

**Table 4M:
Meeker County Shoreland Standards**

Sewered Lakes					
Lake Class	Lakeshore			Non-Lakeshore	
	Lot Width (ft.)	Lot Area (ft²)	Structure Setback (ft.)	Lot Width (ft.)	Lot Area (ft²)
Natural Sensitive	300	130,000	200	300	130,000
Natural Environment	125	40,000	150	125	20,000
Recreational Development	75	20,000	75	75	15,000
General Development	75	15,000	50	75	10,000
Unsewered Lakes					
Lake Class	Lakeshore			Non-Lakeshore	
	Lot Width (ft.)	Lot Area (ft²)	Structure Setback (ft.)	Lot Width (ft.)	Lot Area (ft²)
Natural Sensitive	300	130,000	200	300	130,000
Natural Environment	200	80,000	150	200	80,000
Recreational Development	150	50,000	100	150	50,000
General Development	125	25,000	75	150	50,000
Rivers					
River Class	River Shoreland				
	Lot Width (ft.)	Structure Setback (ft.)	Sewage Setback (ft.)		
Remote	300	200	150		
Forested/ Transition	200	150	100		
Agricultural/ Urban & Tributary	150	50/100*	75		

* Sewered/ Unsewered

Note: Setbacks are measured from the Ordinary High Water Level

Table 4N lists the 109 lakes in Meeker County that have been given a DNR shoreland classification. Seventy-nine lakes are classified as Natural Sensitive, 14 are classified as Natural Environment, 13 are classified as Recreational Development and 3 are classified as General Development. Lake Ripley is classified as Split.

**Table 4N:
Lake Shoreland Classifications**

Lake Name	Shoreland Classification	Lake Name	Shoreland Classification
Andrew Nelson (47-0101)	Natural Sensitive	Maynard (24)	Natural Sensitive
Arvilla (47-0023)	Recreational Development	Miller (194)	Natural Sensitive
Belle (47-0049)	Natural Sensitive	Minnesota (140)	Natural Sensitive
Benton (47-0054)	Natural Environment	Moe (179)	Natural Sensitive
Big Swan (47-0038)	Recreational Development	Mud (59)	Natural Sensitive
Birch (55)	Natural Sensitive	Mud (40)	Natural Sensitive
Butternut (47-0005)	Natural Environment	Mud (59)	Natural Sensitive
Clear (47-0095)	Recreational Development	Mud (71)	Natural Sensitive
Coombs (113)	Natural Sensitive	Mud (85)	Natural Sensitive
Dahls (200)	Natural Sensitive	Mud (121)	Natural Sensitive
Dunns (47-0082)	Recreational Development	Mud (152)	Natural Sensitive
E Andrew Nelson (73)	Natural Sensitive	Mud (196)	Natural Sensitive
Emma (201)	Natural Sensitive	N. Buckley (Rush) (69)	Natural Sensitive
Erie (47-0064)	Recreational Development	Peterson (198)	Natural Sensitive
Fallon (45)	Natural Sensitive	Pigeon (155)	Natural Sensitive
Francis (47-0002)	General Development	Pipe (110)	Natural Sensitive
Greenleaf (47-0062)	Natural Sensitive	Popple (173)	Natural Sensitive
Half Moon (144)	Natural Sensitive	Porter (57)	Natural Sensitive
Harden (112)	Natural Sensitive	Powers (48)	Natural Sensitive
Harold (137)	Natural Sensitive	Rice (87)	Natural Sensitive
Helga (99)	Natural Sensitive	Richardson (47-0088)	Recreational Development
Hoff (47-0106)	Natural Environment	Ripley (47-0134)	Split
Hoosier (116)	Natural Sensitive	Sather (178)	Natural Sensitive
Horseshoe (151)	Natural Sensitive	Sioux (60)	Natural Sensitive
Hurley (54)	Natural Sensitive	Spring (47-0032)	General Development
Jennie (47-0015)	Recreational Development	Star (47-0129)	Natural Environment
Jewitt (44)	Natural Sensitive	Stella (47-0068)	Recreational Development
King (153)	Natural Sensitive	Stevens (77)	Natural Sensitive
Little Mud (47-0096)	Natural Environment	Stone (47-0131)	Natural Environment
Little Spring (36)	Natural Sensitive	Thompson (47-0159)	Natural Environment
Long (17)	Natural Sensitive	Thoen (154)	Natural Sensitive
Long (47-0026)	Recreational Development	Towers (47-0142)	Natural Environment
Long (47-0177)	Natural Environment	Turtle (74)	Natural Sensitive
Lund (192)	Natural Sensitive	Unnamed (47-0043)	Natural Environment
Lydia (206)	Natural Sensitive	Unnamed (47-0132)	Natural Environment
Manuella (47-0050)	Recreational Development	Unnamed (47-0148)	Natural Environment
Mary (143)	Natural Sensitive	Unnamed (47-0191)	Recreational Development

**Table 4N:
Lake Shoreland Classifications (continued...)**

Lake Name	Shoreland Classification	Lake Name	Shoreland Classification
Unnamed (6)	Natural Sensitive	Unnamed (126)	Natural Sensitive
Unnamed (7)	Natural Sensitive	Unnamed (128)	Natural Sensitive
Unnamed (9)	Natural Sensitive	Unnamed (139)	Natural Sensitive
Unnamed (18)	Natural Sensitive	Unnamed (148)	Natural Sensitive
Unnamed (20)	Natural Sensitive	Unnamed (149)	Natural Sensitive
Unnamed (33)	Natural Sensitive	Unnamed (150)	Natural Sensitive
Unnamed (34)	Natural Sensitive	Unnamed (163)	Natural Sensitive
Unnamed (39)	Natural Sensitive	Unnamed (189)	Natural Sensitive
Unnamed (43)	Natural Sensitive	Unnamed (316)	Natural Sensitive
Unnamed (47)	Natural Sensitive	Washington (46)	General Development
Unnamed (93)	Natural Sensitive	West (202)	Natural Sensitive
Unnamed (97)	Natural Sensitive	West Hanson (136)	Natural Sensitive
Unnamed (103)	Natural Sensitive	Whitney (205)	Natural Sensitive
Unnamed (115)	Natural Sensitive	Wilcox (193)	Natural Environment
Unnamed (117)	Natural Sensitive	Willie (61)	Recreational Development
Unnamed (122)	Natural Sensitive	Wolf (16)	Recreational Development
Unnamed (124)	Natural Sensitive	Youngstrom (138)	Natural Sensitive
Unnamed (125)	Natural Sensitive		

References:

Meeker County Planning and Zoning Office
Minnesota Department of Natural Resources, Division of Waters

Implications and Assessment

Meeker County, as well as the cities of Eden Valley and Litchfield, have adopted Shoreland Ordinances that are up to date and meet the State’s minimum shoreland standards. While each of these local units of government are believed to be adequately enforcing the provisions of their ordinance, simply adhering to the State’s minimum shoreland standards is not enough to promote consistent and sustainable development. The County, as well as each of the communities listed above, should work with the Minnesota Department of Natural Resources (DNR) to revise their shoreland ordinance to provide greater protection of water resources from development.

Water-Based Recreational Lands *(Data Item 47)*

There are eight County/Regional parks in Meeker County, all of which are tied to water resources. A brief description of each park, as derived from the *Meeker County Comprehensive Plan*, is provided below. Map 4C displays the location of each of these parks.

1. **Clear Lake Park** is located three miles south of the City of Watkins on County Road 2. It includes a picnic area, swimming beach, hiking trails, picnic shelter, bathrooms and water. The park is 34.4 acres in size.
2. **Spring Lake Park** is located one mile north of the City of Dassel, just east of County Road 4. The park includes picnic shelters, playground equipment, water, a basketball court, a softball field and bathrooms. There are boat landings on Spring Lake and Long Lake, and there is a fishing dock on Long Lake. The park is 13 acres in size.
3. **Shaw Memorial Park** is located in Forest City along the Crow River, near the Old Mill dam site. The park has picnic shelters, water, bathrooms, playground equipment, a softball field, a basketball court, a paddle tennis court and an ice skating rink during the winter.
4. **Thompson Park** is located one mile west of the City of Cosmos on Lake Thompson. The park includes picnic shelters, playground equipment, water, bathrooms, a fishing dock, a ball field and a sand volleyball court. The park is 22 acres in size.
5. **Koronis Regional Park** is located on the southwest shore of Lake Koronis. The park has bathrooms with showers and overnight camping with electricity. Other features include: playground equipment, a swimming beach, a boat landing, several picnic shelters, a lookout tower, two ball fields, a volleyball court, a shuffleboard court, a horseshoe court, a basketball court, marked hiking trails and two shelters with kitchen facilities. There is a caretaker on site to make shelter reservations and camping arrangements. The park is 62 acres in size.
6. **West Ripley Park** is located on the west shore of Lake Ripley, on the south side of the City of Litchfield. The park has a large picnic shelter, a boat landing, playground equipment, two sand volleyball courts, horseshoe courts, a fishing pier, a water pump, bathrooms, a bike bath and a boat landing.
7. **Lake Manuella Park** is located five miles south of Highway 12 on County Road 9, on the east side of Lake Manuella. The park boasts an excellent swimming beach, as well as picnic facilities, bathrooms and a changing house. The park is 2 acres in size.
8. **Finish Memorial Park** is located just west of the City of Kingston on County Road 27, along the Crow River. The park has a tennis court, playground equipment, water, bathrooms, a canoe landing and a shelter. The park is 17 acres in size.

Reference:

Meeker County Planning and Zoning Office

Public Water Accesses
(Data Item 48)

The Minnesota Department of Natural Resources (DNR), through its Public Water Access Program, manages over 1,500 trailer and carry in boat accesses on Minnesota's lakes and rivers. These accesses usually remain open 24 hours a day, unless posted, and are patrolled by conservation officers. There is no fee for their use. However, accesses located within a State Park require a daily or annual State Park sticker. The Public Water Access Program also provides other water access amenities, such as fishing piers and shore fishing sites, for those who may not have a boat. Fishing piers and shoreline enhancements are barrier free and are generally operated and maintained by local units of government.

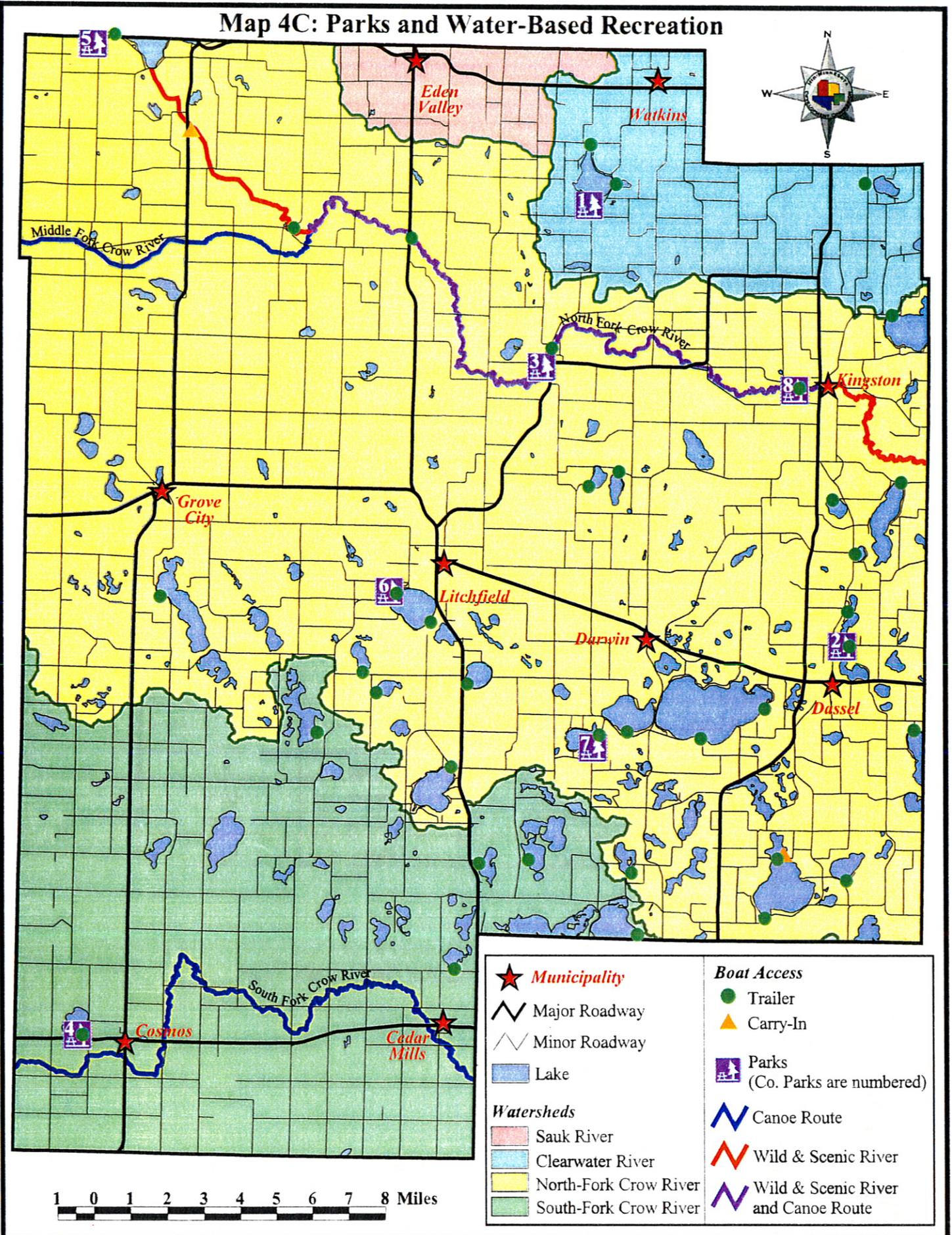
The goal of the Public Water Access Program is to provide free access to Minnesota's lakes and rivers. The program strives to meet the increasing demand on the State's water resources for all boating activities. The Public Water Access Program works year round on acquisition, development and maintenance of water access sites. Funds to provide public accesses are derived through boat license fees and a portion of gas tax revenues attributed to motorboats. In addition, funding is periodically provided through the Legislative Commission on Minnesota Resources (LCMR) and the State Bonding Program.

Table 40 provides information on the 38 public water accesses that are located in Meeker County. Map 4C displays the location of each of these public water accesses.

Table 40:
Public Water Accesses

Waterbody/Course Name	Ramp Type	Administrator
Arville Lake	Concrete	DNR
Belle Lake	Concrete	DNR
Big Swan Lake	Concrete	DNR
Clear Lake	Concrete	DNR
Clearwater River/ Betsy Lake	Concrete	DNR
Collinwood Lake	Concrete	DNR
Dunns Lake	Concrete	DNR
Erie Lake	Concrete	DNR
Francis Lake	Concrete	Township
Greenleaf Lake	Concrete	DNR
Hoff Lake	Concrete	DNR
Jennie Lake (north)	Concrete	DNR
Jennie Lake (south)	Concrete	DNR
Koronis Lake	Concrete	County

Map 4C: Parks and Water-Based Recreation



- | | |
|-------------------------|---|
| ★ Municipality | ● Trailer |
| ≡ Major Roadway | ▲ Carry-In |
| ∩ Minor Roadway | 🏠 Parks
(Co. Parks are numbered) |
| 🟦 Lake | 🛶 Canoe Route |
| Watersheds | 🛤️ Wild & Scenic River |
| 🟡 Sauk River | 🛤️ Wild & Scenic River
and Canoe Route |
| 🟢 Clearwater River | |
| 🟡 North-Fork Crow River | |
| 🟢 South-Fork Crow River | |

1 0 1 2 3 4 5 6 7 8 Miles

**Table 40:
Public Water Accesses (continued...)**

Waterbody/Course Name	Ramp Type	Administrator
Little Mud Lake	Concrete	DNR
Little Swan Lake	Gravel	DNR
Long Lake	Gravel	DNR
Long Lake	Gravel	County
Manuella Lake	Concrete	DNR
Minnesota Lake	Gravel	DNR
Minnie Belle Lake	Concrete	DNR
North Fork Crow River (Kingston)	Gravel	County
North Fork Crow River (Manannah)	Gravel	DNR
North Fork Crow River (Highway 22)	Gravel	DNR
North Fork Crow River (Forest City)	Gravel	DNR
Richardson Lake	Concrete	DNR
Ripley lake North (East)	Concrete	City
Ripley Lake North (West)	Concrete	County
Round Lake	Concrete	DNR
Spencer Lake	Gravel	DNR
Spring Lake	Concrete	County
Star Lake	Concrete	DNR
Stella Lake	Concrete	DNR
Washington Lake	Gravel	DNR
Washington Lake	Concrete	DNR
Willie Lake	Concrete	DNR
Wolf Lake	Concrete	DNR
Youngstrom Lake	Gravel	DNR

Reference:

Minnesota Department of Natural Resources, Division of Trails and Waterways

State and Federal Wild and Scenic Rivers/ Canoe and Boating Routes (Data Item 49)

The Minnesota State Wild and Scenic Rivers Program was established in 1973 to protect rivers that have outstanding natural, scenic, geographic, historic, cultural and recreational value. Six rivers in Minnesota, including the North Fork of the Crow River, have segments that are designated as wild, scenic, or recreational under the State program. The particular portion of the North Fork of the Crow River that is protected under the program, displayed in Map 4C, stretches from the spillway at the southern end of Lake Koronis to the Meeker/Wright County line. This portion of the river is classified by the State as recreational, meaning that the river has undergone some impoundment or diversion in the past and may have adjacent lands that have been developed considerably, but is still capable of being managed to further the purpose of the Wild and Scenic Rivers Program.

Once a river is designated as a part of the Wild and Scenic Rivers Program, a management plan, which outlines the rules and goals for that waterway, is developed. The management plan is designed to work in conjunction with local zoning ordinances to protect the river from pollution, erosion, over-development and degradation. These are factors ultimately undermine the wild, scenic and recreational qualities that the Wild and Scenic Rivers Program was designed to protect. The current management plan, adopted in 1976, is expected to be revised within the next several years. A copy of the management plan for the North Fork of the Crow River can be found in Appendix D.

The Minnesota Department of Natural Resources (DNR) has designated 19 rivers as canoe and boating routes, most of which are located in the eastern half of the state. Among the rivers that have received such designation, is the North Fork of the Crow River. Map 4C displays the portion of the North Fork of the Crow River, running from the Lake Koronis Spillway to the City of Kingston, that is designated as a canoe and boating route.

Reference:

Minnesota Department of Natural Resources

Implications and Assessment

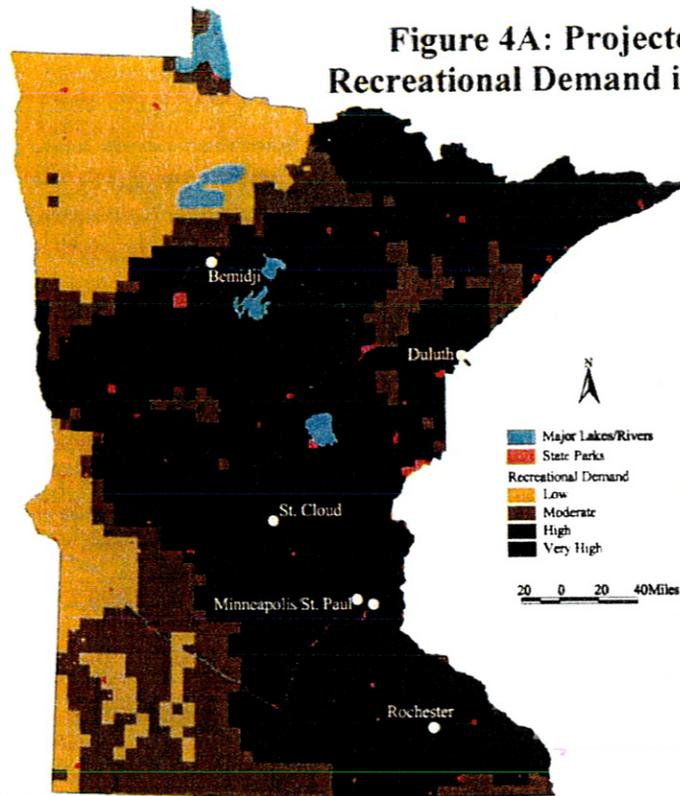
Meeker County is rich with water-based recreational lands. The County has 8 County/Regional parks and 38 public water accesses that are associated with surface water resources. Besides publicly owned lands, there is an abundance of privately owned resorts, motels and camps oriented around water-based recreation. Meeker County should support State and local efforts to maintain and/or expand public and private water-based recreation opportunities within the County.

According to Figure 4A, which is taken from the *2000 Minnesota State Park System Land Study*, Meeker County's projected recreational demand in 2025 is expected to be in the high range. To meet this projected demand, the County should work with the Minnesota Department of Natural Resources (DNR) to identify locations that have the potential for expanding water-based recreation.

The County should also pursue grants and other available funding to acquire and maintain water-based recreational lands.

Water and related land resources can be better managed to protect and/or enhance the County's water-based recreational lands through the implementation of best management practices (BMPs). Programs, such as continuous CRP and EQIP, provide landowners compensation for the implementation of conservation practices, such as the placement of buffers along watercourses and the upgrading of feedlots. These practices can improve water quality, thus protecting or enhancing the recreational opportunities of the water resource. The Meeker County SWCD, watershed management-like organizations and the lake associations play a vital role in promoting such practices.

Figure 4A: Projected Recreational Demand in 2025



The County and DNR are primarily in charge of ensuring that important recreational waters are protected for water quality concerns. The DNR protects important waters through its Public Waters Inventory and also assists the County in enforcing shoreland regulations. These programs are described in depth within this plan.

**Wildlife Management Areas
(Data Item 50)**

Wildlife Management Areas

The State Wildlife Management Area (WMA) Program was established as an attempt to preserve wildlife habitat areas, primarily wetlands that were being destroyed by development and agricultural land uses. WMAs were incorporated as components of the Minnesota outdoor recreation system, which was established by the Minnesota Outdoor Recreation Act of 1975. The Act establishes an outdoor recreation system that will: 1) preserve an accurate representation of Minnesota's natural and historical heritage for public understanding and enjoyment and 2) provide an adequate supply of scenic, accessible and useable lands and waters to accommodate the outdoor recreation needs of Minnesota's citizens.

