

City of Minnetonka

Water Resources Management Plan



January 2010

Prepared by Barr Engineering Co.





Water Resources Management Plan

Approved by

Minnetonka City Council
August 3, 2009


Minnehaha Creek Watershed District
January 29, 2009

Nine Mile Creek Watershed District
September 18, 2008

Bassett Creek Watershed Management Commission
September 18, 2008

Riley-Purgatory-Bluff Creek Watershed District
July 29, 2008 (per Minnesota Statutes 103B.235)

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Minnesota.

Karen L. Chandler 
Reg. No 19252 Date February 4, 2010



Prepared by

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List of Acronyms

Glossary

Executive Summary

Chapter 1.0 Introduction

- 1.1 Location and History
- 1.2 Regulatory History
- 1.3 Need for the Plan
- 1.4 Purpose & Scope
- 1.5 General Approach to Planning
- 1.6 Water Resources-Related Agreements
- 1.7 Plan Organization

Chapter 2.0 Goals and Policies

- 2.1 Water Quality
- 2.2 Creeks
- 2.3 Wetlands
- 2.4 Education and Public Involvement
- 2.5 Water Quantity and Flooding
- 2.6 Groundwater
- 2.7 Erosion and Sedimentation
- 2.8 Funding

Chapter 3.0 Physical Environment Inventory

- 3.1 Climate and Precipitation
- 3.2 Topography
- 3.3 Watersheds and Drainage Patterns
- 3.4 Land Use
- 3.5 Soils
- 3.6 Geology/Groundwater Resource Data
- 3.7 Public Waters
- 3.8 Forest Resources and Native Vegetation
- 3.9 Wetland Resources and Protection
- 3.10 Water Quality
- 3.11 Water Quantity/Flooding
- 3.12 Creeks
- 3.13 Surface Water System
- 3.14 Recreational Areas
- 3.15 Fisheries and Aquatic Habitat
- 3.16 Unique Features and Scenic Areas
- 3.17 Pollutant Sources

Chapter 4.0 Watershed Plans

- 4.1 Bassett Creek
- 4.2 Minnehaha Creek
- 4.3 Nine Mile Creek Watershed
- 4.4 Purgatory Creek

Chapter 5.0 Assessment of Issues

- 5.1 General Issues Discussion
- 5.2 Minnesota Pollution Control Agency (MPCA) Issues
- 5.3 Metropolitan Council Issues
- 5.4 Bassett Creek Watershed Management Commission (BCWMC) Issues
- 5.5 Minnehaha Creek Watershed District (MCWD) Issues
- 5.6 Nine Mile Creek Watershed District (NMCWD) Issues
- 5.7 Riley Purgatory Bluff Creek Watershed District (RPBCWD) Issues
- 5.8 City of Minnetonka Issues
- 5.9 Adequacy of Existing Programs

Chapter 6.0 Implementation Program

- 6.1 Water Quality/NPDES Phase II MS4 Permit
- 6.2 Operation and Maintenance of Stormwater Systems
- 6.3 Specific MCWD Tasks
- 6.4 Education and Public Involvement
- 6.5 Cost Estimation
- 6.6 Funding of Implementation Program
- 6.7 Design Standards
- 6.8 Ordinance Implementation and Official Controls
- 6.9 Implementation Priorities
- 6.10 Plan Update and Amendment Procedures
- 6.11 Regulatory Framework and Agency Responsibilities
- 6.12 Opportunities

