

Appendix VIII

Water Special Designations

Impaired Waters

Section 303(d) of the 1972 Clean Water Act requires states, tribes and territories to develop lists of impaired waters. Impaired waters are those not meeting water quality standards, including both water quality criteria for specific substances or designated uses (those uses which are codified in water quality standards regulations, i.e. NR 104, Wis. Adm. Code). Each state is required to submit a 303(d) list every two years. The next list will be submitted in 2002.

DISCLAIMERS:

- Any information listed under the Impact and pollutant categories (Sediment Dominated, Atmospheric Deposition, Habitat, NPS Dominated, NPS/PS Blend, Point Source Dominated, and Other) should be considered preliminary in nature. Future revisions may occur as information on the list is verified by DNR staff in the regional offices.
- The Existing Use and Codified Use attributes do not contain information for every waterbody listed. For waterbodies listed because of a Mercury or PCB Fish Consumption Advisory, the Existing Use and Codified Use fields were left blank because the waterbody was listed due to a human health use not being met (fish consumption advisory), rather than a codified use. For waterbodies listed for other reasons, where the Use fields are blank, DNR Regional Staff should be contacted for more information.

ATTRIBUTES:

Waterbody Name	Waterbody Name - Source: DNR Register of Waterbodies (ROW) Database & DNR staff
County	County Name – Source: DNR Register of Waterbodies (ROW) Database.
Stream Miles	Stretch of stream listed on 303(d) list. 0 miles represents the mouth of the stream.
Total Miles	Total mileage of each stream segment listed on 303(d) list.
Region	DNR Regions – Source: DNR Register of Waterbodies (ROW) Database. There are 5 DNR Regions: Northeast Region (NER), Northern Region (NOR), South Central Region (SCR), Southeast Region (SER), West Central Region (WCR)
GMU	DNR Geographic Management Unit - Source: DNR Register of Waterbodies (ROW) Database.
Existing Use	Existing biological use
Codified Use	Codified use (based on water quality standards regulations, i.e. NR 104, Wis. Adm. Code)
Impact	Type of impact(s) causing the impairment.
Sediment DOM	Contaminated Sediment Waters – Waters in which the impairment is present primarily as a result of toxic or other substances in the sediments which may be affecting either the ecology or uses of the site or moving off-site and affecting other uses of the water at locations beyond the boundary of the contaminated sediment.

ATM DEP	Atmospheric deposition dominated – The impairment is primarily a result of atmospheric deposition of toxic substances (such as mercury) into the waterbody and sediments resulting in concentrations in fish tissue above levels safe to consume.
Habitat DOM	Habitat/Physical Impaired - The impairment is primarily a result of destruction of habitat for aquatic organisms due to flow obstructions or physical barriers to the movement of water where aquatic organism populations are impacted by alterations in the natural flow of water at a particular site.
NPS DOM	Nonpoint Source Dominated - Impairment is primarily due to nonpoint source runoff or from the destruction of habitat caused by nonpoint sources.
Point DOM	Waters in which the impairment is present as a result of current discharge from an existing point source.
NPS/PS Blend	Nonpoint Source & Point Source Blend - Waters in which nonattainment of standards is substantially affected by both point source contributions and nonpoint source runoff, and in which both types of sources, each may be contributing to the failure to achieve water quality standards.
Other DOM	Other Factors - Waters impaired as a result of several different categories of impairment or there are uncertainties regarding the cause of impairment.

USES

Use	Description
Cold	Cold Water Community: includes surface waters capable of supporting a community of cold water fish and other aquatic life or serving as a spawning area for cold water species.
Cold I	Class I cold water trout stream
Cold II	Class II cold water trout stream
Cold III	Class III cold water trout stream
DEF	
FAL	Fish & Aquatic Life: default standard for all streams not formally classified otherwise which assumes the water meets the Clean Water Act goals of supporting recreation and aquatic life uses.
LAL	Limited Aquatic Life (marginal surface waters): includes surface waters of severely limited capacity because of low flow and naturally poor water quality or poor habitat. Capable of supporting only a limited community of aquatic life.
LFF	Limited Forage Fish Community: includes surface waters of limited capacity b/c of low flow, naturally poor water quality or poor habitat. Capable of supporting only a limited community of tolerant forage fish & other aquatic life.
WWFF	Warm Water Forage Fish Community: includes surface waters capable of supporting an abundant diverse community of forage fish and other aquatic life.
WWSF	Warm Water Sport Fish Community: includes surface waters capable of supporting a community of warm water sport fish or serving as a spawning area for warm water sport fish.