WMAs are managed for wildlife production and are open to public hunting and wildlife watching. Hunters contribute \$1 million per year through a \$4 surcharge on their small game licenses to help buy and improve WMAs. Conservation clubs also donate money to support habitat projects on these wildlife lands.

According to Table 4P, there are 16 WMAs in Kandiyohi County, totaling 2,499 acres. Table 4Q also includes the 3 Aquatic Management Areas (AMAs) and 5 Northern Pike Spawning Areas (NPSAs) in Meeker County. Both the AMAs and the NPSAs are managed by the DNR, Division of Fisheries. Map 4D displays the location of the WMAs in the County.

**Table 4P:
Wildlife Management Areas, Aquatic Management Area
and Northern Pike Spawning Areas**

Name	Township	Range	Section	Acres
Acton WMA	119N	32W	27	40
Big Swan NPSA	120N	29W	36	4.2
Butternut WMA	119N	32W	19	150
Francis NPSA	120N	29W	1	15
Greenleaf WMA	117N	31W	4	432
Grovelund WMA	119N	32W	4	29
Hen Haven WMA	118N	32W	14	40
Knapp WMA	119N	29W	1	245
Lake Jennie AMA	118N	29W	33	9
Lake Minniebelle AMA	118N	31W	12	15
Litchfield WMA	119N	31W	4	117

**Table 4P:
Wildlife Management Areas, Aquatic Management Areas
and Northern Pike Spawning Areas (continued...)**

Name	Township	Range	Section	Acres
Madsen WMA	120N	31W	23	366
Mahlon James WMA	118N	31W	30	48
Manannah WMA	121N	31W	36	80
Manuella NPSA	118N	30W	4	10
Minniebelle NPSA	118N	31W	14	6
Minnie Man WMA	118N	30W	5	40
Popular WMA	119N	32W	32	152
Provencher WMA	118N	31W	26	88
Ripley NPSA	119N	31W	23	22
Rodewald WMA	118N	32W	18	224
Teal Scurry WMA	121N	31W	7	150
Thompson Lake AMA	117N	32W	17	32
Wieker WMA	118N	32W	5	298
Total WMA Acreage				2,499

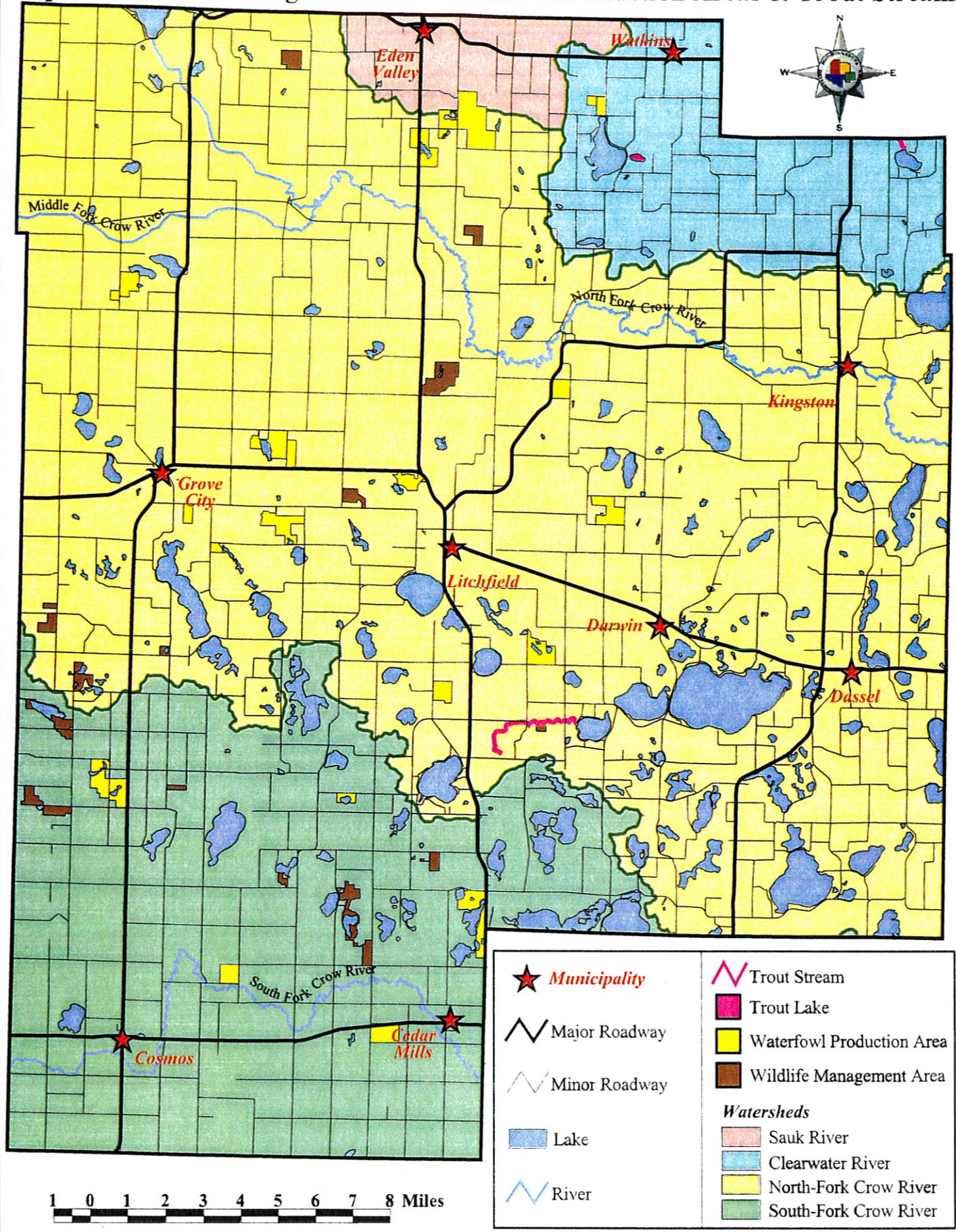
Waterfowl Production Areas

Waterfowl Production Areas (WPAs) are acquired and managed under the direction of the U.S. Fish and Wildlife Service (USFWS). WPAs aim to preserve wetlands and grasslands that are critical to waterfowl and other wildlife. These public lands were included in the National Wildlife Refuge System in 1966, through the National Wildlife Refuge Administration Act. Part of the money collected through purchasing a Duck Stamp in Minnesota goes toward the acquisition and maintenance of these areas.

WPAs provide numerous recreational opportunities to the public, including hunting, fishing, trapping, wildlife observation and photography. The use of motorized vehicles, including snowmobiles and all-terrain vehicles, is generally prohibited in WPAs. For additional rules and regulations regarding WPAs, contact the USFWS.

According to Table 4Q, there are 17 WPAs in Meeker County, totaling 6,287 acres. Map 4D displays the location of the WPAs in the County.

Map 4D: Wildlife Management and Waterfowl Production Areas & Trout Streams



**Table 4Q:
Waterfowl Production Areas**

WPA Name	Acres	WPA Name	Acres
Acton	80	Harvey	442
Casey Lake	303	Lake Harden	380
Cedar Mills	462	Litchfield	168
Clear Lake	120	Miller Lake	225
Cosmos	160	Peifer School	285
Forest City	160	Rosendale	481
Grass Lake	46	Stone Lake	147
Greenleaf	80	Tyrone Flats	2,433
Hanson Lake	315	Total WPA Acreage	6,287

References:

Minnesota Department of Natural Resources, Division of Wildlife
United States Fish and Wildlife Service

State Designated Trout Waters *(Data Item 51)*

The Minnesota Department of Natural Resources (DNR) has the authority to designate trout lakes and streams in the State. Restrictions have been placed on designated trout streams in order to protect and foster the propagation of the species. In such streams, fishing is limited, except during the open season, and the taking of minnows is prohibited at all times, unless permitted by the DNR.

Map 4D shows the location of the two DNR designated trout streams and lone trout lake in Meeker County. The first DNR designated trout stream is located in Ellsworth Township, Sections 4, 5, 6 and 7. The second Meeker County trout stream is located in North Kingston Township, Section 23. Little Mud Lake, located in Forest Prairie Township, Section 22, is the only designated trout lake in the County.

Reference:

Minnesota Department of Natural Resources, Division of Fisheries

State Ecological and Management Classifications (Data Item 52)

The Minnesota Department of Natural Resources (DNR), Division of Fisheries, has developed several lake classification systems. Lake classification systems have been used to categorize lakes according to their general fish community composition, natural ecological condition and the most suitable species for which a lake can be managed. Fisheries managers use these lake classifications to prescribe lake management goals and objectives. Ecological and Management Classification systems, were the earliest classification systems developed by Fisheries managers and are still used to some extent today. More recently, *An Ecological Classification of Minnesota Lakes with Associated Fish Communities* was developed by DNR Fisheries. The older Ecological Classification system categorizes suitable fish populations that are adapted to the physical, chemical and biological features of a lake. The older Management Classification system categorizes the most important species, or combination of species, on which management efforts should be directed. The *Ecological Classification of Minnesota Lakes with Associated Fish Communities* categorizes lakes according to limnological variables including variables associated with lake size, lake depth and chemical fertility and length of the growing season.

Table 4R lists the ecological and management classification for lakes in Meeker County. A brief description of each classification system is provided below.

Ecological Classification

The Ecological Classification denotes the basic lake type. This classification is described in terms of the natural and characteristic fish population which are best adapted to the physical, chemical and biological characteristics of a lake and which the lake could be expected to support if it were left alone and no special management applied to it.

The principal ecological types, in order of oligotrophic to eutrophic, are as follows:

1. **Trout** – Deep, rocky, infertile lakes with oxygen throughout.
2. **Soft-water Walleye** – Infertile, medium to large size lakes in northeastern Minnesota with natural walleye populations.
3. **Hard-water Walleye** – Moderately fertile, medium to large size lakes in which walleyes are well established naturally.
4. **Centrarchid-Walleye** – Medium to large sized, usually lakes consisting of many ecologically different bays or sections, some being natural walleye habitat, others more suitable to pan fish species.
5. **Centrarchid** – Medium to small sized, weedy, fertile, hard water lakes. Usually no large open areas. Many also contain moderate to substantial populations of carp, buffalofish and bullheads. Many may occasionally winterkill.

6. **Rough Fish-Game Fish** – Fertile hardwater lakes in southern and central Minnesota characterized by relatively large rough-fish populations. Many may occasionally winterkill.
7. **Bullhead** – Shallow lakes in which frequent winterkills promote the dominance of bullheads.
8. **Unclassified** – These are often small lakes whose native fish populations do not fit any of the above categories.

Management Classification

The management classification describes the most important species, or combination of species, on which management effort is to be directed.

The principal management classifications, in order of oligotrophic to eutrophic, are as follows:

1. **Trout** – Specific by species. Lake trout management usually restricts introductions to this species, unless a two-story condition prevails. Stream trout management usually involves elimination of competitive species and the introduction of fingerlings of the appropriate species.
2. **Walleye** – These lakes are managed to favor established walleye populations and northern pike. Usually little or no management of other sport fishes.
3. **Walleye-Centrarchid** – This type of management is designed to furnish a walleye fishery of moderate size, without displacing largemouth or smallmouth bass or pan fish populations.
4. **Centrarchid** – Management is geared towards largemouth or smallmouth bass since physical characteristics of the lakes managed will differ depending on the species. In addition to bass and pan fish, considerable attention is usually given to the northern pike.
5. **Warm-Water Game Fish** – This is designed to cover those lakes in southern and central Minnesota, where rough fish removal and stocking of rescued fish are common management procedures. They include lakes which occasionally winterkill where management is aimed at building up a desirable fish population in as short time as possible.
6. **Regular Winter Kill** – Management of lakes is usually confined to rescue work and/or walleye fry stocking. Fishing is of the boom or bust type.

It should be noted that in addition to the DNR's Lake Management Classification System, which is based upon fisheries resources, many of the County's lakes are or should be managed for wildlife production.

**Table 4R:
Lake Ecological and Management Classifications**

Lake Name	Ecological Class	Management Class
Maple (47-0001)	Bullhead	Regular Winter-Kill
Francis (47-0002)	Centrarchid	Walleye-Centrarchid
Jennie (47-0015)	Rough Fish-Game Fish	Walleye-Centrarchid
Wolf (47-0016)	Rough Fish-Game Fish	Warm-Water Game Fish
Arville (47-0023)	Rough Fish-Game Fish	Regular Winter-Kill
Little Swan (47-0025)	Centrarchid	Centrarchid
Long (47-0026)	Centrarchid	Centrarchid
Spring (47-0032)	Centrarchid	Centrarchid
Big Swan (47-0038)	Centrarchid	Walleye-Centrarchid
Betty (47-0042)	Centrarchid	Walleye-Centrarchid
Washington (47-0046)	Centrarchid	Walleye-Centrarchid
Belle (47-0049)	Centrarchid	Walleye-Centrarchid
Manuella (47-0050)	Centrarchid	Walleye-Centrarchid
Willie (47-0061)	Unclassified	Walleye-Centrarchid
Greenleaf (47-0062)	Centrarchid	Centrarchid
Erie (47-0064)	Centrarchid	Walleye-Centrarchid
Stella (47-0068)	Centrarchid	Walleye-Centrarchid
Dunns (47-0082)	Rough Fish-Game Fish	Warm-Water Game Fish
Richardson (47-0088)	Rough Fish-Game Fish	Centrarchid
Clear (47-0095)	Centrarchid	Walleye-Centrarchid
Little Mud (47-0096)	Centrarchid	Trout
Round (47-0102)	Centrarchid	Regular Winter-Kill
Hoff (47-0106)	Bullhead	Regular Winter-Kill
Minnie Belle (47-0119)	Centrarchid	Walleye-Centrarchid
Goose (47-0127)	Bullhead	Game
Star (47-0129)	Bullhead	Warm-Water Game Fish
Ripley (47-0134)	Centrarchid	Centrarchid
Youngstrom (47-0138)	Bullhead	Regular Winter-Kill
Thompson (47-0159)	Bullhead	Warm-Water Game Fish
Long (47-0177)	Bullhead	Regular Winter-Kill
Hope (47-0183)	Bullhead	Regular Winter-Kill
Peterson (47-0198)	Rough Fish-Game Fish	Warm-Water Game Fish

Reference:

Minnesota Department of Natural Resources, Division of Fisheries, Spicer Area Office

Biological Surveys and Reconnaissance Studies *(Data Item 53)*

Minnesota County Biological Survey

The Minnesota County Biological Survey (MCBS) began in 1987 as a systematic survey of rare biological features. The goal of the MCBS is to identify significant natural areas and to collect and interpret data on the distribution and ecology of rare plants, rare animals and native plant communities. Native habitats surveyed by the MCBS contribute to a sustainable economy and society because they:

- Provide reservoirs of genetic materials potentially useful in agriculture and medicine.
- Provide ecological services that contribute to the quality of air, soil and water.
- Provide opportunities for research and monitoring on landscapes, native plant communities, plants, animals and their relationships within the range of natural variation.
- Serve as benchmarks for comparison of the effects of resource management activities.
- Are part of natural ecosystems that represent Minnesota's natural heritage and are sources of recreation, beauty and inspiration.

To date, the MCBS has added approximately 12,800 new records of rare plants and animals to the Rare Features Database of the Natural Heritage Information System (NHIS). Work for the survey has been completed in 50 of Minnesota's 87 counties. Meeker County's survey is currently in progress. Additional information concerning the MCBS and the NHIS can be found under Data Item #55.

DNR Fisheries

According to the Minnesota Department of Natural Resources (DNR), Division of Fisheries, Hutchinson Area Office, surveys and assessments of fish populations are available for DNR "managed" lakes. Definitions of the various surveys and assessments conducted by the DNR are given below. Table 4S provides a listing of the surveys and assessments that have been conducted in Meeker County.

Reconnaissance Survey – Consists of walking, canoeing or boating the entire length of a stream and recording such information as topography and use of surrounding land, pollution problems, location of public accesses and distribution of aquatic plants.

Initial Survey – Consists of collecting more detailed physical, chemical and biological data on specific sampling locations identified in the reconnaissance survey.

Population Assessment – Consists of collecting data specifically on fish populations from similar reaches.

**Table 4S:
DNR Fisheries Surveys and Assessments**

Watercourse	Survey Type	Year
Clearwater River	Initial Survey	1981
Clearwater River	Population Assessment	1997
Grove Creek	Reconnaissance	1993
Jewitts Creek	Population Assessment	1991
Middle Fork Crow River	Population Assessment	1991
North Fork Crow River	Population Assessment	1995
North Fork Crow River	Population Assessment	1994
North Fork Crow River	Resurvey	1990
North Fork Crow River	Population Assessment	1987
North Fork Crow River	Population Assessment	1978
North Fork Crow River	Biological Survey	1977
South Fork Crow River	Population Assessment	1994
South Fork Crow River	Initial Survey	1978
Sucker Creek	Population Assessment	1976
Sucker Creek	Population Assessment	1978
Sucker Creek	Population Assessment	1980
Sucker Creek	Population Assessment	1988
Sucker Creek	Population Assessment	1990
Sucker Creek	Initial or Resurvey	1976
Stag Brook Creek	Reconnaissance	1991
Washington Creek	Reconnaissance	1991
Washington Creek	Initial Survey	1993
Willow Creek	Resurvey	1993
Willow Creek	Resurvey	1980

References:

Minnesota Department of Natural Resources, Division of Ecological Services
 Minnesota Department of Natural Resources, Division of Fisheries, Hutchinson Area Office

Management Plans for Fish and Wildlife Areas
(Data Item 54)

Minnesota Department of Natural Resources (DNR) Fisheries personnel routinely survey lakes and streams in the State. Data collected in the survey process includes the initial survey, resurveys, population assessments, reproduction checks and creel surveys. Information collected is often used to develop and revise Lake and Stream Management Plans (LSMP). LSMPs include long-range goals, operational plans, mid-range objectives, potential plans, primary and secondary species management and a narrative section. Plans are periodically revised as new data is collected and information from other sources becomes available. Table 4T identifies the 35 LSMPs that are currently in place for Meeker County.

Table 4T:
Lake and Stream Management Plans

Lake Name	Year Adopted	Lake Name	Year Adopted
Arvilla (47-0023)	1996	Manuella (47-0050)	2000
Belle (47-0049)	1999	Maple	1987
Betsy	1998	Minniebelle	2000
Big Swan (47-0038)	1998	Mud (47-0059)	1998
Clear (47-0095)	2001	North Fork Crow River	1991
Clearwater River	1998	Peterson	1992
Dunns (47-0082)	2000	Richardson (47-0088)	2000
Erie (47-0064)	2001	Ripley (47-0134)	2001
Francis (47-0002)	1997	Round	1990
Goose	1989	Spring (47-0032)	1999
Greenleaf (47-0062)	1997	Star (47-0129)	1998
Hoff (47-0106)	1987	Stella (47-0068)	2000
Hope	1992	Sucker Creek	1991
Jennie (47-0015)	2001	Thompson (47-0159)	1999
Jewitt Creek	1991	Washington (47-0046)	2000
Little Mud (47-0096)	1999	Willie (47-0061)	1997
Little Swan	1997	Youngstrom	1988
Long (47-0017)	1987		

During the process of conducting lake and stream surveys, the DNR, Division of Fisheries has identified opportunities to not only improve fish and wildlife habitat, but also improve water quality. Opportunities identified by the DNR include:

1. Stormwater retention ponds, siltation basins, and restoration and development of wetlands in strategic locations that can provide waterfowl production and northern pike spawning.

2. Protection, preservation and establishment of native emergent vegetation (i.e., cattails, bulrushes, ect.) yield water quality benefits, while providing fish and wildlife habitat.
3. Stabilization of shoreline utilizing buffer strips, riprap and other erosion and siltation prevention measures, could enhance natural spawning shoals and minimize turbidity.
4. Carp, and other undesirable fishes uproot vegetation and stir up bottom sediments and destabilize shoreline areas. Electric fish barriers and velocity culverts in strategic locations could minimize or prevent migration of undesirable fish species.
5. Winter aeration of marginal fish producing waters and stocking of desirable species can provide additional recreational opportunities, spread out/reduce angling pressure on existing resources and through biological control, reduce the abundance of undesirable fish.
6. Aquatic plant management, including the detection and control of exotic plant species (i.e., Eurasian Watermilfoil, Purple Loosestrife and Curled Pondweed).
7. Diversion of storm sewers, drainage tiles, county ditches and sewage treatment facilities away from lakes and streams into wetlands or through sedimentation basins.

Reference: Minnesota Department of Natural Resources, Division of Fisheries, Hutchinson Office

Implications and Assessment

Increasing and improving wildlife habitat in Meeker County is an important component of this plan. In addition to providing benefits to wildlife, wood and grass covered habitat areas aid in reducing wind and water erosion by stabilizing the topsoil. Currently, the Minnesota Department of Natural Resources (DNR) manages 16 Wildlife Management Areas, 3 Aquatic Management Areas and 5 Northern Pike Spawning Areas in Meeker County. In addition to these lands, the United States Fish and Wildlife Service (USFWS) currently manages 17 Waterfowl Production Areas in the County. Both Federal and State owned lands are being actively managed to ensure necessary conditions for fish and wildlife habitat. Additional opportunities for fish and wildlife habitat exist through these programs.

DNR Fisheries personnel routinely survey lakes and streams within Meeker County. Currently, 35 Lake and Stream Management Plans (LSMPs) are on file for the County. These LSMPs include long-range goals, operational plans, objectives, species management and narrative sections. Methods to ensure continued support of the County's fisheries will be greatly augmented by the implementation of the surface water quality and lake management activities defined in this plan.

Additional possibilities for fish and wildlife habitat exist through Federal and State conservation programs (CRP, RIM, WRP, etc.) and conservation practices, such as buffer strips. Vegetative cover provided through these programs and practices not only reduces soil erosion, but it also provides valuable fish and wildlife habitat. The County should explore the development of an integrated roadside management program, which recognizes the important role it plays in providing wildlife habitat.

Unique Features and Scenic Areas (Data Item 55)

The Federal Endangered Species Act of 1973 requires the U.S. Department of the Interior to identify species as endangered or threatened, according to a separate set of definitions, and imposes a separate set of restrictions pertaining to those species. Definitions for endangered, threatened and species of special concern are provided below.

