflect higher estimates for easement acquisition and possible excavation to help de-channelize the flow-through conditions.
4. **Howard Lake Restoration.** The scope of this project has been expanded to include rotenone treatment of rough fish in upstream Mud Lake as well as Howard—deemed necessary by the DNR in order to control rapid re-infestation of Howard Lake. The DNR will implement this project, with the District contributing a cash cost-share for labor and materials, and providing follow-up monitoring. Refer to page 7-8 of the Plan and the DNR's "Howard and Mud Lakes Management Plan" for further background information and a discussion of alternatives considered.
5. **Middle Rice Creek Peak Flow Reduction.** This project incorporates and expands upon the Marsden Lake Restoration described on page 7-9 of the Plan. Its purpose is to mitigate the peak flood flows experienced in Lower Rice Creek, resulting from coinciding runoff from several highly developed subwatersheds encompassing the cities of Mounds View, New Brighton, Shoreview and Roseville. The objective is to increase detention storage at selected regional ponding areas through outlet restrictions and/or excavation. In addition to Marsden Lake, other sites being evaluated include Jones Lake and Hansen Park in New Brighton, the Judicial Ditch 1 regional pond tributary area, and floodplain areas in Blaine and Mounds View. Refer to District's Hydrologic Model Report dated 2/25/98 for further background information. A detailed feasibility study documenting need, scope, alternatives considered, etc., will be prepared prior to ordering the project.
6. **Clearwater Creek Trunk Improvements.** This project continues as described on page 7-10 of the Plan. However, the time frame has been extended to coincide with plans for construction of municipal infrastructure and private development in the area, and cost estimates are updated.
7. **Middle Rice Creek Meander Restoration.** The purpose of this project is to restore Rice Creek to its historical and more natural sinuosity in the reach between County Road I and Lexington Avenue on Ramsey County Open Space property in Shoreview. At some time in the past, this reach had been straightened, resulting in poor quality stream habitat and depauperate invertebrate and fish populations as documented by District biomonitoring and habitat assessment studies. Anticipated project benefits include

reduced flow velocities and bank erosion along with improvements to habitat and overall stream ecology. Refer to pages 5-6, Table 5-1 (Problem Identification) of the Plan for further background. A detailed feasibility study documenting need, scope, alternatives considered, etc., will be prepared prior to ordering the project.

8. **Hwy 61/Judicial Ditch 1 Wetland Treatment Basin/Impoundment.** This project is similar in purpose and nature to the Schuneman Marsh project described on page 7-6 of the Plan. Judicial Ditch 1 flows through this channelized wetland immediately upstream of its discharge point to Bald Eagle Lake. The objective is to enhance the treatment capability of this basin through excavation for flow diffusion and additional storage, to enhance phosphorus removal prior to discharge to Bald Eagle Lake. Refer to pages 5-5, 29, & 30 of the Plan for further background on the Bald Eagle Lake Diagnostic Study. The complete text of the Study is available at the District office and includes a discussion of project need and alternatives considered.

9. **Bald Eagle Lake Sediment Phosphorus Inactivation.** A recent update of the Bald Eagle Lake Diagnostic Study based on more current monitoring data, concluded that internal recycling accounts for 47% of the phosphorus load. Other projects and programs are in place or planned to control the external load; however, it appears that to achieve the water quality goal for the Lake, control of the internal load will also be required. The deeper portions of the Lake which produce anoxic conditions during summer stratification, would be treated with alum to inactivate the phosphorus in the bottom sediments. Refer to pages 5-5, 29, & 30 of the Plan for further background. Copies of the original and updated Diagnostic Studies are available at the District office and include a discussion of project need and alternatives considered.