Impacts

Impact	Description
Aq. Toxicity	toxic levels of contaminants in the water column
bac	excessive levels of bacteria
cha	channelization
chl a	high chlorophyll a levels
dioxin	dioxin
DO	low levels of dissolved oxygen for designated use
eutrophication	eutrophication
FCA	fish consumption advisory
fish kills	fish kills from unspecified factors
flow	hydrologic modifications leading to unacceptable
hab	loss of in-stream habitat
Hg	mercury
Hg FCA	mercury fish consumption advisory
lf	low flow
Loss	wetland loss
Met	elevated metals levels in water column
Mig	hinderance to fish migration
NH3	ammonia
pah	polycyclic aromatic hydrocarbons
pcb	PCBs
pcb FCA	pcb fish consumption advisory
petroleum	petroleum
pH	problems with pH exceedences
psb	Streambank pasturing
Sed	sedimentation on stream bottom
ss	excess suspended solids in water column
temp	elevated temperature for designated biological use
Tox	toxicity in the water column
Turbidity	excessive total suspended solids leading to turbidity
Urb	Urban storm water runoff
Wildlife	aquatic toxicity to wildlife
winter kills	winter fish kills

Impaired Waters in the Lakeshore Basin

WaterBodyName	County	Total Miles	Stream Mile Range	WT	Existing Use	CLASS	Impact	Source	Priority Rank	Contam Sed	Atm Dep	NPS Dom	NPS/PS Blend	Other Dom	WBIC
Bullhead Lake	Manitowoc			MA04			Hg FCA		low		x				68300
Jordan Creek	Calumet	1	0-1.2	MA05		WWSF	pcb FCA		high	x					80200
Killsnake Creek	Calumet	5	0-5	MA05		WWSF	pcb FCA	x	high	x					78200
Killsnake Creek	Calumet	15	5-20	MA05		WWSF	pcb FCA		high	x					78200
Manitowic River (mouth to confluence with N. Branch)	Manitowoc	36	0-36	MA02		WWSF	pcb FCA		low	x					71000
Manitowoc S. Branch (Confluence with N. Branch to Chilton)	Calumet	12	36-48.42	MA05		WWSF	pcb FCA		high	x					77900
N. Branch Manitowoc River	Calumet	5	0-5	MA04		WWSF	DO, hab		high				x		71000
Pine Creek	Calumet	5	4-9	MA05		WWSF	pcb FCA		high	x					79900
Pine Creek	Calumet	4	0-4	MA05		WWSF	pcb FCA		high	x					79900
Silver Lake	Manitowoc			MA01			DO, winter kills		high				x		67400
Ahnapee River	Door, Kewaunee	14	0-14	TK04			pcb FCA		low					x	94800
Clark Lake	Door			TK06			pcb FCA		low	x					97700
East Alaska Lake	Kewaunee			TK04			Hg FCA		low		x				94200
East Twin River upstream to first dam	Manitowoc	19	19	TK01			pcb FCA		low					x	84000
Kewaunee Harbor	Kewaunee	1	0-1	TK03			Aq. Toxicity, FCA		low					x	
Kewaunee Marsh	Kewaunee	1	<1	TK03			Aq. Toxicity, Wildlife		high	x				x	
Kewaunee River	Kewaunee	26	0-26	TK03			pcb FCA		low					x	90700
Mackaysee Lake	Door			TK06			Hg FCA		low		x				93500
Stony Creek	Door	5	0-5	TK05	WWSF	Cold II	hab	hm	med			x			96100
Sturgeon Bay, Ship Canal	Door	1	0-1	TK05			Aq. Toxicity		low	x					96700
Two Rivers Harbor	Manitowoc	1	0-1	TK01/02			Aq. Toxicity, FCA		low					x	83900
West Twin River	Kewaunee, Manitowoc	19	0-19	TK01	WWSF	Cold II	sed, nut, FCA	nps, Aq. Tox, FCA	low					x	87000

Outstanding and Exceptional Resource Waters

The following waterbodies are listed as outstanding and exceptional resource waters:

Waterbody	Portion	Status
Logan Creek	All in S33 T29N R27E	ORW
Mink River	All	ORW
Hidden Springs Creek	All	ERW
Keyes Creek	All in S33 T27N R24N	ERW
Millhome Creek	All	ERW
Branch River	All	ERW
Little Scarboro	All	ORW
Casco Creek	From T24N R24E S19 downstream of Rock Ledge to Kewaunee River	ERW
Krok Creek (E Twin River)	All above Hwy 29	ERW
Rogers Creek	All	ERW