- **Endangered Species** - A species is considered endangered if the species is threatened with extinction throughout all or a significant portion of its range within Minnesota.
- **Threatened Species** - A species is considered threatened if the species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range within Minnesota.
- **Species of Special Concern** - A species is considered a species of special concern if, although the species is not endangered or threatened, it is extremely uncommon in Minnesota, or has unique or highly specific habitat requirements and deserves careful monitoring of its status. Species on the periphery of their range that are not listed as threatened may be included in this category, along with those species that were once threatened or endangered but now have increasing or protected, stable populations.

Minnesota's Endangered Species Statute (Minnesota Statutes, Section 84.0895) requires the Minnesota Department of Natural Resources (DNR) to adopt rules designating species meeting the statutory definitions of endangered, threatened, or species of special concern. The resulting list of endangered, threatened and species of special concern is codified as Minnesota Rules, Chapter 6134. The Endangered Species Statute also authorizes the DNR to adopt rules that regulate treatment of species designated as endangered and threatened.

Minnesota's Endangered Species Statute and the associated Rules impose a variety of regulations pertaining to species designated as endangered or threatened. Under State regulations, a person may not take, import, transport, or sell any portion of an endangered or threatened species. However, these acts may be allowed through the issuance of a DNR permit. In addition, certain exemptions exist for agricultural lands and for the accidental, unknowing destruction of designated plants. Minnesota's Endangered Species Statute or associated Rules does not protect species of special concern.

Map 4E shows the general location of rare plants, animals and geologic features in Meeker County, as derived from the Minnesota DNR Natural Heritage Information System (NHIS) on November 26, 2001. The NHIS is a statewide database, which includes information from the County Biological Survey, on rare species and features. The lack of data for any geographic area should not be construed to mean that no significant features are present. In addition, there may be inaccuracies in the data, of which the DNR is not aware and shall not be responsible for.

Table 4U lists the rare features and species that are found within the County, including natural communities, animal aggregations, animals and plants. Information concerning common name, legal status, date last observed and number of occurrences is also provided.

**Table 4U:
Rare Features and Species**

Feature/Species	Common Name	Legal Status	Last Observed	# of occurrences
Natural Communities	Calcareous Seepage Fen (Central)	NA	2000	1
	Mesic Prairie (Central)	NA	1998	1
	Wet Prairie (Southeast)	NA	1998	1
Animal Aggregations	Colonial Waterbird Nesting Site	NA	1992	2
Animals	Common Moorhen	Special Concern	2001	1
	Bald Eagle	Special Concern	2000	5
	Loggerhead Shrike	Threatened	1995	2
	Pugnose Shiner	Special Concern	2000	3
Plants	Small White Lady's Slipper	Special Concern	1982	2
	Beach Heather	Special Concern	1919	1
	American Ginseng	Special Concern	1998	2

Reference:

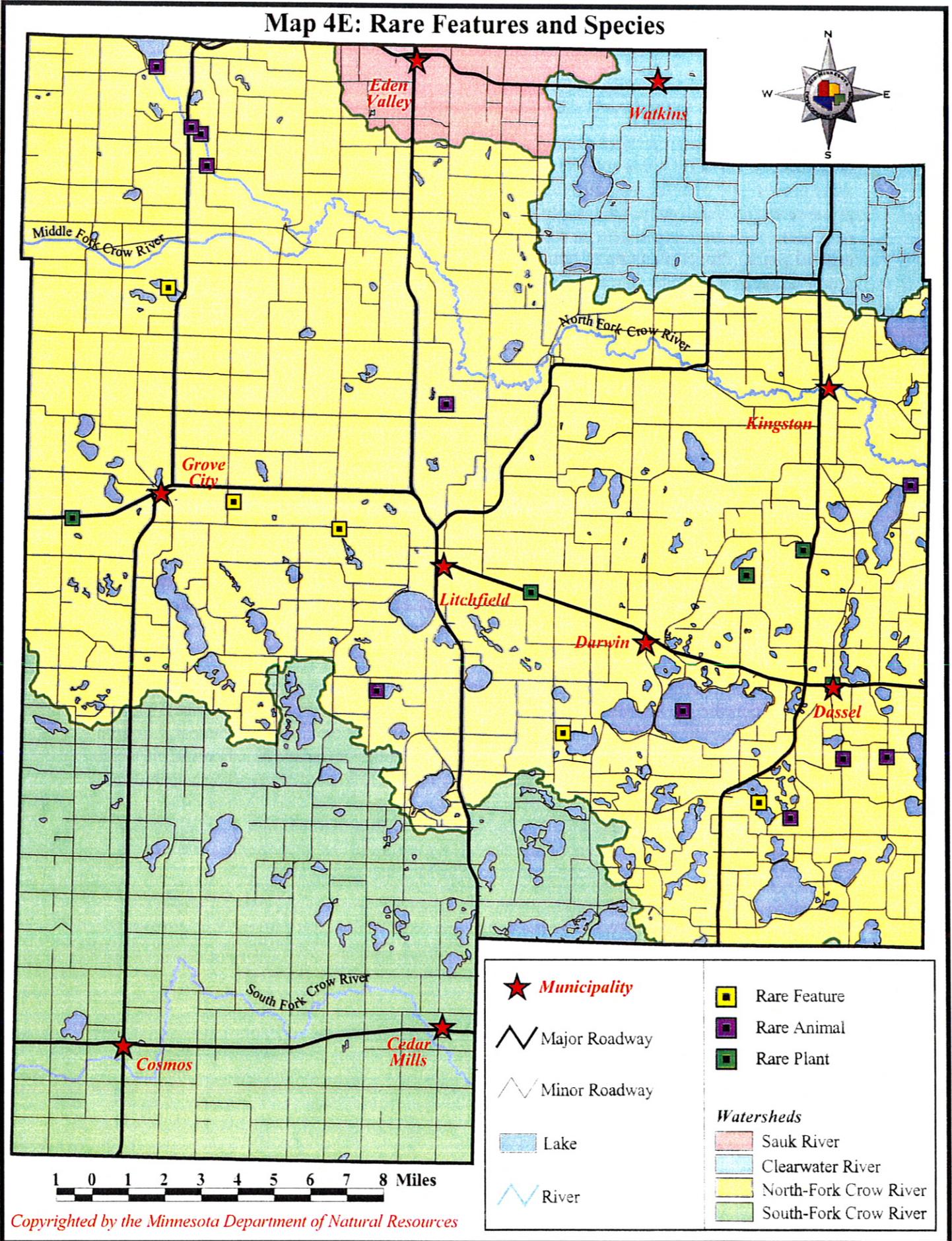
Minnesota Department of Natural Resources, Division of Ecological Services

Implications and Assessment

The Minnesota Department of Natural Resources' (DNR) Natural Heritage Information System (NHIS) identifies Meeker County's rare plants, animals, natural communities and features, many of which are tied to water resources. The NHIS includes information from the County Biological Survey, which is due to be completed in 2003. Map 4E details the approximate locations of the County's rare features and species. Because of the possible threat of disturbance or destruction, the DNR does not allow maps to show or detail the exact location of rare species or features.

To protect its rare features and species, Meeker County should support Federal, State and local agencies and groups in providing a wide array of protection options for these areas, including purchasing. The County should also work with the DNR to develop land use regulations that are receptive to protecting rare features and species.

Map 4E: Rare Features and Species



Municipality	Rare Feature
Major Roadway	Rare Animal
Minor Roadway	Rare Plant
Lake	Watersheds
River	Sauk River
	Clearwater River
	North-Fork Crow River
	South-Fork Crow River

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Expected Changes to Surface Water, Groundwater and Related Land Resources

Based on population projections provided Tables 1B and 1C, Meeker County is expected to gain an additional 1,879 residents and 728 households by the year 2020, if it simply experiences the same growth rate over the next 20 years, as it has since 1960. However, because of development pressure within the County, the fast projection rate should be used for planning purposes. At this rate, Meeker County would gain an additional 2,819 residents and 1,091 households over the next 20 years. Proper planning of future growth and development will be essential to the preservation of the County's water resources. Issues, such as erosion and stormwater management, should be focused upon in this planning effort.

According to the 1989 Minnesota Land Use-Agricultural and Transition Areas Inventory, 70.9 percent of Meeker County is cultivated agricultural land. Agricultural related issues, such as sedimentation and nutrient management, should be focused upon in these areas to protect and improve the condition of the County's water resources. Several Federal and State programs, such as CRP, EQIP and RIM, provide opportunities for landowners to address these issues in the form of best management practices (BMPs) and short term and perpetual conservation easements. Over the next ten years, it is expected that the number of BMPs and conservation easements in the County will remain at least at current levels, depending on Federal and State funding.

Countywide, groundwater is the primary source of drinking water for residents. Protection of this valuable resource, through programs like the Minnesota Department of Health's (MDH) Wellhead Protection Program, is imperative. A total of 12 water suppliers in the County are expected to develop wellhead protection plans in the upcoming years. The County should take an active role and assist these water suppliers in meeting this requirement.

The wastewater treatment needs of municipalities should be assessed to ensure adequate design capacity. According to the Minnesota Pollution Control Agency (MPCA), the City of Litchfield is in need of wastewater treatment facility upgrades to remain in compliance with State and Federal discharge requirements. In addition, the unsewered communities of Cedar Mills, Forest City, Green Leaf, Kingston and Manannah have been identified by MPCA as in need of installing a centralized sanitary sewer system. Over the next ten years, Meeker County should assist each of these communities in seeking options to install or upgrade their existing systems, thus avoiding further degradation of water resources. In addition, there is a need for all local units of government to address stormwater treatment as development occurs in urban and rural areas.

Through the implementation of the Minnesota Wetland Conservation Act (WCA), State Protected Waters Inventory, Swampbuster and Section 404 of the Clean Water Act, wetland loss in Meeker County is expected to be minimal. In addition, wetland restoration projects are likely to occur under one of the Federal and State incentive programs. Wetland restorations will benefit both surface and groundwater resources.

Concern has been raised about the quality of surface water in Meeker County. Lakes and streams in the County are often difficult to manage because of point and nonpoint source pollution. Additional assessment of the County's lakes and streams will be necessary to determine and remediate pollution sources. Administrative, technical and financial assistance from the Federal and State level will be needed to accomplish goals and objectives identified in this plan.

CHAPTER FIVE: MEEKER COUNTY ISSUES, GOALS, OBJECTIVES AND ACTIONS

Chapter five of the Water Plan establishes the County's issues, goals, objectives and actions. Goals are used as a framework for the objectives and actions, which, in turn, reflect upon what water related issues are important to the County's residents. This chapter contains a ten-year implementation plan and a five-year focus plan, which will serve as a guide to the County in managing its water resources.

On February 5, 2002, a public informational meeting was held to identify issues to be addressed in the Meeker County Comprehensive Local Water Plan. This meeting provided the public, as well as local, State and Federal governmental units, an opportunity to present information and concerns about water-related issues that they believe should be considered in the updated plan.

A total of 43 issues were identified at the public informational meeting. The Meeker County Water Plan Taskforce reviewed each of the issues and prioritized them based upon the following three tiered system:

Urgent: Issues that must be addressed immediately. These would be issues where serious threats to public health or sensitive resources are possible if they are not addressed or where important opportunities could be lost through inaction.

Important: Issues that will be dealt with as funds and personnel become available.

Noteworthy: Issues that are not crucial to human health or resource protection.

Listed below are the issues that were identified at the public informational meeting, categorized by the taskforce's assigned priority. Map 5A displays the taskforce's top priority issues/opportunities per watershed.

- **Urgent**

- Need for wastewater treatment funding
- Identification of areas that need a combined sewage treatment system
- Assigning Total Maximum Daily Loads (TMDLs) to impaired waters
- Need for water quality data to be stored in a centralized location
- Upgrading of failing ISTSs
- Educating the public about ISTSs
- Shoreland management and stabilization
- Use of phosphorus free fertilizers for lawns, unless soil testing indicates otherwise
- Proper disposal of hazardous waste and chemicals
- Capping and sealing abandoned wells
- Implementation of Wellhead Protection Plans

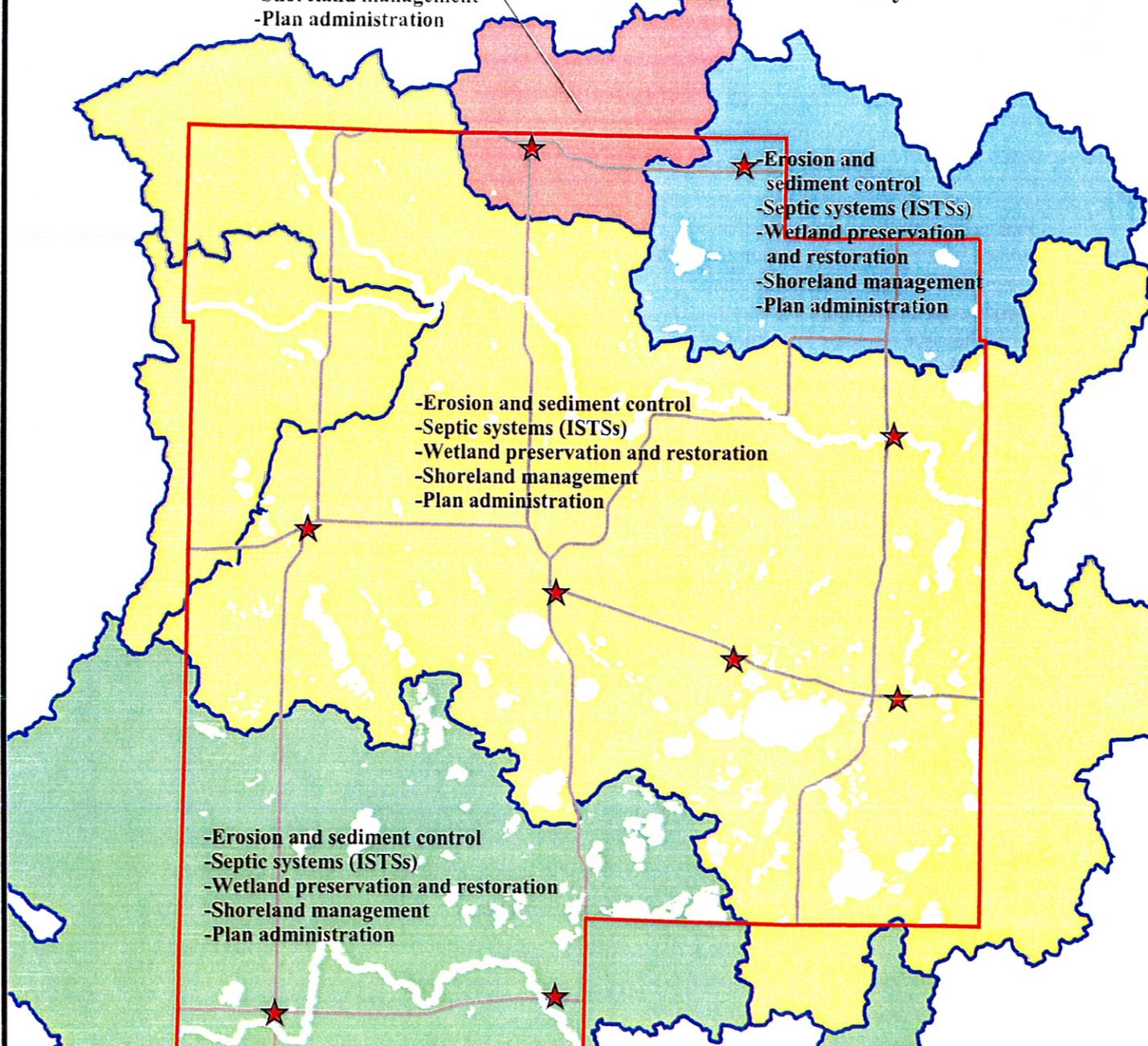
- **Urgent (continued...)**
 - Controlling runoff and erosion
 - Converting marginal land into wildlife and recreation areas
 - Placement and enforcement of buffer strips along drainage ditches
 - Wetland restoration
 - Support of conservation programs
 - Support of the efforts of watershed management-like organizations
 - Coordinating the efforts and responsibilities of agencies, districts and projects
 - Need to assess the cumulative effects of feedlots, developments and gravel pits

- **Important**
 - Innovative methods of sewage treatment
 - Analysis of lakesheds
 - Need for citizens to participate in the MPCA's Citizens Lake Monitoring and Citizen Stream Monitoring Programs
 - Identification of areas prone to nitrate contamination
 - Water fluctuation, flooding and subsequent erosion (i.e. Big Swan Lake and Lake Koronis)
 - Identification of critical erosion-prone area
 - Management of urban runoff
 - Linking the Water Plan to the County's Comprehensive Plan and Zoning Ordinance
 - Need to communicate the issues of the Water Plan to the general public
 - Enforcement of burning regulations
 - Water-related education within the school systems
 - Identification of calcareous fens
 - Promotion of conservation subdivisions

- **Noteworthy**
 - Maintaining septic systems through the County for a fee, similar to Chisago County.
 - Expanding the use of the Natural Sensitive lake classification
 - Inventorying the capacity of wastewater treatment facilities
 - Enforcement of the regulations controlling the means by which septic pumpers dispose of waste
 - Leaking above ground and underground storage tanks
 - Distribution of a fact sheet regarding Water Plan goals and related water management programs and funding sources
 - Need to assess the effects of groundwater pumping and withdrawal
 - Home and municipal water conservation

Map 5A: Five Year Priority Issues by Watershed

- Erosion and sediment control
- Septic systems (ISTSS)
- Wetland preservation and restoration
- Shoreland management
- Plan administration



- Erosion and sediment control
- Septic systems (ISTSS)
- Wetland preservation and restoration
- Shoreland management
- Plan administration

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- Plan administration

- Erosion and sediment control
- Septic systems (ISTSS)
- Wetland preservation and restoration
- Shoreland management
- Plan administration

★ Municipality	Watersheds
Major Roadway	Sauk River
Minor Roadway	Clearwater River
Lake	North-Fork Crow River
River	South-Fork Crow River



- **Noteworthy (continued...)**

- Identification of areas of municipal sewer and water infrastructure that have inflow and infiltration (I&I) problems
- Incorporating the possibility of a new State Park in Meeker County in the Water Plan
- Support of water-based recreation within the County

Once prioritized, the taskforce then reviewed each of the issues, along with the existing Water Plan, to develop goals, objectives and actions for the more comprehensive ten-year implementation plan. To more effectively implement these strategies, the taskforce identified the highest priority goals, objectives and actions from this plan and devised the five-year focus plan. The five-year focus plan identifies specific and quantitative goals, objective and actions that the County looks to achieve over the next five years (2003-2007).

In order to lay the foundation for achieving goals and objectives specified in the ten-year implementation plan and five-year focus plan, all actions are assigned specific implementation information. Information assigned to each action includes: applicable watershed(s), timeline, coordinating agencies (including the lead), funding source(s) and local cost. In addition, each of the actions in the ten-year implementation plan has been given a priority (*Note: this was not done to the five-year focus plan because all actions identified in this plan are of high priority to the County*). The following provides a definition of each of these parameters.

Priority: Actions are prioritized based on urgent, important and noteworthy (see definitions on Ch. 5, Pg. 1). Actions ranked as urgent should be addressed immediately.

Coordinating Agencies	
FEDERAL	
Army Corps of Engineers (ACOE)	
Natural Resource Conservation Service (NRCS)	
United States Fish and Wildlife Service (USFWS)	
STATE	
Minnesota Board of Soil and Water Resources (BWSR)	
Minnesota Department of Agriculture (MDA)	
Minnesota Department of Health (MDH)	
Minnesota Department of Natural Resources (DNR)	
Minnesota Geological Survey (MGS)	
Minnesota Pollution Control Agency (MPCA)	
University of Minnesota Extension Service (UMES)	
LOCAL	
County	
Ditch Authority (DA)	
Highway Department (HD)	
Planning and Zoning (PZ)	
Soil and Water Conservation District (SWCD)	
Solid Waste (SW)	
Municipalities	
Townships	
Watershed Management-Like Organizations (WMLOs)	
Clean Water Partnerships	
Lake Associations	
Watershed Districts	
Watershed Projects	

Applicable Watershed(s): Details which watershed(s) the action is applicable to, whether it be the Clearwater River (CR), North Fork of the Crow River (NFCR), Sauk River (SR) or South Fork of the Crow River (SFCR) Watershed. If the action applies to all four of the watersheds, "All" is listed.

Timeline: Provides a timeframe, from 2003 to 2012, for when the action will be initiated and completed.

Coordinating Agencies: Entails the Federal, State and local agencies and offices that will be involved in the implementation of the action item. A listing of possible participants is given in the text box on the previous page.

Funding Source(s): Details where funding for implementing the action is expected to come from, whether it be from Federal, State or local sources (i.e. programs, grants, NRBG, etc.).

Local Cost: Is the estimated cost, at the local level, that it will take to implement each action. This estimate includes costs that would be incurred to the County, townships and watershed management-like organizations (*please note that this estimate does not factor in costs to municipalities*).

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Meeker County Chapter 5 – Five-Year Focus Plan

GOAL 1: PROTECT AND IMPROVE SURFACE WATER QUALITY.

Objective 1: Decrease the nutrient and sediment concentration of surface water to the 50th percentile of the Western Corn Belt Plains and North Central Hardwood Forests Ecoregions.

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (<i>Lead</i>)	Funding Source(s)	5-yr. Local Cost (approx.)
Enroll 10,000 acres in State and Federal programs that take highly erodible land out of crop production.	All	2002-2007	NRCS, SWCD, BWSR	Federal, State, Local	\$15,000
Implement filter strips and riparian buffers on 15 miles adjacent to drainage ditches, streams, rivers, wetlands, and lakes.	All	2002-2007	NRCS, SWCD, UMES, WMLOs	Federal, State, Local	\$15,000
Work with landowners and operators on implementing Core 4 conservation practices and other BMPs to control erosion, reduce runoff and improve production.	All	2002-2007	NRCS, SWCD, UMES	Federal, State, Local	\$50,000
Develop and maintain a digital soil map and utilize to assist County staff and decision-makers on land use changes.	All	2004	NRCS, SWCD	Federal, Local	\$100,000
In conjunction with Lake Associations, develop programs to discourage the use of phosphorus fertilizer around lakes by residential lakeshore property owners and promote use of water quality BMPs for lakeshore properties.	All	2002-2007	DNR, PZ, SWCD	Local	\$10,000
Require adequate erosion and sediment control measures be implemented on subdivisions and replats.	All	2002-2007	PZ, WMLOs	Local	\$20,000
Encourage the use of stormwater retention basins, rather than natural wetlands, for runoff retention and water quality treatment.	All	2002-2007	MPCA, PZ, SWCD	State, Local	\$5,000

GOAL 2: PROTECT WATER RESOURCES FROM FAILING SEPTIC SYSTEMS.