Chapter 7.0 References

List of Tables

Table 3-1	Precipitation Summary—Minneapolis/St. Paul Airport Station
Table 3-2	Selected Precipitation and Runoff Events
Table 3-3	MCWD Identified Landlocked Areas in the City of Minnetonka
Table 3-4	DNR Public Waters within the City of Minnetonka
Table 3-5	Wetland Types (Circular 39) and Characteristics
Table 3-6a	Bassett Creek Watershed Wetland Inventory
Table 3-6b	Minnehaha Creek Watershed Wetland Inventory
Table 3-6c	Nine Mile Creek Watershed Wetland Inventory
Table 3-6d	Purgatory Creek Watershed Wetland Inventory
Table 3-7	Wetland Management Standards According to Relative Susceptibility and Management Potential
Table 3-8	Susceptibility of Wetlands to Degradation by Stormwater Impacts
Table 3-9	Water Quality Monitoring
Table 3-10	Minnetonka Monitored Water Bodies - Physical Characteristics and Water Quality Management Classifications and Goals
Table 3-11	Summary of WMOs Water Quality Classification Systems
Table 3-12	MPCA Ecoregion Eutrophication Criteria for Shallow and Deep Lakes
Table 3-13	Impaired Waters in the City of Minnetonka
Table 3-14a	Bassett Creek Watershed Data, Hydrologic Modeling, and Water Quality Modeling Summary
Table 3-14b	Minnehaha Creek Watershed Data, Hydrologic Modeling, and Water Quality Modeling Summary
Table 3-14c	Nine Mile Creek Watershed Data, Hydrologic Modeling, and Water Quality Modeling Summary
Table 3-14d	Purgatory Creek Watershed Data, Hydrologic Modeling, and Water Quality Modeling Summary
Table 3-15	Summary of Available Hydrologic and Hydraulic and Pollutant Loading Models Completed by WMOs
Table 3-16	City of Minnetonka Load Reductions as Required by MCWD
Table 3-17	Water Quantity Monitoring
Table 3-18	Summary of Rosgen Criteria for Physical Classification of Streams
Table 3-19	Minnehaha Creek Channel Stability Ratings
Table 3-20	NMCWD & RPBCWD Ecological Use Classification Criteria
Table 3-21	Fishery & Aquatic Invasive Species Information
Table 4-1	Summary of Drainage Subdistrict Characteristics
Table 5-1	MPCA Impaired Waters Listing Criteria
Table 5-2	Summary of the Impaired Waters List for Minnetonka
Table 5-3	MCWD Required Annual Phosphorus Load Reductions, City of Minnetonka
Table 5-4	NMCWD Goals and Issues for City of Minnetonka Lakes
Table 6-1	WRMP Completion Timeline Compared to WMO Timelines
Table 6-2	Storm Drainage System Unit Costs

Table 6-3	Potential Implementation Activities (including Capital Improvements) and Planning Level Cost Estimates
Table 6-4	Implementation Activity Timelines and Corresponding Yearly Costs in Dollars

List of Figures

Figure 3-1	Average Monthly High & Low Temperatures and Precipitation for Minneapolis-St. Paul International Airport (1970-2000)
Figure 3-2	Precipitation-Duration-Frequency Curves For the Minneapolis - St. Paul Area
Figure 3-3	Watersheds
Figure 3-4	Drainage Subdistricts, Subwatersheds & Drainage Patterns
Figure 3-5	Redevelopment Areas
Figure 3-6	Hydrologic Soil Groups
Figure 3-7	Groundwater Sensitivity to Pollution
Figure 3-8	Wellhead Protection Areas
Figure 3-9	Public Waters Inventory
Figure 3-10	Public Ditches
Figure 3-11	MCWD Key Conservation Areas
Figure 3-12	Wetland Management Classification
Figure 3-13	Summary of Wetland Management Classification by a) Number and b) Acres of Wetland
Figure 3-14	National Wetlands Inventory (NWI)
Figure 3-15	Water Quality & Quantity Monitoring Locations
Figure 3-16	2003 - 2005 Water Quality Total Phosphorus
Figure 3-17	Impaired Waters
Figure 3-18	Water Quality Modeling (PondNet) Results Summary
Figure 3-19	100-Year Floodplain
Figure 3-20	Physical Stream Classification
Figure 3-21	Ecological Use Attainability (EUA) Classification
Figure 3-22	Recreation Areas & Public Access
Figure 3-23	Hazardous Waste Sites