10. **Anoka County Ditch 25 Wetland Treatment Basin/Impoundment at Birch Street.** This ditch drains 2,100 Acres in Lino Lakes and discharges to Reshanau Lake—a highly eutrophic lake plagued by severe algae blooms. Monitoring and diagnostic studies by the District have established that a majority of the phosphorus load to the Lake is delivered by Ditch 25. The purpose of this project is to improve the phosphorus removal efficiency of the large wetland basin just south of Birch Street through a combination of flow diffusion, impoundment and/or excavation. This large basin has been partially drained by the ditch and is now dominated by reed canary grass. Monitoring reports are available at the District office, and a detailed feasibility study documenting need, scope, alternatives, etc., will be prepared prior to ordering the project.

11. **Long Lake Inlet—Sediment Delta Dredging.** The Rice Creek channel at its inlet to Long Lake in New Brighton has an accumulation of sediment extending as a delta into the Lake and interfering with the recreational suitability of the Lake. This area was dredged by the District in the early 1980s as part of the Long Lake/Chain of Lakes Project at which time an on-line sediment basin was also constructed upstream of the Burlington Northern Railroad crossing. The sediment basin was designed to catch coarse materials and has been dredged to remove accumulated materials three times since its construction. This project will remove the finer materials which have by-passed the sediment basin and moved further downstream to the Lake, and is considered to be maintenance of an in-place system.

12. **Pike Lake Inlet—Sediment Delta Dredging and Improve Inlet Control Structure.** Ramsey County Ditch 2 drains a highly impervious subwatershed in the Cities of New Brighton and Roseville and discharges to Pike Lake. Sediment deltas have accumulated at the Ditch 2 inlet and the MN/DOT stormsewer outfall which discharges Hwy 694 runoff to the Lake. The project is anticipated to be a cooperative project with MN/DOT to dredge the accumulated sediment and install control structures to remove floatable materials, oils and heavy grit prior to discharge to the Lake. Other projects have been completed and/or are planned to retrofit additional detention storage upstream of Pike Lake within this subwatershed to mitigate the erosive flows in Ditch 2 which is contributing much of the sediment. A detailed feasibility study documenting need, scope, alternatives, etc., will be prepared prior to ordering the project.

13. **New Brighton Family Service Center Wetland Improvement.** This wetland, located in the southwest quadrant of I-694 and I-35W receives direct runoff from the highways as well as portions of the Cities of New Brighton and Arden Hills, and discharges to Long Lake. In the early 1980s, the District deepened, enlarged and placed control structures in this wetland to enhance treatment of runoff prior to discharge to Long Lake. The purpose of this project is to excavate open water areas within the wetland which is now dominated by purple loosestrife and hybrid cattails. This will enhance the vegetative diversity of the wetland (which will complement the City's nature trail) and improve its treatment capability. This project is considered to be maintenance of an in-place system.

14. **Demonstration Projects for Stormwater Infiltration Practices.** The District's current Plan (pp. 5-15 through 18) references a demonstration project for infiltration BMPs, and a small-scale project is currently underway at the City of Lino Lakes' new Village Center. Public acceptance of infiltration practices has met some resistance due to lack of a well-documented track record of success in this part of the country. To help overcome this resistance, an additional demonstration project will be identified and funded each year over the planning period.

15. **Fund for Acquisition of Conservation Easements for Flood-prone Lands and Water Quality Protection.** The Board of Managers recognizes that one of the most effective ways of achieving the District's goals is by protecting critical lands through conservation easements, purchase of development rights and similar land protection tools. The purpose of this program is to establish a fund that will be used to purchase easements or similar protective covenants from willing sellers and to leverage additional federal, state, and local dollars that may be available for similar purposes. Priority lands to be targeted include those which provide a water quality buffer riparian to the District's trunk drainage system and other major water courses, those which are subject to periodic flooding and/or provide storage or infiltration of water to mitigate downstream flooding and/or water quality problems. The Board of Managers intends to levy \$250,000 per year over the planning period and accumulate these funds for the above-described purposes as opportunities become available.

16. **Cost-share Program for Feedlot Management and Livestock Exclusion Projects.** The Centerville/Peltier lakes Diagnostic and Feasibility Study identified agricultural erosion and nutrient inputs as one of the contributing sources of poor water quality in these lakes. This cost-share program is a continuation of the program described in Section 5-9 of the Plan with the funding level increased to \$50,000 per year over the planning period. It will be used to cost-share with landowners who are willing to construct agricultural BMPs to address water quality problems, and to leverage additional state and federal funds that may be available for similar purposes.