Objective 1: Bring 125 nonconforming ISTSs into compliance per year.

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (Lead)	Funding Source(s)	5-yr. Local Cost (approx.)
Enforce the County's Individual Sewage Treatment System Ordinance.	All	2002-2007	PZ	State, Local	\$125,000
Work closely with Federal, State and local agencies and groups in educating the public on proper ISTS operation and maintenance.	All	2002-2007	MPCA, PZ, UMES	Federal, State, Local	\$12,500
Apply for and administer the MDA State Revolving Fund program and other related programs for upgrading ISTSs.	All	2002-2007	PZ, SWCD	State, Local	\$5,000
Continue and update the inventory of existing ISTSs.	All	2002-2007	PZ	State, Local	\$7,500

GOAL 3: PROTECT WATER RESOURCES FROM THE IMPACT OF SHORELAND DEVELOPMENT.

Objective 1: Through education and regulation, protect shoreland areas within the County.

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (Lead)	Funding Source(s)	5-yr. Local Cost (approx.)
Revise County shoreland controls, as necessary, to promote consistent and sustainable development.	All	2003-2007	DNR, PZ	State, Local	\$2,000
Encourage lawn chemical (pesticides, herbicides, and fertilizers) use along lakeshores and streams to be done in accordance with established restrictions and recommended application techniques. Work with Lake Associations through educational efforts.	All	2002-2007	DNR, PZ, WMLOs	State, Local	\$5,000

Objective 1: Through education and regulation, protect shoreland areas within the County (Continued...).

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (Lead)	Funding Source(s)	5-yr. Local Cost (approx.)
Review all shoreland alteration projects, by means of the County Shoreland Zoning Ordinance and DNR Protected Waters permits.	All	2002-2007	DNR, PZ, SWCD	State, Local	\$10,000
Provide education and technical assistance on controlling lakeshore and streambank erosion and if available, provide State cost share assistance for the control of erosion in these areas.	All	2002-2007	DNR, PZ, SWCD	Federal, State, Local	\$10,000
Work with Lake Associations on promoting and demonstrating "lakescaping", which improves fish habitat and reduces the movement of pollution and nutrients into lakes.	All	2003-2007	DNR, PZ, WMLOs	State, Local	\$5,000

GOAL 4: INCREASE WETLAND PRESERVATION AND RESTORATION EFFORTS.

Objective 1: Through education and regulation, preserve existing wetlands within the County.

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (Lead)	Funding Source(s)	5-yr. Local Cost (approx.)
Enforce WCA, Farm Bill, and Protected Waters wetlands through applicable Local, State and Federal regulations.	All	2003-2007	DNR, SWCD, NRCS	Federal, State, Local	\$100,000
On all drainage ditch projects, the Drainage Authority and landowners will complete all state and federal requirements to insure compliance with laws and regulations.	All	2003-2007	DA, DNR, PZ, NRCS, SWCD, USFWS	Federal, State, Local	\$10,000
Through newsletters, bulletin boards, and radio, educate landowners on County tax structure, cost share options, and easement programs for wetlands.	All	2003-2007	SWCD, USFWS	Federal, State, Local	\$15,000

Objective 1: Through education and regulation, preserve existing wetlands within the County (Continued...).

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (Lead)	Funding Source(s)	5-yr. Local Cost (approx.)
Utilize newsletters and radio to provide educational information to the public on the functions and values of wetlands.	All	2003-2007	PZ, SWCD	Federal, State, Local	\$5,000
The County will continue its designation as a high priority wetland preservation area for Minnesota Wetlands Conservation Act administration.	All	2003-2007	PZ, SWCD	NA	NA

Objective 2: Provide educational and technical assistance to landowners to restore 750 acres of wetlands within the County.

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (Lead)	Funding Source(s)	5-yr. Local Cost (approx.)
The County will establish a priority list of subwatersheds that could be targeted for wetland restorations.	All	2003	PZ, SWCD, DNR, NRCS, USFWS, WMLOs	Federal, State, Local	\$3,000
Provide educational and technical assistance to landowners regarding State and Federal programs to restore wetlands.	All	2003-2007	NRCS, PZ, SWCD, WMLOs	Federal, State, Local	\$50,000
Provide information to landowners who inquire about the State wetland-banking program.	All	2003-2007	PZ, SWCD, NRCS	Federal, State, Local	\$5,000
Work with the County Drainage Authority on abandoning or relocating public drainage systems in conjunction with wetland restorations.	All	2003-2007	SWCD, NRCS	Federal, Local	\$5,000

GOAL 5: IMPROVE AGENCY AND PUBLIC PARTICIPATION, COOPERATION AND COORDINATION IN IMPLEMENTING WATER PLAN GOALS AND OBJECTIVES.

Objective 1: Increase opportunities for agency and public involvement in water resource management within the County.

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) (<i>Lead</i>)	Funding Source(s)	5-yr. Local Cost (approx.)
Meet annually with all watershed management-like organizations in developing and implementing water management activities which are consistent with the Water Plan.	All	2002-2007	PZ, SWCD	State, Local	\$5,000
Hold semiannual meetings of the County Water Planning Committee.	All	2003-2007	PZ	Local	
The County Water Planning Committee shall annually review the implementation of the Water Plan.	All	2003-2007	PZ, SWCD	Local	\$5,000
The Water Planning Coordinator shall be available to provide assistance in answering or referring questions concerning Plan implementation and County actions.	All	2003-2007	PZ	State, Local	\$5,000
Provide information to landowners and private interest groups on Federal, State, local and private sources of funding assistance for water resource management.	All	2002-2007	PZ, NCRS, SWCD	Federal, State, Local	\$15,000
Hold public meetings and/or attend local meetings as needed to keep the general public informed of current activities and progress.	All	2002-2007	PZ, SWCD	Local	\$5,000
Through brochures and the media, the County will promote the preservation and restoration of upland storage areas (wetlands, low-lying areas, basins).	All	2002-2007	PZ, SWCD	Local	\$10,000

Objective 1: Increase opportunities for agency and public involvement in water resource management within the County
(Continued...)

Actions	Applicable Watershed(s)	Timeline	Coordinating Agency(s) <i>(Lead)</i>	Funding Source(s)	5-yr. Local Cost (approx.)
Continue programs to educate landowners, rural and urban, on the proper application and disposal of agricultural and lawn chemicals and fertilizer based on established standards, including BMPs and integrated pest management.	All	2002-2007	UMES	State, Local	\$10,000
Promote and educate the public concerning solid waste reduction and reuse, as well as yard waste composting.	All	2002-2007	PZ	State, Local	\$25,000

Mecker County Chapter 5 – Ten-Year Implementation Plan

GOAL 1: ENSURE LONG TERM AGRICULTURAL PRODUCTION BY MAINTAINING EXISTING PUBLIC DRAINAGE SYSTEM BENEFITS.

Objective 1: Maintain the existing Judicial and County drainage ditch system to current regulatory specifications and as to promote water quality.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (<i>Lead</i>)	Funding Source(s)	10-yr. Local Cost (approx.)
Work to correct problems associated with ditch maintenance rather than their symptoms. Where clean-out of sediment is required, the Ditch Authority will work with the SWCD and landowners to control erosion through installation of practices such as side inlet structures, buffer strips, grassed waterways and tree windbreaks. (U)	All	2003-2012	DA, NRCS, SWCD	State, Local	\$75,000
Evaluate the impact of additional tiling on the County's drainage system. (U)	All	2003	DA, WMLOs	Local	\$1,000
Request technical and financial assistance to ensure adequate sizing and outlets for side inlet structures to County and Judicial ditches and for proper clean-out profiles and cross-sections of these ditches. (I)	All	2003-2012	DA, NRCS, SWCD	State, Local, Private	\$40,000
Administer a Drainage System Repair Fund for each County and Judicial ditch system within the County, to be used only for repairs on the respective ditches, according to Minnesota Statutes Chapter 103 E. (I)	All	2003-2012	DA	Local	\$40,000
Evaluate impacts on wetlands, if future drainage ditch projects are planned, according to the Minnesota Wetland Conservation Act and other applicable wetland laws. (I)	All	2003-2012	BWSR, DA, DNR, NRCS	State, Local, Private	\$50,000

Objective 1: Maintain the existing Judicial and County drainage ditch system to current regulatory specifications and as to promote water quality (Continued...).

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Explore the feasibility of resloping drainage ditches to improve water quality and reduce erosion. (I)	All	2003-2012	DA	Local	\$10,000
Support, review and modernize current drainage law. (I)	All	2003-2012	DA	Local	\$5,000
Support the installation of dams or other control works in drainage ditch systems to impound or divert water, while maintaining the integrity of the ditch system. (I)	All	2003-2012	DA	Federal, State, Local	\$20,000

GOAL 2: MANAGE SURFACE WATER QUANTITY FOR AGRICULTURAL, COMMERCIAL/INDUSTRIAL, NATURAL RESOURCES AND RECREATIONAL PURPOSES, WHILE MINIMIZING FLOOD-RELATED DAMAGE.

Objective 1: Protect floodplain areas from encroachment and minimize flood-related damage through the implementation of projects and land use controls.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Continue to enforce existing floodplain regulations and prohibit encroachment in the defined floodway. (I)	All	2003-2012	DNR, PZ	Federal, State, Local	\$40,000
Review all shoreland alteration projects, by means of the County Shoreland Zoning Ordinance and DNR Protected Waters permits. (I)	All	2003-2012	DNR, PZ, SWCD	State, Local	\$20,000
Upon request of the township, the County will provide engineering services for the placement and replacement of township culverts. (I)	All	2003-2012	HD	Local	\$20,000

Objective 1: Protect floodplain areas from encroachment and minimize flood-related damage through the implementation of projects and land use controls (Continued...).

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Through education, promote the preservation and restoration of upland storage areas (wetlands, low-lying areas, basins). (I)	All	2003-2012	DNR, PZ, NRCS, SWCD	Local	\$20,000
Cooperate with watershed management-like organizations in evaluating and planning for needed flood reduction control activities. (I)	All	2003-2012	DNR, PZ, SWCD	Local	\$20,000
Work with the DNR and Lake Associations to resolve lake level conflicts. (I)	All	2003-2012	PZ	State, Local	\$10,000
Pursue grant programs and other opportunities to reduce flood damage. (N)	All	2003-2012	DNR, PZ, SWCD, WMLCs	Local	\$5,000
Explore the development of a County Stormwater Management Ordinance to require any future development to provide adequate ponding to maintain predevelopment runoff rates. (N)	All	2003-2007	PZ	Local	\$4,000
Encourage Federal, State and local agencies and groups to purchase flood-prone areas in the County. (N)	All	2003-2012	County	Federal, State	NA
In floodplain areas regulated by other State and local governments other than the County, the County shall support the regulatory agency in incorporating the aforementioned requirements. (N)	All	2003-2012	County	Local	NA

Objective 2: Gather and utilize information concerning surface water quantity.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Support the efforts of Federal, State and local agencies and watershed management-like organizations in installing and monitoring flow and level gauges on major rivers and lakes in the County. (I)	All	2003-2012	PZ, SWCD	Federal, State, Local	\$100,000
Implement educational efforts to control or reduce the effects of accelerated stormwater runoff. (I)	All	2003-2012	PZ, MPCA, SWCD	Federal, State, Local	\$10,000
Explore creating a County Surface Water Atlas GIS database. (I)	All	2003-2005	PZ, DNR	State, Local	\$2,000
Increase the number of rain gauge readers that report to the State Climatology Office to one per township. (I)	All	2003-2007	DNR, PZ, SWCD	State, Local	\$1,500

GOAL 3: MAXIMIZE THE BENEFITS OF WETLANDS IN MEEKER COUNTY.

Objective 1: Protect and enhance existing wetlands through financial incentives and existing regulations.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Support enforcement of applicable local, State and Federal regulations for all wetland types. (U)	All	2003-2012	County	Federal, State, Local	\$200,000
The County shall continue to be designated as a high priority wetland preservation area for Minnesota Wetlands Conservation Act administration. (I)	All	2003-2012	BWSR, PZ	State, Local	NA
Educate landowners on tax structure and easement programs for wetlands. (I)	All	2003-2012	DNR, NRCS, SWCD, USFWS	Federal, State, Local	\$75,000

Objective 1: Protect and enhance existing wetlands through financial incentives and existing regulations (Continued...).

Action	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
U=Urgent, I=Important, N=Noteworthy Explore opportunities to inventory and map, on a GIS database, former and existing wetlands on a watershed basis. (N)	All	2003-2007	DNR, PZ, SWCD	Federal, State, Local	\$2,000

Objective 2: Encourage voluntary wetland restoration through education and enrollment in conservation programs.

Action	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
U=Urgent, I=Important, N=Noteworthy Provide educational information to the public on the functions and values of wetlands. (I)	All	2003-2012	DNR, PZ, NRCS, SWCD, WMLOs	Federal, State, Local	\$10,000
Provide technical assistance to landowners desiring to restore wetlands. (I)	All	2003-2012	DNR, NRCS, SWCD	Federal, State, Local	\$100,000
Cooperate with Federal, State, local and private efforts in restoring wetlands. (I)	All	2003-2012	County	Local	\$5,000
Explore the development of a priority list of wetlands that could be restored. (I)		2003-2007	DNR, PZ, NRCS, SWCD, USFWS	Local	\$6,000

GOAL 4: PROTECT AND IMPROVE EXISTING SURFACE WATER QUALITY.

Objective 1: Provide educational and technical assistance to landowners regarding the treatment and/or control of agricultural runoff to enhance surface water quality.

Action	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
U=Urgent, I=Important, N=Noteworthy Assist landowners in implementing BMPs to control erosion and sediment, including buffer strips adjacent to waters. (U)	All	2003-2012	DNR, NRCS, SWCD, WMLOs	Federal, State, Local	\$200,000

Objective 1: Provide educational and technical assistance to landowners regarding the treatment and/or control of agricultural runoff to enhance surface water quality (Continued...).

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Promote Federal, State and local programs that educate landowners on BMPs to reduce dependence on agricultural chemicals. (I)	All	2003-2012	PZ, NRCS, SWCD, UMES	Federal, State, Local	\$40,000
Encourage and educate landowners on the replacement of tile intakes with blind or slotted offset riser intakes. (I)	All	2003-2012	SWCD, UMES	Local	\$3,000
Continue to promote State and Federal land retirement programs and support local administration of such programs. (I)	All	2003-2012	County	Local	\$5,000
Utilize technology to analyze lakesheds throughout the County. (N)	All	2003-2012	DNR, PZ, SWCD	State, Local	\$10,000

Objective 2: Utilize programs and regulations to protect surface water resources from livestock manure contamination.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Administer the County Feedlot Ordinance, in conjunction with MPCA's feedlot permit program. Also, cooperate with MPCA in monitoring these feedlots. (U)	All	2003-2012	MPCA, PZ, NRCS, SWCD	Federal, State, Local	\$150,000
Develop and maintain an inventory of all feedlots, both active and inactive. (I)	All	2003-2012	PZ, MPCA, SWCD	State, Local	\$60,000
Provide technical assistance and promote Federal and State cost share programs for upgrading feedlots. (I)	All	2003-2012	NRCS, PZ, SWCD	Local	\$100,000

Objective 3: Through education and regulation ensure the safe and effective use of individual sewage treatment systems and municipal wastewater treatment facilities.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Enforce the County's Individual Sewage Treatment System Ordinance and require nonconforming systems to become in compliance. (U)	All	2003-2012	PZ	State, Local	\$250,000
Continue and update the inventory of existing ISTSs. (I)	All	2003-2012	PZ	State, Local	\$15,000
Apply for and administer the MDA State Revolving Fund program and other related programs for upgrading ISTSs. (I)	All	2003-2012	PZ, SWCD	State, Local	\$10,000
Work closely with Federal, State and local agencies and groups in educating the public on proper ISTS operation and maintenance. (I)	All	2003-2012	MPCA, PZ, UMES	Federal, State, Local	\$25,000
Provide technical assistance to municipalities in developing Sewage and Wastewater Ordinances. (I)	All	2003-2012	PZ	Local	\$5,000

Objective 4: Continue water quality monitoring efforts on lakes and streams.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Promote and assist local residents in developing local Lake Associations and in participating in MPCA's Citizen Lake Monitoring Program and DNR Waters Lake Level Monitoring Program. Provide water quality monitoring equipment to Lake Associations, as available. (I)	All	2003-2012	PZ, SWCD, DNR, MPCA	State, Local	\$15,000

Objective 4: Continue water quality monitoring efforts on lakes and streams (Continued...).

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Provide seed money and/or in-kind labor, as available, to watershed management-like organizations for the performance of diagnostic, feasibility or other studies. (I)	All	2003-2012	County	Local	\$50,000
Work with the MPCA and other Federal, State and local agencies and groups on developing TMDL plans, if required, on impaired waters in the County. (I)	All	2003-2012	PZ, SWCD, WMLOs	Federal, State, Local	\$50,000
Coordinate with watershed management-like organizations in monitoring water quality. (I)	All	2003-2012	PZ, SWCD	Federal, State, Local	\$300,000
Encourage and work with the State to develop and maintain a centralized database of surface water quality data. (I)	All	2003-2012	MPCA, PZ	State, Local	\$2,500
Explore the use of fecal coliform bacteria DNA fingerprinting to determine pollution sources. (N)	All	2003-2007	MPCA, PZ, UMES, WMLOs	Federal, State	\$1,000

Objective 5: Implement programs and regulations to minimize the effects of development (rural, urban, industrial and shoreland) and construction activities on water quality.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Develop and maintain a digital soil map and utilize to assist County staff and decision-makers on land use changes. (I)	All	2003-2012	NRCS, SWCD, PZ	Federal, Local	\$100,000

Objective 5: Implement programs and regulations to minimize the effects of development (rural, urban, industrial and shoreland) and construction activities on water quality (Continued...).

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Explore the development of an erosion and stormwater management ordinance. (I)	All	2003-2007	PZ	Local	\$2,000
Promote BMPs for development (i.e. shoreline stabilization, lakescaping, erosion control, etc.) and direct landowners to Federal and State programs that provide financial assistance to implement such practices. (I)	All	2003-2012	DNR, NRCS, PZ, SWCD, UMES, WMLOs	Federal, State, Local	\$2,000
In conjunction with Lake Associations, develop programs to discourage the use of phosphorus fertilizer around lakes by residential lakeshore property owners and promote use of water quality BMPs for lakeshore properties. (I)	All	2003-2012	DNR, PZ, SWCD, UMES	Local	\$20,000
Encourage the use of stormwater retention basins, rather than natural wetlands, for runoff retention and water quality treatment. (I)	All	2003-2012	MPCA, PZ	State, Local	\$10,000
Explore changes to the Subdivision Ordinance requiring more stringent stormwater management, including the use of infiltration basins, swales, waterways, constructed wetlands, etc.) (I)	All	2003	PZ	Local	\$1,000
Require adequate erosion and sediment control measures be implemented on subdivisions and replats. (I)	All	2003-2012	PZ	Local	\$40,000
The County shall continue to review and provide comments to MPCA on proposed discharge permits, when requested. (N)	All	2003-2012	PZ, SWCD	Local	\$1,000
Utilize technology to assess the cumulative effect of agriculture, developments and gravel pits on water quality. (N)	All	2003-2012	DNR, PZ, NRCS, SWCD	Federal, State, Local	\$5,000

GOAL 5: MAINTAIN OR IMPROVE GROUNDWATER QUALITY AND QUANTITY.

Objective 1: Provide information and assistance to the public to ensure adequate potable water supplies.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Work with Kandiyoji, McLeod Meeker and Renville counties to request the DNR conduct a regional hydrogeologic atlas for the region. (U)	All	2003-2007	PZ	Local	\$1,500
Work with the DNR to continue the observation well monitoring program. (I)	All	2003-2012	DNR, SWCD	State, Local	\$2,000
Rely upon the DNR, through their water use permit program, to evaluate impacts of groundwater withdrawal from new and existing water users. (I)	All	2003-2012	DNR	State	NA
Work with local and State agencies to provide water conservation and other water-related educational materials to the public. (I)	All	2003-2012	DNR, PZ, SWCD, UMES	State, Local	\$10,000
Encourage the DNR and municipalities to work together to resolve water shortage issues. (I)	All	2003-2012	County	State	NA

Objective 2: Continue current efforts to monitor and study groundwater quality.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Meeker County Public Health will serve as the coordinating agency of groundwater quality data collected in the County, with emphasis on nitrate and fecal coliform bacteria contamination. (I)	All	2003-2012	PH	Local	\$20,000
Promote Federal, State and local well and groundwater quality programs and evaluation of baseline data. (I)	All	2003-2012	MDA, MDH, MPCA, PZ, SWCD	Local	\$15,000

Objective 3: Minimize the impacts of agricultural, industrial and residential chemicals on groundwater through education and collection programs.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Continue programs to educate landowners, rural and urban, on the proper application and disposal of agricultural and lawn chemicals and fertilizer based on established standards, including BMPs and integrated pest management. (I)	All	2003-2012	MDA, PZ, SWCD, UMES	State, Local	\$20,000
Promote and assist the MDA in waste pesticide collection efforts. (I)	All	2003-2012	PZ, UMES	State, Local	\$10,000
Continue to support EPA and MPCA regulations regarding Class V injection wells. (N)	All	2003-2012	PZ	Federal, State, Local	\$500

Objective 4: Provide education and assistance to landowners to ensure that abandoned and active wells are not a future source of groundwater contamination.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Explore developing an inventory of abandoned wells within the County. (I)	All	2003-2012	PZ	Local	\$1,000
Provide a public education program on the need to locate and seal abandoned wells. (I)	All	2003-2004	MDH, PH, PZ	State, Local	\$10,000
Provide a County contact person to answer questions and keep updated on related rules and regulations concerning active and abandoned wells. (I)	All	2003-2012	PZ	Local	\$10,000

Objective 4: Provide education and assistance to landowners to ensure that abandoned and active wells are not a future source of groundwater contamination (Continued...).