Appendices

Appendix A:	Design Guidelines and Standards
Appendix B:	City of Minnetonka SWPPP
Appendix C:	City of Minnetonka Nondegradation Report
Appendix D:	Source Water Assessment and Wellhead Protection Plan for Minnetonka
Appendix E:	City of Minnetonka Wetland Protection Ordinance
Appendix F:	City of Minnetonka Shoreland District Ordinance
Appendix G:	City of Minnetonka Floodplain District Ordinance
Appendix H:	City of Minnetonka Emergency Management Basic Plan - Public Version
Appendix I:	Hydrologic/Hydraulic Models
Appendix J:	City of Minnetonka Stormwater Funding Policies
Appendix K:	WMO Rules
Appendix L:	MCWD Loading Reduction Report
Appendix M:	Water Resource Related Agreements

List of Acronyms

BCWMC	Bassett Creek Watershed Management Commission
BI	Biotic Index
BMPs	Best Management Practices
BWSR	Minnesota Board of Water & Soil Resources
CAMP	Citizen Assisted Monitoring Program
Chl <i>a</i>	Chlorophyll <i>a</i>
CLMP	Citizen Lake Monitoring Program
CD	County Ditch
CFS	Cubic Feet per Second
CIP	Capital Improvement Program
CLP	Clean Lakes Program
COE	United States Army Corps of Engineers
CWA	Clean Water Act
DNR	Minnesota Department of Natural Resources
DO	Dissolved Oxygen
DS	Downstream
DWSMA	Drinking Water Supply Management Areas
EAW	Environmental Assessment Worksheet
EIS	Environmental Impact Statement
EPA	United States Environmental Protection Agency
EQB	Environmental Quality Board
EQIP	Environmental Quality Incentives Program
EUA	Ecological Use Attainment
FAW	Functional Assessment of Wetlands (MCWD)
FBI	Family Biotic Index
FCA	Fish Consumption Advisory
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FIS	Flood Insurance Studies
HBI	Hilsenhoff Biotic Index
HCRW	Hennepin County River Watch
HCWI	Hennepin County Wetland Inventory

HFP	High Flood Potential
IBI	Index of Biotic Integrity
IC	Impervious Cover
ICI	Invertebrate Community Index
ISTEA	Intermodal Surface Transportation Efficiency Act
ISTS	Individual Sewage Treatment Systems
JD	Judicial Ditch
LA	Load Allocation
LCA	Local Cooperation Agreement
LCCMR	Legislative-Citizen Commission on Minnesota Resources
LGU	Local Government Unit
LOMA	Letter of Map Amendment
MCES	Metropolitan Council Environmental Services
MCWD	Minnehaha Creek Watershed District
MDH	Minnesota Department of Health
MEP	Maximum Extent Practicable
MnRAM	Minnesota Routine Assessment Method
Mn/DOT	Minnesota Department of Transportation
MPCA	Minnesota Pollution Control Agency
MS4	Municipal Separate Storm Sewer System
MSP	Minneapolis/St. Paul
MUSA	Metropolitan Urban Service Area
NAWCA	North American Wetlands Conservation Act
NCHF	North Central Hardwood Forest
NFIP	National Flood Insurance Program
NMCWD	Nine Mile Creek Watershed District
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
NURP	Nationwide Urban Runoff Program
OHWL	Ordinary High Water Level
PWI	Public Waters Inventory
RPBCWD	Riley-Purgatory-Bluff Creek Watershed District
SC	Specific Conductivity

SD	Secchi Disc Transparency
SDS	State Disposal System
SWCS	Soil and Water Conservation Society
SWPPP	Storm Water Pollution Prevent Plan/Program
T	Temperature
Tb	Turbidity
TEP	Technical Evaluation Panel
TIF	Tax Increment Financing
TMDL	Total Maximum Daily Load
TP	Total Phosphorus
TRPD	Three Rivers Park District
TSI	Trophic State Index
TSS	Total Suspended Solids
UAA	Use Attainability Analysis
US	Upstream
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
VIC	Voluntary Investigation and Clean-up
VOC	Volatile Organic Compound
VSMP	Volunteer Stream Monitoring Program
WCA	Wetland Conservation Act
WDNR	Wisconsin Department of Natural Resources
WHEP	Wetland Health Evaluation Project
WHPA	Wellhead Protection Area
WLA	Waste Load Allocation
WMO	Watershed Management Organization
WOMP	Watershed Outlet Monitoring Program
WRMP	Water Resources Management Plan