17. **Cost-share Program for Municipal Stormwater Water Quality Retrofit Projects.** This is a continuation of the currently established program described on page 5-34 of the Plan, with the funding level increased to \$100,000/year to provide additional incentives to municipalities to take advantage of this program.

18. **Cost-share Program for Stream Bed & Bank Stabilization.** This is a continuation of the currently established program described in Section 5-15 of the Plan. Under this program, the District cost-shares up to 50% with riparian landowners to address channel erosion on the creeks and other drainageways. Annual funding has been increased from \$30,000 to \$50,000.

19. **Cost-share Program for Lake Vegetation Management.** The purpose of this program is to provide incentives and support to lake associations and/or public land agencies to mitigate the adverse impacts of nuisance exotics such as curlyleaf pondweed and Eurasian water milfoil, and promote the restoration of native shoreline vegetation. The funds will be used to assist with the development and implementation of comprehensive aquatic plant management plans and for establishment of demonstration projects.

20. **Water Quality & Quantity Monitoring Program.** This is a continuation of the District's on-going lake and stream monitoring programs as described in Sections 5-4 and 5-13 of the Plan. Annual costs have been updated to reflect five additional permanent gauging stations (located on Clearwater Creek, Hardwood Creek, Ramsey County Ditch #2, Upper Rice Creek and Middle Rice Creek), continuous monitoring at Rice Creek's outlet to the Mississippi (in accordance with Met Council's Watershed Outlet Monitoring Program), and the addition of Pike, Oneka, Reshanau, Marshan and Spring Lakes to the Citizen Assisted Monitoring Program.

21. **Water Quality and Quantity Modeling/Studies.** Included in this item are the on-going efforts to refine and calibrate the District's hydrologic/hydraulic models as additional gauged data becomes available, HEC2 flood profile studies for Hardwood and Upper Rice Creeks, P-8 water quality modeling for Tier 1 and 2 lakes, lower Rice Creek Sediment Bedload Study and miscellaneous special studies that may be required as additional monitoring data is collected.

22. **Wetland Inventories and Management Plans.** The purpose of this project is to complete a wetland inventory, including a functions and values assessment, for selected subwatersheds, and develop a more tailored wetlands management plan for these areas. Priority subwatersheds for this effort are those areas within Upper Rice, Hardwood and Clearwater Creeks expected to see more intense development pressure over the next five years. The District intends to work closely with the municipal governments in this effort and will seek grants to supplement District funds.

23. **Administration of Regulatory (Permit) Program.** The District's Rules require that permits be obtained for floodplain, wetland or shoreland alteration, bridge or culvert crossings, and construction or repair of drainage systems. In addition, land development or re-development projects are required to obtain permits and comply with stormwater management and erosion control criteria (Reference RCWD Rules adopted 8/12/98). This on-going annual cost includes engineering review, site inspections, administrative and clerical staff time associated with this program.

24. **Public Information and Education Program.** This is a continuation of the program identified in Section 5-16 of the Plan. Costs have been updated to reflect the addition of a half-time staff person devoted to non-point source education.

25. **Stream and Ditch Inspection & Maintenance.** This is a continuation of the on-going inspection, maintenance and bank stabilization programs described in Sections 5-2, 5-14 and 5-15 of the Plan.

26. **Maintenance Fund for Long Lake and Locke Lake Sedimentation Basin Clean-outs.** The Long Lake and Locke Lake sedimentation basins are both on-line basins located along Rice Creek just upstream of the respective lakes. Both were constructed by the District and require periodic maintenance to remove accumulated sediment. The Long Lake basin requires maintenance approximately every five years at an estimated cost of \$200,000 while the Locke Lake Basin will require maintenance approximately every fifteen years at an estimated cost of \$400,000. The District will make an annual levy of \$75,000 to accumulate funds for the necessary maintenance.