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Develop a County cost share program for the sealing of abandoned wells. (I)	All	2003-2005	PZ	Local	\$2,000/yr.
Accept the State Well Code and support continued enforcement by the State. (N)	All	2003-2012	PZ	NA	NA
Explore the development of an ordinance requiring the disclosure and sealing of abandoned wells upon property transfer and demolition of housing units. (N)	All	2003-2007	PZ	Local	\$4,000

Objective 5: Work with landowners and Federal and State agencies to prevent groundwater contamination from leaking above ground and underground storage tanks.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Assist the MPCA when they inspect and monitor storage tanks that may be leaking into surface or groundwater. (U)	All	2003-2012	PZ	State, Local	\$5,000
Encourage proper abandonment of storage tanks, direct landowners to proper agencies for removal and cleanup. (I)	All	2003-2012	MPCA, PZ	Federal, State, Local	\$5,000
Request the MPCA inventory and map above ground and underground storage tanks on the GIS database. (N)	All	2003	PZ	Local	\$100

Objective 6: Assist the MDH in implementing the Wellhead Protection Program.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Assist the MDH in wellhead protection technical committees, contaminant source inventories, data collection efforts and creation of land use and property ownership maps. (I)	All	2003-2007	PZ, SWCD, WMLOs	Local	\$15,000
Promote ISTS upgrades, abandoned well sealing and BMPs in wellhead protection areas. (I)	All	2003-2007	PZ, SWCD, NRCS, WMLOs	Federal, State, Local	\$10,000
Consider land use regulations receptive to the needs of wellhead protection areas. (I)	All	2003-2007	PZ	Local	\$10,000

GOAL 6: ENSURE PROPER HANDLING AND DISPOSAL OF SOLID WASTE.

Objective 1: To improve public awareness pertaining to identification and disposal of hazardous waste.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Continue a program to educate people on identification and proper disposal of hazardous material, including locations and opportunities to do so. (I)	All	2003-2012	MPCA, SW	State, Local	\$20,000
Encourage residents to utilize the Willmar Regional Household Hazardous Waste facility, which is a year-round facility offering household hazardous waste disposal and paint exchange. (I)	All	2003-2012	SW, MPCA	State, Local	\$40,000
Continue one-day household hazardous waste collections within the County. (I)	All	2003-2012	SW	State, Local	\$120,000

Objective 2: Ensure proper disposal of solid waste through existing regulations and programs.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Adopt the County Solid Waste Management Plan by reference and ensure compatibility with Water Plan goals and objectives. (I)	All	2003-2012	PZ, SW	Local	NA
Continue solid waste recycling efforts through a cooperative effort between the County, townships, cities and waste haulers/recyclers. (I)	All	2003-2012	SW	State, Local	\$400,000
Promote and educate the public concerning solid waste reduction and reuse, as well as yard waste composting. (I)	All	2003-2012	MPCA, SW, UMES	State, Local	\$50,000
Continue to identify and report old abandoned community dumpsites, landfills and demolition sites. Findings should be reported to the County Solid Waste Officer and MPCA for pollution potential evaluation. (I)	All	2003-2012	MPCA, SW	Local, State	\$2,500
Explore the passage of a resolution regarding the regulation of burning and burying of solid waste Countywide, in accordance with Minnesota Chapter 17.135. (I)	All	2003-2012	County	Local	\$500
Investigate and remediate illegal dumping activities. (I)	All	2003-2012	MPCA, PZ, SW	State, Local	\$50,000
Provide information to industries and businesses as to where they can get technical assistance for waste. (I)	All	2003-2012	MPCA, SW	State, Local	\$5,000
Seek funding to develop and implement remediation plans for improperly closed landfills or dumps. (N)	All	2003-2012	MPCA, SW	Local	\$3,000

GOAL 7: MANAGE FISH AND WILDLIFE, WHILE PROTECTING WATER RESOURCES.

Objective 1: Promote education and technical assistance to landowners to manage wildlife and preserve and enhance valuable habitat areas.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Work with the DNR to develop land use regulations that are receptive to protecting rare features and species. (I)	All	2003-2007	DNR, PZ	State, Local	\$2,000
Request Federal, State and local educational assistance concerning the benefits of wildlife management. (I)	All	2003-2012	DNR, PZ, SWCD, USFWS	Federal, State, Local	\$2,000
The County may provide money to Lake Associations for the maintenance or operation of lake aeration systems for protection of fisheries. (I)	All	2003-2012	County	Local	\$25,000
Encourage landowners to seek assistance from Federal, State and local agencies and groups on programs that enhance, restore or protect fish and wildlife habitat. (I)	All	2003-2012	DNR, NRCS, PZ, SWCD, USFWS, WMLOs	Federal, State, Local	\$10,000
Support the DNR in completing the Meeker County Biological Survey.	All	2003	PZ	State	NA
Support and provide technical assistance, as available, to conservation groups involved in the LCMR Corridors Habitat Project, which aims to protect and develop wildlife habitat within designated corridors, including the Big Woods North Corridor. (I)	CR, NFCR, SR	2003-2007	DNR, SWCD, USFWS	Federal, State, Local	\$5,000
Encourage the development of an integrated roadside management program. (N)	All	2003-2012	HD	Local	\$100

GOAL 8: PROVIDE WATER-BASED RECREATIONAL OPPORTUNITIES, WHILE PROTECTING WATER RESOURCES.

Objective 1: Expand and improve recreational resources within the County.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Work with Federal, State and local agencies and groups to pursue grants and other available funding for the acquisition and maintenance of water-based recreation areas. (I)	All	2003-2012	DNR, ES, PD	Federal, State, Local	\$5,000
Support the County and Minnesota State Park systems in meeting the recreational needs of the County and the region. (I)	All	2003-2012	County	Local	\$1,100,000
Identify locations that have potential for initiating or improving water-based recreation, and pursue, as available, grants and other aid to fund such projects. (N)	All	2003-2012	County, DNR	State, Local	\$10,000
Work with Federal, State and local agencies and groups to acquire water-based recreation areas. (N)	All	2003-2012	County	Federal, State, Local	\$10,000
The County should consult the Statewide Comprehensive Outdoor Recreation Plan (SCORP) in identifying issues and strategies that will guide water-based recreation. (N)	All	2003-2012	County	Local	\$100

GOAL 9: KEEP THE PUBLIC INFORMED OF WATER RESOURCE MANAGEMENT ISSUES.

Objective 1: Actively research and address important existing or potential water resource management issues.

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
Prepare a fact sheet or pamphlet listing the general goals of the Water Plan. (I)	All	2003	PZ	Local	\$500

Objective 1: Actively research and address important existing or potential water resource management issues (Continued...).

Action U=Urgent, I=Important, N=Noteworthy	Applicable Watershed(s)	Timeline	Coordinating Agencies (Lead)	Funding Source(s)	10-yr. Local Cost (approx.)
The County Water Planning Committee shall annually review the implementation of the Water Plan. (I)	All	2003-2012	PZ	Local	\$10,000
Provide information to landowners and private interest groups on Federal, State, local and private sources of funding assistance for water resource management. (I)	All	2003-2012	DNR, NRCS, PZ, SWCD, UMES	Federal, State, Local	\$30,000
Utilize the media to inform the public of County activities, hearings, findings, programs and projects, relating to water resource management and the Water Plan. (I)	All	2003-2012	PZ	Local	\$5,000
The Water Planning Coordinator shall be available to provide assistance in answering or referring questions concerning Plan implementation and County actions. (I)	All	2003-2012	PZ	State, Local	\$10,000
Hold public meetings and/or attend local meetings to keep the general public informed of current activities and progress. (I)	All	2003-2012	PZ	Local	\$10,000
Meeker County shall work with all watershed management-like organizations in developing and implementing water management activities, which are consistent with the Water Plan. (I)	All	2003-2012	PZ	State, Local	\$10,000
Encourage public informational efforts regarding water resource management by Federal, State and local agencies and groups. (I)	All	2003-2012	PZ	Federal, State, Local	\$2,000
Coordinate the Water Plan with the County's Comprehensive Plan and Zoning Ordinance. (N)	All	2003-2012	PZ	Local	\$1,000
Support the Minnesota Water Plan 2000. (N)	All	2003-2012	County	Local	\$100

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CHAPTER SIX: PLAN ADMINISTRATION

Chapter six contains information on plan administration, including plan coordination, implementation, schedule, role of the County in implementation, role of other agencies in implementation, recommended changes to State programs, intergovernmental conflicts/resolution process, major plan amendment procedure, minor plan amendment procedure and general information.

Plan Coordination

Managing Meeker County's water resources is a complicated task, involving many local, State and Federal agencies, as well as private citizens and special interest groups. For any water planning activity to be successful, a well-coordinated effort is needed. Meeker County is committed to working with each of these entities to ensure proper management of its water resources.

Implementation

Meeker County will ensure coordination and implementation of its Comprehensive Local Water Plan through its established Water Plan Taskforce. The taskforce will meet, at least quarterly, to review progress, identify emerging problems, opportunities and issues and continue to direct the implementation of the plan. The taskforce will be supported by the County Board appointed Water Plan Coordinator. The coordinator shall administer the implementation of this plan, coordinate the taskforce activities, write grant proposals, prepare annual work plans and reports and other activities as specified by the Meeker County Board of Commissioners.

Schedule

Coordination of the Comprehensive Local Water Plan activities will commence with the County Board adoption of the plan. These activities will be conducted throughout the planning period identified as January 1, 2003, through December 31, 2012. A more focused five-year plan, with more specific goals, objectives and action steps, will be implemented during the period of January 1, 2003, through December 31, 2007.

Role of the County in Implementation

The County recognizes the importance of comprehensive local water planning and the key role the County, township and city government must play in water planning decisions that impact water resources. The Water Plan's goals, objectives and actions are a reflection of the water related concerns in the County. Implementation will be based on current needs, funding and availability of staff. Consideration will be given to changes in State initiatives and regulations. The annual work plan will be a detailed strategy of measurable criteria for actions to be carried out. The County realizes that completion of all goals and objectives requires staff and funds

beyond the County budget. It is also understood that State funding cannot provide the funding for all goals and objectives for all counties. The County, through various sources, will pursue outside funding opportunities as they become available.

Role of Other Agencies in Implementation

Throughout the Comprehensive Local Water Plan, County departments, local government units, special interest groups, and State and Federal agencies that are involved are listed. It is hoped that the valuable cooperation that has been established over the past years will continue.

Recommended Changes to State Programs

In order to implement the goals and objectives set forth in the Meeker County Comprehensive Local Water Plan, continued cooperation between the County and various State agencies is necessary. In an effort to increase coordination in this effort, the County makes the following recommended changes to State agency programs:

- A. Counties should continue to be notified of State agency program changes and the availability of funding;
- B. Data collected by State agencies should be readily shared with the County and other agencies to avoid duplicative efforts;
- C. State agencies should continue to provide local and/or regional staff to assist local officials with agency programs;
- D. Fees collected at the County level should be allowed to remain within the County to administer and implement water-related programs;
- E. An annual listing of State agency staff that are assigned to water management planning should be created to facilitate increased coordination between local officials and agency staff; and
- F. State agencies should provide greater flexibility to counties in setting annual work plan priorities. Priorities should be based upon current needs, funding, availability of staff and changes in State initiatives and regulations.

Intergovernmental Conflicts/Resolution Process

In the development of this plan, there were no intergovernmental conflicts that arose. In the event of an intergovernmental conflict, the Meeker County Board of Commissioners shall request the Meeker County Water Plan Taskforce to intervene and informally negotiate resolution of the conflict. If the taskforce does not resolve the conflict, the County shall petition the Board of Water and Soil Resources (BWSR) for a contested case hearing.

Major Plan Amendment Procedure

The Meeker County Comprehensive Local Water Plan is intended to extend through the year 2012. The County may prepare proposed amendments to the plan prior to 2012; however, the plan will be updated, including any proposed plan amendments, before the end of 2012.

The following procedures will be used by Meeker County to deal with proposed major amendments to the County Comprehensive Local Water Plan:

- A. When issues are brought to the attention of the County with regard to the need for amendments to its adopted County Comprehensive Local Water Plan, the County will refer that person, group, local unit of government, or agency to the County's Water Plan Taskforce.
- B. The Meeker County Water Plan Taskforce will review the issue and may, if necessary, undertake studies or investigations to gather information relating to the issue. After reviewing the issue, the County Water Plan Taskforce will determine whether the County Comprehensive Local Water Plan should be amended.
- C. If the County Water Plan Taskforce determines that the County Comprehensive Local Water Plan should be amended, it will make recommendations to the County Board. The County Board shall approve or disapprove the proposed amendment.

After development, but before final adoption by the County Board, a proposed amendment to the County Comprehensive Local Water Plan must be submitted for local review and comment in the following manner. The County must submit the proposed plan amendment to all local units of government wholly or partly within the County, the applicable regional development commission (if any), each contiguous county and watershed management organization and other counties or watershed management organizations within the same watershed unit and groundwater system that may be affected by the proposed plan amendment.

A local unit of government must review the proposed amendment and its existing water and land-related land resources plan or official controls and in its comments describe in a general way, possible amendments to its existing plans or official control, and an estimate of the fiscal or policy effects that would be associated with those amendments, to bring them into conformance with the proposed plan amendment. A county or watershed management organization within the same watershed unit or groundwater system must review the proposed plan amendment and describe in its comments possible conflicts with its existing or proposed comprehensive water plan and suggest measures to resolve the conflicts. The regional development commission must review the proposed amendment under Section 462.391, Subdivision 1.

Comments from local review must be submitted to the County Board within 60 days after receiving a proposed plan amendment for comment, unless the County Board determines that good cause exists for an extension of this period and grants an extension. The County Board must conduct a public hearing on the proposed plan amendment pursuant to Section 375.51 after the 60-day period for local review and comment is completed, but before it is submitted to the State.

After conducting the public hearing, but before final adoption, the County Board must submit the proposed plan amendment, all written comments, a record of the public hearing and a summary of changes incorporated in the proposed plan amendment as a result of the review process to the BWSR for review. The BWSR must complete the review within 90 days after receiving the proposed County Comprehensive Local Water Plan amendment and support document. The BWSR must consult with the Departments of Agriculture, Health, Natural Resources, Pollution Control, Planning Agency, Environmental Quality and other appropriate State agencies during the review.

The BWSR may disapprove a proposed amendment if it determined the amendment is not consistent with State law or the principles of sound hydrologic management, effective environmental protection and efficient management. If the amendment is disapproved, the BWSR must provide a written statement for its reasons for disapproval. The disapproved County Comprehensive Local Water Plan amendment must be revised by the County Board and resubmitted for approval by the BWSR within 120 days after receiving notice of disapproval, unless the BWSR extends the period for good cause. The decision of the BWSR to disapprove the amendment may be appealed by the county to District Court.

A County Board must adopt and begin implementation of its amended County Comprehensive Local Water Plan within 120 days after receiving notice of approval of the amendment from the BWSR.

Minor Plan Amendment Procedure

If a revision/amendment to the Meeker County Comprehensive Local Water Plan is considered to be minor in nature, the following revision process will be followed:

- A. The Meeker County Board of Commissioners will receive a recommendation from the Meeker County Water Plan Taskforce for an amendment to the Water Plan.
- B. At the Board of Commissioners' meeting, where the amendment is introduced, the County will hold a public hearing to explain the amendments and publish a legal notice of the hearing at least ten (10) days before the date of the hearing.
- C. The County will send copies of the amendments to the BWSR Board Conservationist assigned to Meeker County for review and comment.

General Information

All amendments adopted by the County will be printed in the form of replacement pages for the Comprehensive Local Water Plan. Each page will show deleted text as stricken and new text as underlines on draft amendments, as needed, and include the effective date of the amendment. The County will maintain a distribution list of agencies and individuals who have received a copy of the Comprehensive Local Water Plan and the County shall distribute copies of the amendment(s) within thirty days of adoption.

Appendix A

DNR Water Appropriation Permits

WATER APPROPRIATION PERMIT INDEX KEY

Minnesota DNR Water Appropriation permits are required for withdrawals greater than 10,000 gallons per day or one million gallons per year.

Use Codes

WATERWORKS

- 211. Municipal
- 212. Private waterworks
(trailer courts, small housing units)
- 213. Commercial and Institutional
(business, industry, hospital)
- 214. Cooperative waterworks
- 215. Fire protection
- 216. Campgrounds, waysides, highway rest areas
- 217. Rural Water Districts
- 219. Waterworks

POWER GENERATION

- 221. Hydro power
- 222. Steam power cooling-once through
- 223. Steam power cooling-wet tower
- 224. Steam power cooling-ponds
- 225. Steam power-other than cooling
- 226. Nuclear power plant
- 229. Power generation

AIR CONDITIONING

- 231. Commercial building A/C
- 232. Institutions (school, hospital)
- 233. Heat pumps
- 234. Coolant pumps
- 235. District heating/cooling
- 239. Once-through heating or A/C
- 238. Air conditioning

INDUSTRIAL

- 241. Agricultural processing (food & livestock)
- 242. Pulp and paper processing
- 243. Mine processing (not sand & gravel washing)
- 244. Sand and gravel washing
- 245. Sewage treatment
- 246. Petroleum-chemical processing, ethanol
- 247. Metal processing
- 248. Non-metallic processing (rubber, plastic, glass)
- 249. Industrial processing

TEMPORARY (12 months or less)

- 251. Construction (non-dewatering)
- 252. Construction (dewatering)
- 253. Pipeline & tank testing
- 254. Landscape watering
- 255. Pollution containment
- 256. Water level maintenance
- 257. Livestock waste treatment
- 258. Temporary ag irrigation
- 259. Temporary

WATER LEVEL MAINTENANCE

- 261. Basin (lake) level
- 262. Mine dewatering
- 263. Quarry dewatering
- 264. Sand/gravel pit dewatering
- 265. Tile drainage and pumped sumps
- 266. Dewatering
- 269. Water level maintenance

SPECIAL CATEGORIES

- 271. Pollution containment
- 272. Aquaculture (hatcheries, fisheries)
- 273. Snow making
- 274. Peat fire control
- 275. Livestock watering
- 276. Pipeline and tank testing
- 279. Special Categories

NON-CROP IRRIGATION

- 281. Golf course
- 282. Cemetery
- 283. Landscaping/athletic fields
- 284. Sod farm
- 285. Nursery
- 286. Orchard
- 289. Non-crop irrigation

MAJOR CROP IRRIGATION

- 290. Major crop irrigation
- 296. Wild rice irrigation

* indicates Multi-Use Permits

Resource Codes	Status Codes
1 - Ground Water	1 - Active
2 - Lake	2 - Standby
3 - Stream/River	3 - Abandoned
4 - Ditch	4 - Terminated
5 - Dug Pit/Holding Pond	
6 - Quarry/Mine/Gravel Pit	
7 - Wetland	
	Fee Codes
	E - Exempt from Fees
	N - Non-Profit

County Codes

1 Aitkin	30 Isanti	59 Pipestone
2 Anoka	31 Itasca	60 Polk
3 Becker	32 Jackson	61 Pope
4 Beltrami	33 Kanabec	62 Ramsey
5 Benton	34 Kandiyohi	63 Red Lake
6 Big Stone	35 Kittson	64 Redwood
7 Blue Earth	36 Koochiching	65 Renville
8 Brown	37 Lac Qui Parle	66 Rice
9 Carlton	38 Lake	67 Rock
10 Carver	39 Lake of the Woods	68 Roseau
11 Cass	40 Le Sueur	69 St. Louis
12 Chippewa	41 Lincoln	70 Scott
13 Chisago	42 Lyon	71 Sherburne
14 Clay	43 McLeod	72 Sibley
15 Clearwater	44 Mahnomon	73 Stearns
16 Cook	45 Marshall	74 Steele
17 Cottonwood	46 Martin	75 Stevens
18 Crow Wing	47 Meeker	76 Swift
19 Dakota	48 Mille Lacs	77 Todd
20 Dodge	49 Morrison	78 Traverse
21 Douglas	50 Mower	79 Wabasha
22 Faribault	51 Murray	80 Wadena
23 Fillmore	52 Nicollet	81 Waseca
24 Freeborn	53 Nobles	82 Washington
25 Goodhue	54 Norman	83 Watonwan
26 Grant	55 Olmsted	84 Wilkin
27 Hennepin	56 Otter Tail	85 Winona
28 Houston	57 Pennington	86 Wright
29 Hubbard	58 Pine	87 Yellow Medicine

All Active Permits - By County & Location

DNR Water Appropriation Permits

Permit #	Inst	Permittee	Use	CO Twp	Rng	Sec	QOOQ	shed	Water Well	Resource	Code	Name	----- Permitted -----					---Reported Pumping---				
													Acres	GPM	MG/Y	1996	1997	1998	1999	2000	Stat	1996
864033 - 2		COSMOS, CITY OF	211 47 117	32	15	CCB	19	241458	1	QBAA			680	30.0	8.0	6.7	6.4	7.2	4.4	1		
864033 - 1		COSMOS, CITY OF	211 47 117	32	15	CCC	19	241458	1	QBAA			680	30.0	0.0	0.0	0.0	0.0	0.0	1		
864033 - 3		COSMOS, CITY OF	211 47 117	32	16	DBB	19	222103	1	QBAA			680	30.0	19.3	19.6	16.7	15.3	21.3	1		
904193 - 1		MN DEPARTMENT OF NATURAL RESOURC	272 47 118	30	4	DDD	18			LAKE MANUJELLA			300	5.2						1E		
774185 - 1		SMITH, DONALD	290 47 118	30	8	CCBB	19	136809	1	QWTAQWTA			2,000	10.0	4.6	5.1	6.5	4.7	2.9	1		
784467 - 1		PETERSON, STANLEY	265 47 118	30	35	AAC	18						600	3.0						1		
964423 - 1		DUINICK BROTHERS INC	264 47 119	29	4	AAC	18						600	3.6						1		
994026 - 1		BAUERLY BROTHERS INC	244 47 119	29	8	CCD	18	610551	1	QBAA			300	3.6	0.3	1.3	6.3	11.0	2			
754251 - 1		DASSEL, CITY OF	211 47 119	29	27	BAA	18	240746	1	QBAA			735	60.0	49.7	51.1	39.5	17.5	1			
754251 - 2		DASSEL, CITY OF	211 47 119	29	27	CAD	18	211601	1	QBAA			735	60.0	49.7	51.1	39.5	17.5	1			
754251 - 3		DASSEL, CITY OF	211 47 119	29	34	BAA	18	583076	1	QBAA			735	60.0	24.4	12.2	16.2	14.2	1			
974003 - 1		SCHREIBER, DAVID	290 47 119	30	7	ACD	18	184739	1	QBAA			150	700	17.9	2.9	7.6	15.2	1			
924216 - 1		DOBBS, JEFFREY	290 47 119	30	8	BAD	18	478681	1				140	950	11.5	5.4	9.2	5.4	1			
884102 - 1		SPARBOE SUMMIT FARMS INC	241 47 119	30	16	CCD	18	438818	1				310	36.0	14.0	11.5	5.4	9.2	1			
884102 - 2		SPARBOE SUMMIT FARMS INC	241 47 119	30	16	CCD	18	461358	1				310	36.0	4.1	5.3	4.6	5.5	1			
884102 - 3		SPARBOE SUMMIT FARMS INC	241 47 119	30	20	CAA	18	603646	1	QBAA			310	36.0	4.1	5.3	4.6	5.5	1			
774675 - 1		SCHREIBER, DAVID	290 47 119	30	20	CDA	18	233083	1	QWTAQWTA			160	800	26.0	13.0	13.0	19.5	1			
774194 - 1		QUINN JR, A C	290 47 119	30	20	D	18	136628	1	QBAAQBAA			160	900	52.1	49.0	49.9	50.0	1			
774194 - 2		QUINN JR, A C	290 47 119	30	20	D	18	136610	1	QBAAQBAA			160	900	52.1	49.0	49.9	50.0	1			
774429 - 3		HUHN, ROGER	290 47 119	30	21	CCDC	18	132229	1	QBAAQBAA			132	900	43.0		2.5		1			
774429 - 2		HUHN, ROGER	290 47 119	30	21	CCBD	18	132228	1	QBAAQBAA			132	900	43.0					1		
774676 - 1		SCHREIBER, DENNIS J	290 47 119	30	21	DCA	18	222099	1	QBAAQBAA			120	800	20.7	2.1	10.3	13.8	19.0	1		
894226 - 1		SCHREIBER, DENNIS J	290 47 119	30	21	CCC	18	453394	1				80	500	20.7	2.1	10.3	13.8	11.5	1		
774429 - 1		HUHN, ROGER	290 47 119	30	21	DCCB	18	132227	1	QBAAQBAA			132	900	26.8	15.2	21.4	11.2	15.0	1		
854175 - 1		DARWIN, CITY OF	211 47 119	30	23	CCB	18	222101	1	QBAAQBAA			145	13.8	5.9	5.3	5.1	5.3	5.2	1		
854175 - 2		DARWIN, CITY OF	211 47 119	30	23	CCB	18	136850	1	QBAAQBAA			145	13.8	5.7	6.5	4.9	5.2	5.3	1		
914026 - 1		CROW RIVER FARMS & W GOEMER	290 47 119	30	27	CCAA	18	164584	1	QWTAQWTA			20	350	4.0					1		
764404 - 1		CROW RIVER FARMS & W GOEMER	290 47 119	30	27	CDB	18	451802	1	QWTAQWTA			130	800	33.2	3.4	14.6	27.6	34.5	1		
764404 - 2		CROW RIVER FARMS & W GOEMER	290 47 119	30	27	CDB	18	164585	1	QWTAQWTA			130	800	44.0	3.4	14.6	27.6	34.5	1		
774071 - 1		HUHN, ROGER	290 47 119	30	28	BBDB	18	132221	1	QBAAQBAA			132	800	13.6	5.3	8.7	6.1	6.8	1		
774071 - 2		HUHN, ROGER	290 47 119	30	28	BBDB	18	132222	1	QBAAQBAA			132	800	6.8	2.6	4.3	3.0	3.4	1		
774071 - 3		HUHN, ROGER	290 47 119	30	28	BBDB	18	132223	1	QBAAQBAA			132	800	6.8	2.6	4.3	3.0	3.4	1		
764421 - 1		CROW RIVER FARMS	290 47 119	30	28	DCC	18	136823	1	QWTAQWTA			80	700	4.6	0.8	8.0	24.1	25.9	1		
974136 - 1		RETHLAKE, BRUCE	290 47 119	30	29	ADB	18	541892	1				130	800	37.0	8.1	17.6	25.0	1			
754229 - 1		WIGEN, MARLOW	290 47 119	30	30	CCD	18			ROUND			60	700	12.0				1			
844006 - 1		HUHN, ROGER	290 47 119	30	32	D	18	192995	1	QBAA			500	30.0	26.4	12.2	17.9	17.6	15.2	1		
690169 - 10		LITCHFIELD, CITY OF	211 47 119	31	1	BCC	18	240083	1	QBAAQBAA			2,025	425.0	41.9	45.6	49.9	51.8	41.8	1		
690169 - 15		LITCHFIELD, CITY OF	211 47 119	31	1	BCC	18	492122	1				2,025	425.0	121.4	130.2	139.8	132.4	103.5	1		
884092 - 1		OLSON FARMS, EARL B	213 47 119	31	6	BAD	18	433238	1				75	18.0	6.4	6.4	5.4	5.4	1			
884092 - 2		OLSON FARMS, EARL B	213 47 119	31	6	BDA	18	433239	1				75	18.0						1		
884092 - 3		OLSON FARMS, EARL B	213 47 119	31	6	BDD	18	433240	1				75	18.0						1		
690169 - 8		LITCHFIELD, CITY OF	211 47 119	31	11	AAB	18	211623	1	QBAAQBAA			2,025	425.0	94.9	89.9	82.5	85.9	73.1	1		
690169 - 14		LITCHFIELD, CITY OF	211 47 119	31	11	ABA	18	190049	1	QBAAQBAA			2,025	425.0	96.0	99.8	116.4	126.0	111.8	1		
864071 - 5		FIRST DISTRICT ASSOC	241 47 119	31	11	DCD	18	211628	1	QBAA			300	90.0	5.1	36.0	30.4	25.8	39.0	1		
864071 - 6		FIRST DISTRICT ASSOC	241 47 119	31	11	DCD	18	236443	1	QBAA			300	90.0	44.2	2.2	4.4	14.1	14.1	1		
690169 - 12		LITCHFIELD, CITY OF	211 47 119	31	12	CDA	18	133052	1	QBAAQBAA			2,025	425.0	4.2	5.7	10.3	6.8	11.4	1		
764154 - 1		LITCHFIELD GOLF COURSE	281 47 119	31	14	BBB	18						40	200	16.0					1		
764154 - 2		LITCHFIELD GOLF COURSE	281 47 119	31	14	BBB	18						40	200	16.0					1		
764154 - 3		LITCHFIELD GOLF COURSE	281 47 119	31	14	BBB	18						40	200	16.0					1		
764154 - 4		LITCHFIELD GOLF COURSE	281 47 119	31	14	BBB	18						40	200	16.0					1		

DNR Water Appropriation Permits

8/02/2001

Permit #	Inst	Meeker County	Permittee	Use				Water shed	Well	Resource	Code	Name	----- Permitted -----				--- Reported Pumping ---										
				CO	Twp	Rng	Sec						Acres	GPM	MGY	1996	1997	1998	1999	2000	Stat						
690078 - 1			LITCHFIELD GOLF COURSE	281	47	119	31	14	CBD	18	2	LAKE RIPLEY	40	200	12.0												
794148 - 1			BARTLETT, LORRAINE	290	47	119	31	20	CA	18	132274	1	QBAA	100	700	30.0	16.3	1.0	10.2	5.9	16.2	1					
774157 - 1			FLOWERS, GARY	290	47	119	31	21	ABD	18	105565	1	QBAA	130	700	36.0	10.9	3.4	7.1	13.0	14.5	1					
754321 - 1			GROVE CITY, CITY OF	211	47	119	32	3	ABD	18	240099	1		300	300	35.0	14.7	16.0	17.1	16.1	16.6	1					
864151 - 1			OLSON FARMS INC, EARL B	241	47	119	32	7	AAA	18	413869	1		150	150	18.0	12.9	12.9	10.5	10.5	10.5	1					
864151 - 2			OLSON FARMS INC, EARL B	241	47	119	32	7	AAA	18	413868	1		150	150	18.0							1				
864151 - 3			OLSON FARMS INC, EARL B	241	47	119	32	7	AAA	18	413896	1		150	150	18.0	12.9	12.9	10.5	10.5	10.5	1					
884055 - 1			OLSON FARMS, EARL B	213	47	119	32	7	BCA	18	433218	1		50	50	12.0							1				
884055 - 2			OLSON FARMS, EARL B	213	47	119	32	7	BCA	18	433219	1		50	50	12.0							1				
904194 - 1			MN DEPARTMENT OF NATURAL RESOURC	272	47	120	29	1	CDD	18		2	LAKE FRANCIS	2,000	8.5	80.0	18.6	10.8	41.7	46.2	43.0	1E					
904004 - 1			FALLON, VIRGIL	290	47	120	29	30	CAA	18	456012	1		274	1,000	80.0											
944176 - 1			BREMIX CONCRETE CO	244	47	120	29	34	CCA	18	524189	1	QBAA	600	600	35.0											
774029 - 1			HESS, ROBERT D	290	47	120	30	10	BCD	18		5	QWTAQWTA	41	507	12.0											
994158 - 1			JOHNSON, HARLAN F	290	47	120	30	13	ABD	18	588900	1		67	400	19.0	6.2	22.2	3.4	8.1	11.4	1					
620013 - 1			STALL, LARRY D	290	47	120	30	16	CAC	18	249977	1		135	500	41.8											
814201 - 1			JOHNSON, HARLAN F	290	47	120	30	21	BAB	18	178418	1	QWTAQWTA	67	350	27.0	6.2	22.2	3.4	36.6	65.1	1					
814201 - 1			COX, ROBERT	290	47	120	31	2	ACDD	18	131716	1	QBAAQBAA	120	800	39.1	22.7	3.5	10.3	12.1	14.3	1					
894006 - 1			CHRIS FARMS INC	290	47	120	31	10	DCD	18	132461	1	QBAA	75	500	8.3											
774036 - 1			EUERLE, VAUGHN W & JOAN A	290	47	120	31	12	DCB	18	229588	1	QWTAQWTA	100	700	33.0											
701186 - 1			EUERLE, VAUGHN	290	47	120	31	13	DDB	18	124207	1	3 CROW NORTH BR	40	300	3.0	17.9	6.7	10.2	20.6	19.0	1					
794286 - 1			DICK, JEROLD	290	47	120	31	19	BDBD	18		200	1,100	59.0	23.0	23.0	13.9	2.5	6.3	9.5	13.4	1					
774350 - 1			BRAATZ, JOHN	290	47	120	32	1	CBD	18		80	700	23.0	22.0	42.0	22.0	2.5	7.5	12.6	11.5	1					
814277 - 1			SMITH, KENT	290	47	120	32	2	ABC	18	178727	1	QBAAQBAA	115	525	24.0	6.0	9.1	5.8	5.8	5.8	5.8	1				
974179 - 1			OLSON FARMS, EARL B	275	47	120	32	3	AAD	18	574906	1		25	24.0	24.0	6.0	6.0	9.1	5.8	5.8	1					
974179 - 2			OLSON FARMS, EARL B	275	47	120	32	3	AAD	18	574907	1		25	24.0	24.0	6.0	6.0	9.1	5.8	5.8	1					
974179 - 3			OLSON FARMS, EARL B	275	47	120	32	3	AAD	18	574909	1		25	24.0	24.0	6.0	6.0	9.1	5.8	5.8	1					
974179 - 4			OLSON FARMS, EARL B	275	47	120	32	3	AAD	18	574910	1		25	24.0	24.0	6.0	6.0	9.1	5.8	5.8	1					
914218 - 1			BERGSTROM, RICHARD	290	47	120	32	5	ACA	18	476759	1		140	122	39.8	19.0	13.2	9.4	15.3	14.7	1					
914218 - 2			BERGSTROM, RICHARD	290	47	120	32	5	ACA	18	460096	1		140	122	39.8	19.0	13.2	9.4	15.3	14.7	1					
774665 - 1			BERGSTROM, RICHARD	290	47	120	32	6	ADA	18		135	1,300	40.0	16.2	40.0	16.2	6.9	10.9	9.8	11.5	1					
774665 - 2			BERGSTROM, RICHARD	290	47	120	32	6	ADA	18	460052	1	QWTAQWTA	135	1,300	40.0	16.2	6.9	10.9	9.8	11.5	1					
004155 - 1			BERGSTROM, RICHARD ALAN	290	47	120	32	6	BDA	18	645432	1		90	400	29.3	25.1	19.0	23.7	22.9	30.8	1					
824251 - 1			WESEMAN BROTHERS	290	47	120	32	6	CAA	18	184717	1	QBAAQBAA	125	600	49.0	26.8	20.1	19.7	22.3	34.7	1					
904134 - 1			JANS FARM	290	47	120	32	19	AAC	18	510552	1		208	700	60.0	6.4	6.4	3.6	3.6							
844243 - 1			BEHM, RALPH A	290	47	120	32	31	ACA	18		4	JUDICIAL DITCH 17	40	400	13.3											
774407 - 1			BEHM, RALPH A	290	47	120	32	31	CCBA	18	105569	1	QBAAQBAA	160	700	53.3	12.3	6.6	12.2	18.8	23.8	1					
754321 - 3			GROVE CITY, CITY OF	211	47	120	32	34	DDC	18	520945	1		300	300	35.0	15.3	15.1	16.7	14.1	18.1	1					
590555 - 3			EDEN VALLEY, CITY OF	211	47	121	30	5	CBD	16	211662	1	QBAA	400	400	28.1	22.7	18.0	13.3	13.9	19.1	1					
904010 - 1			BREMIX CONCRETE CO	244	47	121	30	31	ADA	18	457315	1		600	34.0	34.0	20.0	2.0	2.0	15.8	16.0	1					
570300 - 3			WATKINS, CITY OF	211	47	121	31	1	ADDD	16	211669	1	QBAAQBAA	480	45.0	45.0	13.0	13.0	10.0	13.2	11.0	1					
590555 - 2			EDEN VALLEY, CITY OF	211	47	121	31	1	CBD	16	211666	1	QWTA	480	28.1	28.1	40.5	16.3	15.9	16.3	15.5	1					
570300 - 4			WATKINS, CITY OF	211	47	121	31	1	DD	16	241351	1	QBAA	480	45.0	45.0	25.5	10.2	15.9	17.8	21.0	1					
720379 - 1			RUHLAND, GEORGE M	290	47	121	31	27	A	18		160	800	34.6	34.6	18.5	18.9	13.0	16.8	18.6	27.2	1					
014024 - 1			NISTLER, TONY	290	47	121	31	29	CAC	18	645362	1		65	340	18.5	20.3	10.1	12.3	12.0	12.7	1					
641235 - 1			LIECHTY ASSOCIATES	290	47	121	31	30	C	18		160	700	63.0	63.0	18.9	20.3	10.1	12.3	12.0	12.7	1					
774002 - 2			BERGSTROM, RICHARD	290	47	121	32	31	DACC	18	181960	1	QWTA	135	900	44.0	20.3	10.1	12.2	12.0	12.7	1					
774002 - 1			BERGSTROM, RICHARD	290	47	121	32	31	DBDD	18	124241	1	QWTAQWTA	135	900	44.0	20.3	10.1	12.2	12.0	12.7	1					
774002 - 3			BERGSTROM, RICHARD	290	47	121	32	31	DCAA	18	156629	1	QWTA	135	900	44.0	20.3	10.1	12.2	12.0	12.7	1					
764278 - 1			MARSHALL, FRANK F	290	47	121	32	33	ACC	18	124182	1	QWTAQWTA	105	500	35.0	17.7	1.3	8.2	14.0	22.2	1					
754124 - 1			NISTLER, TONY	290	47	121	32	33	DBAB	18	211683	1	QWTAQWTA	60	400	20.0	12.5	9.9	10.2	12.2	9.3	1					

DNR Water Appropriation Permits

All Active Permits - By County & Location

8/02/2001

Permit #	Inst	Meeker County	Permittee	Use	CO	Twp	Rng	Sec	QQQQ	shed	Water	Well	Resource	Code	Name	----- Permitted -----		-- Reported Pumping --						
																Acres	GPM	MG/Y	1996	1997	1998	1999	2000	Stat
640550 - 1			MARSHALL, FRANK F	290	47	121	32	33	DDA	18	211684	1	QWTA			120	600	40.0	31.5	12.8	20.6	23.0	32.2	1
874001 - 1			MARSHALL, FRANK F	290	47	121	32	34	BCB	18	140809	1	QWTAQWTA			80	500	23.0	17.1	10.1	8.4	16.9	21.2	1
640550 - 2			MARSHALL, FRANK F	290	47	121	32	34	CCB	18		1				120	600	40.0						1
774402 - 1			MILLER, RALPH	290	47	121	32	35	BCBA	18	124244	1	QWTAQWTA			160	500	53.5	17.9	8.6	7.3	10.0	2.1	1
824245 - 1			JENNIE-O FOODS INC	290	47	121	32	35	CCC	18	183092	1	QBAA			170	2,000	48.0			21.9	25.6	27.4	1
784161 - 1			BUER, MICHAEL R	290	47	121	32	36	ABB	18	140805	1	QWTA			100	600	33.0	17.3		8.0	10.2	10.4	1
711386 - 1			MILLER, RALPH	290	47	121	32	36	B	18		3	CROW MIDDLE BR			80	600	13.3						1
691137 - 1			LANGMO, JAMES M	290	47	121	32	36	CBBB	18	211686	1	QWTAQWTA			135	800	39.0	23.7	7.7	12.4	15.5	14.5	1
774399 - 1			BERENS, RICHARD	290	47	121	32	36	DCD	18	130987	1	QBAAQBAA			120	1,000	40.0	26.0	9.7	21.1	16.2	23.0	1

Appendix B

DNR Classified Lakes

LAKE NAME (DNR ID NUMBER)	SLC	OHW ELEV	DATUM	DATE	HKWL / DATE	# Rdgs	Period of Record	Highest Recorded	Lowest Recorded	Recorded Water Levels	Range
MEEKER COUNTY Minnesota (47-0140 P)											
Mud (47-0031 P)	NE	1150.0	1929	04/10/81	1149.4 05/27/71						
Mud (47-0059 P)	NOTSL	1022.8	1929	12/14/84	1021.3	1	12/10/84-12/10/84	1020.92	12/10/84	1020.92	12/10/84
Pipe (47-0110 P)	NE	1089.7	1929	04/16/92	1090.3 04/13/92	4	6/24/75-11/18/92	1090.30	04/13/92	1088.85	11/18/92
Poppo (47-0173 P)	NE	1071.1	1929	02/03/89	1190.4						
Porter (47-0057 P)	NE	1189.7	1929	10/10/83							
Powers (47-0048 P)	NE	1085.5	1929	04/21/92							
Richardson (47-0088 P)	NE	1064.1	1929	08/05/66							
Ripley (47-0134 P)	RD	1063.8	1929	03/16/95		69	6/15/61-4/23/99	1063.26	07/05/97	1061.40	10/12/96
Schoolhouse (47-0056 W)	SPLIT	1125.3	1929	11/21/94		188	7/12/34-9/15/99	1126.10	05/15/58	1116.49	12/20/40
Sioux (47-0060 P)	NE	1088.5	1929	08/27/85	1090.5	2	8/1/85-8/14/85	1087.28	08/14/85	1087.08	08/01/85
Smiley (47-0070 P)	NE	1083.6	1929	02/19/92							
Spring (47-0032 P)	NOTSL	1051.8	1929	10/01/80		160	6/3/92-4/23/99	1030.66	04/29/94	1029.38	06/21/97
Star (47-0129 P)	GD	1030.5	1929	03/25/93		61	5/27/92-4/21/99	1164.63	07/26/97	1162.71	09/26/96
Stella (47-0068 P)	NE	1164.9	1929	10/25/88	1068.8 06/28/98	534	4/25/89-7/29/99	1068.81	06/28/98	1066.33	10/26/89
Stone (47-0131 P)	RD	1069.0	1929	10/15/90	1097.8 06/14/61	1	6/14/61-6/14/61	1097.83	06/14/61	1097.83	06/14/61
Thompson (47-0159 P)	NE	1107.2	1929	07/03/80	1107.7 06/25/93	235	12/21/65-4/21/99	1107.72	06/25/93	1101.11	06/21/90
Towers (47-0142 P)	NE	1125.0	1929	03/10/87		12	2/18/87-4/23/99	1125.00	05/21/96	1122.79	07/15/96
Turtle (47-0074 P)	NE	1094.9	1929	06/22/90	1095.3	1	6/12/90-6/12/90	1089.72	06/12/90	1089.72	06/12/90
Unnamed (47-0010 W)	NOTSL	1041.4	1929	01/27/88	1041.9						
Unnamed (47-0030 W)	NOTSL	147.9	ASSUM	06/07/82							
Unnamed (47-0043 P)	NE	1108.1	1929	10/20/83	1109.1						
Unnamed (47-0063 W)	NOTSL	1088.2	1929	01/03/83	1090.3						
Unnamed (47-0072 W)	NOTSL	1103.66	ASSUM	12/22/86	1108.0						
Unnamed (47-0104 W)	NE	1074.8	1929	01/05/88							
Unnamed (47-0132 P)	NE	1163.3	1929	07/09/84	1164.6						
Unnamed (47-0139 W)	NE	1164.9	1929	10/25/88							
Unnamed (47-0148 P)	NE	1145.1	1929	04/19/90	1146.4						
Unnamed (47-0161 W)	NOTSL	1190.7	1929	12/10/84							
Unnamed (47-0191 P)	RD	1172.8	1929	10/10/83	1172.8						
Unnamed (47-0219 W)	NOTSL	1186.6	1929	12/10/84							
Unnamed (47-0280 W)	NOTSL	1061.1	1929	11/14/88							
Unnamed (47-0344 W)	NOTSL	1113.7	1929	10/10/85	1113.9						

LAKE NAME (DNR ID NUMBER)	SIC	OHW ELEV	DATUM	DATE	HKWL / DATE	# Rdgs	Period of Record	Highest Recorded	Lowest Recorded	Range
MEEKER COUNTY Unnamed (47-0349 W)	NOTSL	1224.4	1929	02/04/85	1127.6					
Unnamed (47-0351 W)	NOTSL	1072.2	1929	10/28/92		1	11/3/93-11/3/93	1129.19	1129.19	11/03/93
Unnamed (47-0352 W)	NOTSL	1083.8	1929	02/19/92		1	6/24/98-6/24/98	1168.90	1168.90	06/24/98
Unnamed (47-0117 W)	NE	1129.6	1929	11/09/93		175	4/25/89-4/23/99	1068.30	1066.27	07/11/97
Unnamed (47-0164 P)	NOTSL	1168.7	1929	06/26/98	1069.8 1985	1	11/16/93-11/16/93	1161.62	1161.62	11/16/93
Washington (47-0046 P)	GD	1069.0	1929	10/15/90		16	4/24/89-11/14/91	1080.99	1078.71	06/21/90
Whitney (47-0205 P)	NE	1161.0	1929	12/21/93	1135.1 June '83					
Wilcox (47-0193 P)	NE	1133.6	1929	09/28/83	1090.3					
Willie (47-0061 P)	RD	1081.1	1929	01/03/83						
Wolf (47-0016 P)	RD	1047.8	1929	11/14/88						
MILLE LACS COUNTY Brown (48-0015 P)	GD	1275.7	1929	09/15/88		18	9/6/88-5/17/99	1275.83	1273.42	05/17/99
Mille Lacs (48-0002 P)	GD	1252.8	1929	08/10/87	1253.6	20795	6/11/31-8/10/99	1253.43	1245.74	08/22/72
Ogechie (48-0014 P)	NE	1252.8	1929			5	2/26/91-4/22/97	1251.64	1250.42	06/06/96
Onamia (48-0009 P)	NE	1248.8	1929			2004	9/9/31-5/17/99	1251.32	1245.20	07/28/72
Rice (48-0010 P)	NE	980.5	1929	07/20/72		223	11/30/67-5/17/99	1251.18	1246.51	09/13/72
Shakopee (48-0012 P)	RD	1250.6	1929	08/02/88						
Unnamed (48-0005 W)	NE	974.0	1929	11/25/86						
MORRISON COUNTY Alexander (49-0079 P)	GD	1277.0	1929	10/27/86		903	7/10/56-5/3/99	1277.31	1273.49	08/29/93
Bernhart (49-0135 P)	NE	1282.3	1929	09/10/82		22	6/18/59-5/3/99	1209.82	1208.81	06/30/98
Cedar (49-0140 P)	GD	1209.33	1929	10/15/92		2	6/14/94-7/7/99	1275.82	1274.28	07/07/99
Crookneck (49-0133 P)	GD	1275.6	1929	06/17/94		803	3/12/38-5/3/99	1277.90	1273.54	08/01/72
Fish Trap (49-0137 P)	GD	1276.8	1929	10/27/86		173	9/9/65-8/17/99	1141.53	1139.44	05/13/99
Green Prairie Fish (49-0035 P)	GD	1141.1	1929	11/25/86		1	7/15/91-7/15/91	1276.10	1276.10	07/15/91
Ham (49-0136 P)	NE	1277.6	1929	08/21/95	1197.3	1	5/5/98-5/5/98	1196.34	1196.34	05/05/98
Kuhl (49-0269 W)	NOTSL	1197.1	1929	05/14/98	1197.2	1	5/5/98-5/5/98	1196.16	1196.16	05/05/98
Larson (49-0094 W)	GD	1196.4	1929	05/26/98		61	8/14/93-4/30/99	1260.97	1259.25	06/20/94
Long (49-0015 P)	GD	1260.1	1929	05/18/87						
Peavy (49-0005 P)	GD	1276.7	1929	05/23/94		37	6/18/59-5/3/99	1244.65	1242.58	05/07/97
Pine (49-0081 P)	GD	1245.1	1929	01/22/86						

Appendix C

MPCA Underground Storage Tank List



Tales - Tank List

Selection Criteria: Meeker County - Tanksites with USTs Only

November 16, 2001

Interest Name			Owner			
A - ONE MUFFLER & BRAKE INC (20745) 700 N. SIBLEY LITCHFIELD, 55355			PAUL & KRISTI FLOYD 70995 183RD ST DASSEL, MN 55325			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Chemical Other Or Unspecified		04/15/1996	UnderGround
002	1000	Removed	Chemical Other Or Unspecified		04/15/1996	UnderGround
ANDERSON CHEMICAL CO (121961) 30 W 2nd St Litchfield, 55355			ANDERSON CHEMICAL CO 325 S DAVIS Litchfield, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Diesel		05/24/2001	UnderGround
002	2500	Removed	Gasoline		05/24/2001	UnderGround
ASHLAND SS #430 (FORMER) (11335) SWC 9TH ST & SIBLEY AVE LITCHFIELD, 55355			LESLIE P WORDEN ROUTE 3 LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
011	0	Removed	Gasoline	01/01/1900	09/01/1987	UnderGround
BAUERLY BROTHERS INC (21196) HWY 7 WEST COSMOS, 56228			BAUERLY BROTHERS CO INC 4787 SHADOW WOOD DR NE SAUK RAPIDS, MN 56379			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Gasoline		07/27/2001	UnderGround
BETHANY NURSING HOME (8196) 203 N ARMSTRONG AVE LITCHFIELD, 55355			AUGUSTANA LUTHERAN HOMES INC 218 N HOLCOMBE AVE LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	12000	Removed	Fuel Oil	10/01/1977	05/10/1996	UnderGround
BI PERFORMANCE (19366) 479 MEEKER AVE EDEN VALLEY, 55329			SCHOENECHERS INC 7630 BUSH LAKE RD EDINA, MN 55439			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Removed	Fuel Oil	01/01/1971	08/21/1995	UnderGround
002	10000	Removed	Fuel Oil	01/01/1971	08/21/1995	UnderGround
CASEYS GENERAL STORE (17160) 603 N SIBLEY LITCHFIELD, 55355			CASEYS GENERAL STORES INC PO BOX 3001 ANKENY, IA 50021			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Active	Gasoline	10/13/1992		UnderGround
002	10000	Active	Gasoline	10/13/1992		UnderGround
003	10000	Active	Gasoline	10/13/1992		UnderGround



Tales - Tank List

Selection Criteria: Meeker County - Tanksites with USTs Only

November 16, 2001

Interest Name			Owner			
CEDAR MILLS SHOP (8209)			MEEKER COUNTY HIGHWAY DEPT			
NONE			325 N SIBLEY AVE			
CEDAR MILLS, 55350			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
308	1000	Removed	Diesel	01/01/1969	05/19/1993	UnderGround
408	560	Removed	Fuel Oil	01/01/1969	05/19/1993	UnderGround
CHURCH OF ST. PHILIP (18580)			CHURCH OF SAINT PHILLIP			
306 N HOLCOMBE AVE			306 N HOLCOMBE AVE			
LITCHFIELD, 55355			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Active	Fuel Oil	09/01/1978		UnderGround
CITY OF LITCHFIELD (8169)			CITY OF LITCHFIELD			
100 W DEPOT			126 N MARSHALL AVE			
LITCHFIELD, 55355			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
N02	10000	Removed	Fuel Oil	06/05/1978	10/28/1987	UnderGround
S01	6000	Removed	Fuel Oil	08/10/1952	10/28/1987	UnderGround
CITY UTILITY SHOP (8182)			CITY OF DASSEL			
211 3RD ST			460 3RD ST			
DASSEL, 55325			DASSEL, MN 55325			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
100	1500	Removed	Gasoline	01/01/1900	10/19/1998	UnderGround
CORVASO (MEAT PROCESSING) (15508)			LORWERN SCHMELING			
ROUTE 1			PO BOX 92 - ROUTE 1			
COSMOS, 56228			COSMOS, MN 56228			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Removed	Gasoline	01/01/1901		UnderGround
002	1000	Removed	Gasoline	01/01/1901		UnderGround
CORVUSO (COUNTRY STORE) (15506)			DIBAKD DELEEUW			
50819 129TH ST - ROUTE 1			58030 129TH ST			
COSMOS, 56228			COSMOS, MN 56228			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	550	Removed	Gasoline	01/01/1901	05/29/1992	UnderGround
COSMOS FIRE HALL (10684)			CITY OF COSMOS			
GEMINI & MARS ST			PO BOX 614			
COSMOS, 56228			COSMOS, MN 56228			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Fuel Oil	01/01/1958	05/01/1991	UnderGround
COSMOS SCHOOL (8181)			COSMOS COMMUNITY SCHOOL			
NONE						
COSMOS, 56228			COSMOS, MN			



Tales - Tank List

Selection Criteria: Meeker County - Tanksites with USTs Only

November 16, 2001

Interest Name			Owner			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Removed	Gasoline	01/01/1900	05/08/1990	UnderGround
002	10000	Active	Fuel Oil	01/01/1900		UnderGround
CROP PRODUCTION SERVICE (8178) 504 ATLANTIC AVE DASSEL, 55325			CROP PRODUCTION SERVICE PO BOX A DASSEL, MN 55325			
001	500	Removed	Gasoline	01/01/1900	07/20/1987	UnderGround
CROW RIVER SHOP (8219) NONE CROW RIVER, 55329			MEEKER COUNTY HIGHWAY DEPT 325 N SIBLEY AVE LITCHFIELD, MN 55355			
304	1000	Removed	Diesel	01/01/1969	05/17/1993	UnderGround
CUSTOM PRODUCTS OF LITCHFIELD INC (13669) 1715 S SIBLEY LITCHFIELD, 55355			CUSTOM PRODUCTS OF LITCHFIELD INC PO BOX 718 LITCHFIELD, MN 55355			
001	1000	Removed	Gasoline	06/01/1974	05/02/1990	UnderGround
DARWIN OUTPOST (8195) PO BOX 27 - HWY 12 DARWIN, 55324			DARWIN OUTPOST PO BOX 27 DARWIN, MN 55324			
001	10000	Reconditioned	Gasoline	06/01/1983		UnderGround
002	10000	Reconditioned	Gasoline	06/01/1983		UnderGround
003	1000	Removed	Diesel	06/01/1965	09/01/1990	UnderGround
004	1000	Removed	Diesel	06/01/1965	09/01/1990	UnderGround
005	2000	Active	Diesel	09/01/1990		UnderGround
DARWIN SHOP (8212) NONE DARWIN, 55324			MEEKER COUNTY HIGHWAY DEPT 325 N SIBLEY AVE LITCHFIELD, MN 55355			
310	1000	Removed	Diesel	01/01/1969	12/18/1992	UnderGround
410	500	Removed	Fuel Oil	01/01/1969	12/18/1992	UnderGround
DARWIN VORTAC FACILITY (18749) ROUTE 1 LITCHFIELD, 55355			FAA/MIN AFS 6311 34TH AVE S--ROOM 159 MINNEAPOLIS, MN 55450			
001	515	Removed	Gasoline	01/01/1900	06/21/1994	UnderGround
DASSEL DINER (19919) 841 PARKER AVE W DASSEL, 55325			CURT BRADFORD 75 HASSAN ST S HUTCHINSON, MN 55350			



Tales - Tank List

Selection Criteria: Meeker County - Tanksites with USTs Only

November 16, 2001

<u>Interest Name</u>			<u>Owner</u>			
001	10000	Removed	Fuel Oil	01/01/1900	07/14/1993	UnderGround
002	10000	Removed	Fuel Oil	01/01/1900	07/14/1993	UnderGround
ERWIN SCHLMETTER (17886) MAIN ST CEDAR MILLS, 55350			ERWIN SCHLUETER 61917 134TH ST HUTCHINSON, MN 55350			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	550	Abandoned	Fuel Oil	10/01/1963		UnderGround
002	1000	Abandoned	Gasoline	10/01/1963		UnderGround
003	1000	Abandoned	Gasoline	10/01/1963		UnderGround
FARMERS COOP ELEVATOR CO (14435) PO BOX 126 - 110 HERCULES ST COSMOS, 56228			FARMERS COOP ELEVATOR CO PO BOX 98 - 514 W YELLOW STONE TRAIL BUFFALO LAKE, MN 55314			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Diesel	05/03/1961	05/20/1990	UnderGround
FIRST DISTRICT ASSN (8183) 216 W COMMERCIAL LITCHFIELD, 55355			FIRST DISTRICT ASSN PO BOX 842 LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
011	10000	Removed	Gasoline	10/01/1974	10/02/1990	UnderGround
012	15000	Removed	Diesel	10/01/1974	10/02/1990	UnderGround
013	30000	Removed	Fuel Oil	10/01/1977	10/02/1990	UnderGround
014	12000	Active	Fuel Oil	10/02/1990		UnderGround
FIRST EVANGELICAL LUTHERAN CHURCH (13661) 703 S SIBLEY LITCHFIELD, 55355			FIRST LUTHERAN CHURCH 703 S SIBLEY LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Removed	Fuel Oil	07/14/1980	07/13/1995	UnderGround
FOREST CITY GARAGE (13773) ROUTE 3 - PO BOX 168 LITCHFIELD, 55355			LEE VALIANT PO BOX 168 - ROUTE 3 LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	500	Removed	Gasoline	01/01/1901		UnderGround
002	500	Removed	Gasoline	01/01/1901		UnderGround
FOREST CITY GARAGE (13909) ROUTE 3 - PO BOX 168 LITCHFIELD, 55355			LEE VALIANT PO BOX 168 - ROUTE 3 LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	500	Removed	Gasoline	01/01/1901		UnderGround
002	500	Removed	Gasoline	01/01/1901		UnderGround
FOREST CITY SHOP (8205) NONE			MEEKER COUNTY HIGHWAY DEPT 325 N SIBLEY AVE			



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Interest Name			Owner			
FOREST CITY, 55355			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
302	1000	Removed	Diesel	01/01/1969	05/18/1993	UnderGround

Interest Name			Owner			
FORMER GAS STATION (10682) HWY 15 & ATLANTIC DASSEL, 55325			MILLER MFG CO INC 494 VILLAUME AVE SOUTH ST. PAUL, MN 55075			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1020	Removed	Gasoline	01/01/1900	07/18/1990	UnderGround
002	565	Removed	Gasoline	01/01/1900	07/18/1990	UnderGround
003	1000	Removed	Gasoline	01/01/1900	07/18/1990	UnderGround

Interest Name			Owner			
FORMERLY SMALL GAS STATION (15507) 58012 129TH ST COSMOS, 56228			EVA MILLER 58012 129TH ST COSMOS, MN 56228			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	500	Removed	Gasoline	01/01/1901		UnderGround

Interest Name			Owner			
FOUR & SEVEN CORNER MART (8202) PO BOX 277 COSMOS, 56228			MINNICK OIL CO INC PO BOX 277 COSMOS, MN 56228			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	6000	Removed	Gasoline	08/07/1957	10/15/1996	UnderGround
002	3000	Removed	Diesel	08/07/1957	10/15/1996	UnderGround
003	4000	Removed	Gasoline	08/07/1957	10/15/1996	UnderGround
004	4000	Reconditioned	Diesel	07/15/1985		UnderGround
005	3000	Removed	Diesel	08/07/1957	08/28/1998	UnderGround
006	10000	Active	Gasoline	10/18/1996		UnderGround
007	6000	Active	Gasoline	10/18/1996		UnderGround
008	4000	Active	Diesel	10/18/1996		UnderGround

Interest Name			Owner			
FRIEDERICHS DIRECT SERVICE INC (8214) PO BOX 259 EDEN VALLEY, 55329			FRIEDERICHS DIRECT SERVICE INC PO BOX 259 EDEN VALLEY, MN 55329			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	750	Removed	Kerosene	01/01/1900	09/01/1989	UnderGround
002	875	Removed	Gasoline	01/01/1976	09/01/1989	UnderGround
003	1000	Removed	Diesel	01/01/1971	09/01/1989	UnderGround
004	4000	Removed	Gasoline	01/01/1971	09/01/1989	UnderGround

Interest Name			Owner			
GAARDERS 66 (8197) E HWY 12 GROVE CITY, 56243			MARLE GARDER PO BOX 335 WATKINS, MN 56243			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Removed	Kerosene	07/10/1957	06/16/1998	UnderGround
002	2000	Removed	Diesel	07/10/1957	06/16/1998	UnderGround
003	2000	Removed	Diesel	06/03/1978	06/16/1998	UnderGround
004	6000	Removed	Gasoline	06/03/1978	06/16/1998	UnderGround



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Interest Name			Owner			
005	6000	Removed	Gasoline	06/03/1978	06/15/1998	UnderGround
006	560	Removed	Used Or Waste Oil	06/03/1978	06/16/1998	UnderGround
007	1000	Removed	Kerosene		06/16/1998	UnderGround
008	4000	Active	Gasoline	06/17/1998		UnderGround
009	4000	Active	Diesel	06/17/1998		UnderGround

GARY'S REPAIR/UNION COOP OIL (20947)
 HWY 4 (MAIN ST)
 COSMOS, 56228

UNION COOP OIL CO
 PO BOX 488
 HECTOR, MN 55342

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Diesel	01/01/1900	12/21/1998	UnderGround
002	1000	Active	Diesel	12/21/1998		UnderGround

GLORIA DEI MANOR APARTMENTS (17120)
 218 N HOLCOMBE AVE
 LITCHFIELD, 55355

AUGUSTANA LUTHERAN HOMES INC
 218 N HOLCOMBE AVE
 LITCHFIELD, MN 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	4000	Removed	Fuel Oil	10/20/1978	05/10/1996	UnderGround

GROVE CITY PUBLIC SCHOOL 464 (8179)
 211 S AVE W
 GROVE CITY, 56243

GROVE CITY PUBLIC SCHOOL DISTRICT #464
 PO BOX 278
 GROVE CITY, MN 56243

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
GC1	7000	Active	Fuel Oil	08/01/1968		UnderGround
GC2	8000	Active	Fuel Oil	06/01/1968		UnderGround

GROVE CITY SHOP (8206)
 101 4TH ST S
 GROVE CITY, 56243

MEEKER COUNTY HIGHWAY DEPT
 325 N SIBLEY AVE
 LITCHFIELD, MN 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
305	1000	Removed	Diesel	01/01/1968	12/01/1992	UnderGround

HANDI STOP (8170)
 325 S SIBLEY
 LITCHFIELD, 55355

JOHN DVORAK
 PO BOX 900
 LITCHFIELD, MN 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Reconditioned	Gasoline	03/15/1984		UnderGround
002	6000	Removed	Gasoline	06/01/1976	07/21/1997	UnderGround
003	6000	Active	Gasoline	07/22/1997		UnderGround

HANDISTOP EAST (11664)
 639 E DEPOT
 LITCHFIELD, 55355

JOHN DVORAK
 PO BOX 900
 LITCHFIELD, MN 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	12000	Active	Alcohol Blend	11/10/1987		UnderGround
002	6000	Active	Alcohol Blend	11/10/1987		UnderGround
003	6000	Active	Alcohol Blend	11/10/1987		UnderGround
004	4000	Active	Diesel	11/10/1987		UnderGround



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Interest Name			Owner			
005	6000	Active	Diesel	11/10/1987		UnderGround
HANDISTOP NORTH (10670) 415 N SIBLEY LITCHFIELD, 55355			JOHN DVORAK PO BOX 900 LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	4000	Active	Gasoline	04/01/1987		UnderGround
002	10000	Active	Gasoline	04/01/1987		UnderGround
003	4000	Active	Gasoline	04/01/1987		UnderGround
004	6000	Removed	Gasoline	01/01/1900		UnderGround
005	4000	Removed	Gasoline	01/01/1900		UnderGround
006	4000	Removed	Gasoline	01/01/1900		UnderGround
007	1000	Removed	Fuel Oil	01/01/1900		UnderGround
HI HO TRUCK STOP & CAFE OF LITCHFIELD (10671) HWY 12 W LITCHFIELD, 55355			HI HO CAFE OF LITCHFIELD INC PO BOX 87 MANKATO, MN 56001			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Removed	Diesel	06/30/1975	05/19/1994	UnderGround
002	4000	Removed	Gasoline	06/30/1965	05/19/1994	UnderGround
003	4000	Removed	Diesel	06/30/1965	05/19/1994	UnderGround
004	4000	Removed	Gasoline	06/30/1965	05/19/1994	UnderGround
005	4000	Removed	Gasoline	06/30/1965	04/28/1987	UnderGround
006	4000	Removed	Gasoline	04/28/1987	05/19/1994	UnderGround
007	4000	Removed	Gasoline	04/28/1987	05/19/1994	UnderGround
008	4000	Removed	Gasoline	01/01/1900	04/28/1987	UnderGround
HICKS BUS LINE INC (8163) 104 N GORMAN LITCHFIELD, 55355			HICKS BUS LINE INC 104 N GORMAN LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Gasoline	06/01/1972	06/17/1996	UnderGround
002	6000	Removed	Diesel	08/20/1980	06/17/1996	UnderGround
HOLT MOTOR OF LITCHFIELD (8191) 701 N SIBLEY LITCHFIELD, 55355			ADOLPH L KVAM 25 W LOCKERBIE LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	265	Removed	Used Or Waste Oil	06/30/1980	11/02/1989	UnderGround
JACK'S STANDARD (10147) 241 SERVICE RD/PO BOX 87 WATKINS, 55389			JOHN F GRUENES PO BOX 87 WATKINS, MN 55389			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	6000	Removed	Gasoline	01/01/1985	10/22/1991	UnderGround
002	2000	Removed	Gasoline	01/01/1976	10/22/1991	UnderGround
003	10000	Removed	Gasoline	01/01/1976	10/22/1991	UnderGround
004	8000	Removed	Diesel	01/01/1976	10/01/1995	UnderGround



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Interest Name			Owner			
003	3000	Removed	Kerosene	06/01/1973	06/08/1990	UnderGround
004	2000	Removed	Chemical Other Or Unspecified	06/01/1973	06/08/1990	UnderGround

LONGFELLOW SCHOOL (10687) LITCHFIELD SCHOOL DISTRICT 465
 S SIBLEY 901 N GILMAN
 LITCHFIELD, 55355 LITCHFIELD, MN 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Removed	Fuel Oil	07/01/1975		UnderGround

LORENSENS 66 SERVICE (8177) DWIGHT E LORENSEN
 606 N SIBLEY 702 S HUBBARD
 LITCHFIELD, 55355 LITCHFIELD, MN 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	3000	Removed	Gasoline	01/01/1960		UnderGround
002	6000	Removed	Gasoline	01/01/1960		UnderGround
003	4000	Removed	Gasoline	01/01/1960		UnderGround
004	4000	Removed	Gasoline	01/01/1973		UnderGround
005	6000	Active	Gasoline	04/19/1989		UnderGround
006	6000	Active	Gasoline	04/19/1989		UnderGround
007	10000	Active	Gasoline	04/19/1989		UnderGround

LUTGENS STORE (12813) ALLEN LUTGEN
 15906 CO RD 21 (SAINT NICHOLAS) 15906 CO RD 21
 WATKINS, 55389 WATKINS, MN 55389

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Active	Gasoline	10/28/1991		UnderGround
111	550	Removed	Gasoline	09/08/1973	10/27/1991	UnderGround
222	2000	Removed	Gasoline	09/08/1973	10/27/1991	UnderGround
333	1000	Active	Fuel Oil	09/08/1973		UnderGround

Lee Prouncal Residence (118982) Unknown
 6189 245th St
 LITCHFIELD, 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Abandoned	Fuel Oil			UnderGround

Leland Provencher (119041) Leland Provencher
 62189 245 st. 62189 245th st
 LITCHFIELD, 55355 LITCHFIELD, MN 55355

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Abandoned	Other Substance	11/01/1973		UnderGround

MANANNAH STORE (18989) DONALD DANIELSON
 5727 S CO STATE 57275 CSAH 30- MANANNAH
 GROVE CITY, 56243 GROVE CITY, MN 56243

Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	500	Removed	Gasoline	01/01/1900	11/22/1994	UnderGround
002	500	Removed	Gasoline	01/01/1900	11/22/1994	UnderGround



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Interest Name			Owner			
LITCHFIELD, 55355			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Active	Fuel Oil	01/01/1951		UnderGround
002	200	Removed	Alcohol Blend	01/01/1951	08/29/1989	UnderGround
003	400	Active	Fuel Oil	01/01/1971		UnderGround
MERGEN AMBULANCE SERVICE (18405) 310 S SIBLEY AVE LITCHFIELD, 55355			MIKE MERGEN 621 MEEKER AVE N WATKINS, MN 55389			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	500	Removed	Gasoline	01/01/1900	11/08/1993	UnderGround
MICROWAVE RADIO STATION (10674) NONE GROVE CITY, 56243			BURLINGTON NORTHERN SANTE FE RAILWAY 80 - 44TH AVENUE NORTHEAST MINNEAPOLIS, MN 55421			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	300	Removed	Diesel	01/01/1972	11/07/1995	UnderGround
MID AMERICAN DAIRYMEN INC (5631) 139 CENTRAL AVE WATKINS, 55389			MID AMERICA DAIRYMEN INC 3050 CENTRE POINTE - SUITE 500 ROSEVILLE, MN 55113			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	25000	Removed	Diesel	01/01/1966		UnderGround
MIES EQUIPMENT INC (13843) HWY 55 W WATKINS, 55389			ANTHONY MIES 1ST BX 336 WATKINS, MN 55389			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1500	Removed	Used Or Waste Oil	08/01/1981	08/11/1993	UnderGround
MOBIL EAST (8217) NONE LITCHFIELD, 55355			ANDERSON CADILLAC INC 7400 WAYZATA BLVD GOLDEN VALLEY, MN 55426			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	3000	Removed	Gasoline	01/01/1900		UnderGround
002	3000	Removed	Gasoline	01/01/1900		UnderGround
003	3000	Removed	Gasoline	01/01/1900		UnderGround
004	3000	Removed	Gasoline	01/01/1900		UnderGround
005	560	Removed	Fuel Oil			UnderGround
OLD AIRPORT (8185) NORTH EAST LITCHFIELD LITCHFIELD, 55355			JOHNSON BROTHERS CORP PO BOX 1002 LITCHFIELD, MN 553551002			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Removed	Aviation Gas	05/30/1974		UnderGround
002	4000	Removed	Aviation Gas	10/30/1978		UnderGround
003	2000	Removed	Aviation Gas	01/01/1970	04/11/1990	UnderGround



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Interest Name			Owner			
OLSON CLINTON W (8193) 406 N SWIFT LITCHFIELD, 55355			CLINTON W OLSON 406 N SWIFT LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Removed	Fuel Oil	01/01/1900	09/18/1995	UnderGround
PARCEL C (18285) NONE DARWIN, 55324			MN DOT (METRO OFFICE) 3485 HADLEY AVE N (MAIL STOP 620) OAKDALE, MN 551283307			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	550	Removed	Gasoline	01/01/1900	06/06/1994	UnderGround
002	550	Removed	Used Or Waste Oil	01/01/1900	06/16/1994	UnderGround
003	550	Removed	Used Or Waste Oil	01/01/1900	06/16/1994	UnderGround
004	550	Removed	Diesel	01/01/1900	06/16/1994	UnderGround
PUMP & PANTRY (8175) HWY 12 W GROVE CITY, 56243			PUMP & PANTRY 602 S 1ST ST WILLMAR, MN 56201			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	8000	Active	Gasoline	11/01/1984		UnderGround
002	8000	Active	Alcohol Blend	11/01/1984		UnderGround
003	2000	Temporarily Closed	Gasoline	05/01/1974		UnderGround
RIPLEY ELEMENTARY SCHOOL (8173) 100 W PLEASURE DR LITCHFIELD, 55355			LITCHFIELD SCHOOL DISTRICT 465 901 N GILMAN LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	12000	Active	Fuel Oil	07/01/1969		UnderGround
RIVERSIDE STORE (8168) 64768 318TH ST(FOREST CITY VILLAGE) LITCHFIELD, 55355			LUVERNE BOHNING 64768 318TH ST LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Gasoline	06/15/1969	08/19/2001	UnderGround
002	1000	Active	Gasoline	08/19/1998		UnderGround
RON STRANSKY PROPERTY (13528) 324 W WIESEL LITCHFIELD, 55355			RON STRANSKY 324 W WIESEL ST LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	3000	Removed	Fuel Oil	01/01/1970	12/13/1997	UnderGround
RONS STANDARD SERVICE (8203) 150 PARKER AVE DASSEL, 55325			RONALD L RAUSCHENDORFER 150 PARKER AVE DASSEL, MN 55325			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
004	550	Active	Used Or Waste Oil	01/10/1900		UnderGround
OP1	10000	Active	Gasoline	11/01/1978		UnderGround



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Interest Name			Owner			
OR3	6000	Active	Gasoline	01/01/1900		UnderGround
LF2	10000	Active	Gasoline	09/01/1972		UnderGround
ROSENDALE SHOP (8211)			MEEKER COUNTY HIGHWAY DEPT			
NONE			325 N SIBLEY AVE			
ROSENDALE, 55355			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
311	1000	Removed	Diesel	01/01/1969	05/17/1993	UnderGround
411	500	Active	Fuel Oil	01/01/1969		UnderGround
ROSENDALE STORE (16391)			ATWATER STATE BANK			
20248 530TH AVE			PO BOX 755			
GROVE CITY, 56243			ATWATER, MN 56209			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001		Removed	Gasoline	01/01/1900	06/01/1992	UnderGround
002		Removed	Diesel	01/01/1900	06/01/1992	UnderGround
ROY MYLLYKANGAS & SONS INC (8218)			ROY MYLLYKANGAS & SONS INC			
31739 COUNTY STATE A/CSAH 19			PO BOX 95 - ROUTE 2			
KIMBALL, 55353			KIMBALL, MN 55353			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	850	Removed	Gasoline	11/01/1973	09/01/1991	UnderGround
002	850	Removed	Diesel	11/01/1973	09/01/1991	UnderGround
SAINT NICHOLAS PARISH (5559)			SAINT NICHOLAS CHURCH			
15862 CO RD 165			PO BOX 42 - ROUTE 1			
WATKINS, 55389			WATKINS, MN 55389			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Removed	Fuel Oil	07/08/1976	09/22/1995	UnderGround
STELLAS RESTAURANT TRUCK STOP (14319)			STELLA SCHNEIDER			
HWY 55 E - NORTH SIDE HWY			619 W RIVER ST			
SOUTH HAVEN, 55382			MONTICELLO, MN 55362			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Gasoline	06/01/1965	09/28/1991	UnderGround
002	1000	Removed	Diesel	06/01/1965	09/28/1991	UnderGround
003	6000	Removed	Gasoline	06/01/1965	09/28/1991	UnderGround
004	8000	Removed	Diesel	06/01/1965	09/28/1991	UnderGround
SUPERAMERICA SS4013-CENTRAL ZONE A8 (10681)			SPEEDWAY SUPERAMERICA LLC			
225 E DEPOT ST			500 SPEEDWAY DRIVE			
LITCHFIELD, 55355			ENON, OH 45323			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	12000	Removed	Alcohol Blend	12/10/1962	06/03/1996	UnderGround
002	12000	Removed	Alcohol Blend	10/10/1962	06/03/1996	UnderGround
003	10000	Removed	Alcohol Blend	12/10/1962	06/03/1996	UnderGround
004	12000	Active	Alcohol Blend	06/06/1996		UnderGround
005	12000	Active	Alcohol Blend	06/06/1909		UnderGround



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006	10000	Active	Alcohol Blend	06/06/1996		UnderGround
TOM THUMB FOOD MARKETS (8192) 550 PARKER AVE DASSEL, 55325			TOM THUMB INC 110 E 17TH ST HASTINGS, MN 55033			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	12000	Reconditioned	Gasoline	06/23/1980		UnderGround
002	12000	Reconditioned	Gasoline	06/23/1980		UnderGround
003	12000	Reconditioned	Diesel	06/23/1980		UnderGround
TOM THUMB STORE #177 (11766) 914 SIBLEY AVE LITCHFIELD, 55355			TOM THUMB INC 110 E 17TH ST HASTINGS, MN 55033			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	12000	Reconditioned	Gasoline	09/01/1986		UnderGround
002	12000	Reconditioned	Gasoline	09/18/1986		UnderGround
003	10000	Reconditioned	Gasoline	09/18/1986		UnderGround
004	10000	Reconditioned	Diesel	09/18/1986		UnderGround
US FISH & WILDLIFE SERVICE (8201) 971 E FRONTAGE RD LITCHFIELD, 55355			US FISH & WILDLIFE SERVICE 971 E FRONTAGE RD LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Removed	Gasoline	01/01/1980		UnderGround
002	1000	Removed	Gasoline	01/01/1980		UnderGround
003	1000	Removed	Diesel	01/01/1980		UnderGround
US POST OFFICE (8216) MAIN ST COSMOS, 56228			HAROLD & DOROTHY MINNICK COSMOS, MN			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	1000	Active	Unregulated	01/01/1971		UnderGround
VALLEY QUICK STOP (10675) 110 MEEKER AVE - PO BOX 373 EDEN VALLEY, 55329			THOMAS W INSELMAN PO BOX 373 EDEN VALLEY, MN 55329			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	10000	Active	Gasoline	10/29/1990		UnderGround
002	4000	Active	Gasoline	10/29/1990		UnderGround
003	2000	Active	Gasoline	10/29/1990		UnderGround
0D1	1000	Removed	Diesel	06/15/1967	10/28/1990	UnderGround
0D2	1000	Removed	Diesel	06/15/1967	10/28/1990	UnderGround
0R3	7500	Removed	Gasoline	08/10/1975	10/28/1990	UnderGround
PU5	7500	Removed	Gasoline	08/10/1975	10/28/1990	UnderGround
UL4	7500	Removed	Gasoline	08/10/1975	10/28/1990	UnderGround
WAGNER ELEMENTARY SCHOOL (8174) 307 E 6TH ST			LITCHFIELD SCHOOL DISTRICT 465 901 N GILMAN			



Tales - Tank List

Selection Criteria: Meeker County - Tanksites with USTs Only

November 16, 2001

<u>Interest Name</u>			<u>Owner</u>			
LITCHFIELD, 55355			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	8000	Removed	Fuel Oil	07/01/1953	06/24/1988	UnderGround
WATKINS ELEMENTARY SCHOOL (10678)			EDEN VALLEY IND SCHOOL DISTRICT #463			
NONE			298 BROOKS ST			
WATKINS, 55329			EDEN VALLEY, MN 55329			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
004	7500	Removed	Fuel Oil	01/01/1900	06/20/1989	UnderGround
WATKINS SHOP (8208)			MEEKER COUNTY HIGHWAY DEPT			
216 4TH ST			325 N SIBLEY AVE			
WATKINS, 55389			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
309	1000	Removed	Diesel	05/13/1986	12/16/1992	UnderGround
409	500	Active	Fuel Oil	05/13/1986		UnderGround
WILSON LOWELL (8199)			LOWELL WILSON			
21 E 5TH ST			21 E 5TH ST			
LITCHFIELD, 55355			LITCHFIELD, MN 55355			
Tank	Capacity	Status	Stored Product	Installed	Removed	A/U
001	2000	Active	Fuel Oil	07/11/1973		UnderGround

Appendix D

North Fork of the Crow River Wild and Scenic River Management Rules

MINNESOTA RULES - Wild & Scenic Rivers Legislation: North Fork of the Crow River Management

See also: [1997 Minnesota Rules Index](#)

6105.1000 DESIGNATION OF RIVER.

That portion of the north fork of the Crow River from the spillway at the southern end of Lake Koronis to the Meeker-Wright County line, located entirely within Meeker County, is designated a component of the Minnesota wild and scenic rivers system.

6105.1010 STATUTORY AUTHORITY.

This designation is made by the commissioner of the Department of Natural Resources pursuant to the authority of the Minnesota Wild and Scenic Rivers Act, Minnesota Statutes 1974, sections 104.31 to 104.40.

6105.1020 SCOPE.

The designation and parts 6105.1000 to 6105.1130 apply to the river and the adjacent lands indicated in the property descriptions for the land use district.

6105.1030 CLASSIFICATION: RECREATIONAL RIVER.

That portion of the north fork of the Crow River in Meeker County from the spillway at the southern end of Lake Koronis to the Meeker-Wright County line, is classified as recreational, in accordance with provisions of Minnesota Statutes, section 104.33, subdivision 2, and part 6105.0060.

6105.1040 LAND USE MANAGEMENT.

Subpart 1. Adoption of land use district. The commissioner of the Department of Natural Resources hereby adopts the recreational river land use districts as identified in the land use district property descriptions. The land use district was derived in accordance with part 6105.0070, subpart 2, item B.

A. The regulations contained in parts 6105.0010 to 6105.0250 and this management plan shall be applicable to all lands which are unincorporated at the time of designation within the recreational river land use district.

B. The land use regulations contained in parts 6120.2600 to 6120.3900 and this management plan shall be applied to all incorporated lands, and shall be administered in conformity with the provisions of parts 6105.0220 to 6105.0250, as applicable.

C. All existing local ordinances and regulations, as adopted in accordance with parts 6120.0200 to 6120.2100, which are more protective than those in parts 6105.0010 to 6105.0250 shall continue to apply within the entire land use district, as applicable.

Subp. 2. Building height. The maximum building height restriction contained in part 6105.0110, subpart 3, item D shall not apply to buildings used primarily for agricultural purposes.

Subp. 3. Grading and filling. The grading and filling provisions shall be enforced by local ordinance, which shall require a grading and filling permit. Filling or drainage of federally determined type III-V wetlands (in accordance with U.S. Department of Interior circular No. 39) shall not be allowed within the land use district. A map showing the location and classification of these wetlands shall be provided to the local authority by the commissioner of the Department of Natural Resources.

Subp. 4. Clear cutting of vegetation. Clear cutting of vegetation, in accordance with part 6105.0150, shall not be allowed within 200 feet of the normal high water mark, in order to correspond with the existing structural setback.

6105.1050 LAND ACQUISITION.

Subpart 1. Scenic areas. The commissioner of the Department of Natural Resources hereby adopts the scenic areas, as identified in the scenic areas property descriptions, as priority areas for land or land interest acquisition.

A. All lands shown as scenic areas are recommended for scenic easement acquisition. However, in those areas where recreational sites are needed, fee title to the lands may be acquired, when possible.

B. Because acquisition of land, or interests in land, is from willing sellers, at the appraised value, some lands shown as scenic areas and not needed for recreational sites may be purchased in fee title. Purchase of fee title to lands would be based on an agreement between the state of Minnesota and the landowner(s).

C. Other forms of acquisition, such as use easements or leases, may be used to acquire land interests in the scenic areas if considered feasible or necessary by the commissioner of the Department of Natural Resources.

Subp. 2. Purchase of lands. Lands, or interests in land, other than those identified as scenic areas, may be purchased in order to further the policies established in the Wild and Scenic Rivers Act and the management plan.

Subp. 3. Funds. The lands or interests in land recommended to be acquired in this plan will be acquired where funds are available for such purchases from willing sellers, as provided for in Minnesota Statutes, section 104.37.

Subp. 4. Land exchanges. Land exchange will be expedited, wherever feasible, in order to acquire lands within the land use district boundaries. These exchanges will be expedited in the manner described by state law. However, land exchanges will not be recommended if

such exchanges would adversely affect other Department of Natural Resources management programs.

6105.1060 RECREATION MANAGEMENT.

Subpart 1. Policy. As provided for in this management plan, the recreation management policy is to provide for the orderly use of public lands and waters within the recreational river land use district. The development of selected land and river-oriented recreational facilities and the maintenance to these could help protect the rights of private landowners, ensure quietude, prohibit trespassing, and maintain the essential quality of wild and scenic river land use districts as provided in part 6105.0210.

Subp. 2. Design specifications. As provided for in part 6105.0100, subpart 3 and the management plan, development of public or private recreational facilities within the recreational river land use district shall conform to the design specification guidelines shown in this plan.

Subp. 3. Camping. No public river-oriented camping facilities will be provided in close proximity to private recreational developments which are designed to meet this need.

Subp. 4. Regulation of use. The recreational use of the north fork of the Crow recreational river and adjacent state lands will be regulated where necessary to ensure that the use does not adversely affect the values for which the river qualified for designation.

Subp. 5. Management maps. The commissioner of the Department of Natural Resources adopts the recreation management maps for the protection, recreational use, and management of public lands or interests in land, for the north fork of the Crow recreational river and its adjacent lands within the recreational river land use district. The locations, types, and number of sites shown on the recreation management map are recommendations.

Subp. 6. Funds. The Division of Parks and Recreation shall allocate funds for maintenance of the Department of Natural Resources' recreational facilities within the north fork of the Crow recreational river area from the department's river development and maintenance account.

Subp. 7. Division of responsibilities. The DNR's Division of Enforcement shall enter into discussions with the local units of government concerning delineation of responsibilities for enforcement of applicable wild, scenic, and recreational river regulations.

Subp. 8. Snowmobile trails. Additional public snowmobile trails may be established within the land use district, when developed in cooperation with the Department of Natural Resources.

Subp. 9. New recreational facilities. Development of any new recreational facilities (other than those shown on the recreation management map) by the DNR shall be done only if assurances can be made that these facilities, and any increased use caused by them, will not adversely affect the quality of the river. Local authorities shall be consulted prior to future development of recreational facilities by the DNR.

6105.1070 ADMINISTRATION OF MANAGEMENT PLAN.

Subpart 1. Meeker County. Meeker County shall enact or amend such ordinances and maps as necessary to:

A. establish the recreational river land use district identified in the land use district property descriptions as given in this management plan; and

B. conform to the provisions of parts 6105.0010 to 6105.0250 and this management plan, as applicable.

Subp. 2. Kingston. The municipality of Kingston shall enact or amend such ordinances and maps as necessary to:

A. establish the recreational river land use district as delineated for its jurisdiction in the land use district property descriptions; and

B. conform to the provisions of parts 6120.2600 to 6120.3900 within the land use district, and administer these provisions according to parts 6105.0210 to 6105.0250, as applicable.

Subp. 3. More protective restrictions. Meeker County, or its subdivisions, shall retain any existing regulations (adopted in accordance with parts 6120.0200 to 6120.2100) which are more protective than parts 6105.0010 to 6105.0250, and may adopt other more protective regulations as they deem appropriate.

Subp. 4. Departmental assistance. The Department of Natural Resources shall assist the local units of government in the implementation of parts 6105.0010 to 6105.0250 and this management plan, in accordance with the provisions of Minnesota Statutes 1974, section 104.36, subdivision 2. The Department of Natural Resources shall delineate the land use district boundaries on the appropriate zoning maps, for the affected local units of government.

6105.1080 RECOMMENDATIONS FOR COOPERATION WITH GOVERNMENTAL UNITS.

Recommendations:

A. It is recommended that Meeker County work with the board of supervisors of the Soil and Water Conservation District in setting criteria for the use of soil conservation service technical assistance for evaluating grading and filling permit requests relating to part 6105.0160, grading and filling provisions.

B. It is recommended that the Meeker County highway department and the Minnesota Department of Transportation cooperate with the Minnesota Department of Natural Resources by placing no parking signs along any bridge crossing rights-of-way that are determined to be inadequate or dangerous as river access points.

C. It is recommended that the Meeker County park board complete development of lands it owns along the management area. DNR assistance will be provided for development, where appropriate.

D. It is recommended that the State Planning Agency, Office of Local and Urban Affairs, give priority to any local funding to requests for fee title acquisition of land for recreational sites within the management area consistent with the goals of the State Comprehensive Outdoor Recreation Plan (SCORP).

E. No Department of Natural Resources corridor trails are proposed in this management plan for the Crow River area. Local residents and landowners may desire specific trails. If so, it is recommended that such trails be developed through DNR's trail assistance programs, which make funds for trail development and maintenance available to local units of government, and private clubs and organizations.

F. To ensure that the historical heritage of the Crow River will be protected for the enjoyment of present and future generations, it is recommended that the Minnesota Historical Society consider the feasibility of conducting a study of historical and archaeological sites within the management area.

G. It is recommended that any recreational facilities, other than those shown on the recreation management map, be developed by local units of government, to ensure that maximum local input is obtained.

6105.1090 LAND USE DISTRICT ACREAGE PER RIVER MILE.

6105.1100 PROPERTY DESCRIPTIONS: LAND USE DISTRICT.

6105.1110 PROPERTY DESCRIPTIONS: SCENIC AREAS.(proposed)

HIST: 12 SR 365 Current as of 11/12/97

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[driving directions](#)

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