

DATE: November 26, 2001 FILE REF: 3200

TO: Natural Resources Board Members

FROM: Darrell Bazzell

SUBJECT: Background Memo on Proposed Revisions to Chapters NR 102, 104, and 106 as Related to Stream Classifications

Background:

In 1976, the Department promulgated an extensive list of designated aquatic life uses for waterbodies in the state, as required by s. 281.15(1), Stats. Designating aquatic life uses for surface waters is based on a scientific classification system that determines the aquatic life community that can be attained in a specific waterbody. Once a designated use is assigned to a waterbody, the Department is required to manage the discharge of pollutants to that waterbody so that the certain water quality criteria are not exceeded. In most cases, different water quality criteria apply to different use designations.

When designating a use, the Department may classify surface waters as cold water, warm water sport fish, warm water forage fish, limited forage fish or limited aquatic life. The latter two use designations are commonly referred to as "*limited use*" designations since those waters cannot naturally support a diverse fish and aquatic life community. If the Department does not formally assign a use designation to a water in ch. NR 104 (Wis. Adm. Code), any necessary regulatory decisions are made based on a use classification of warm water sport fish or warm water forage fish. Waters that are capable of supporting a cold water community must be specifically listed by reference to the 1980 Wisconsin Trout Streams Book (Publ. 6-3600(80)) or be listed in ch. NR 104. In all cases, "*limited use*" waters must be listed in ch. NR 104 for regulatory decisions to be made recognizing those use designations.

An example of how a use designation affects a WPDES permittee that may discharge oxygen demanding pollutants is presented in Table 1. It is readily apparent that the water quality criterion differs with a requirement for higher concentrations of dissolved oxygen needed in a cold water stream with trout than a limited aquatic life stream with few, if any, fish present. In the case of waters designated as cold water or warm water, the actual effluent limitations needed to protect water quality are calculated taking into consideration several factors including, stream temperature, background dissolved oxygen concentration, effluent volume, and streamflow available for dilution. However, for the limited use waters, the effluent limitations are pre-determined as noted in Table 1 – a determination that was made considering the need for less oxygen in a limited use waterbody and the economics associated with the construction and operation of simple wastewater treatment plants that are capable of meeting the associated limitations.

Table 1. Use Designation/Dissolved Oxygen Matrix

Use Designation	Dissolved Oxygen Water Quality Criterion (in mg/L)	Dissolved Oxygen Minimum Allowed Effluent Concentration	Biochemical Oxygen Demand (BOD) Effluent Limitation
Cold Water	6*	Calculated	Calculated (Min. 5 mg/L)
Warm Water Sport	5	Calculated	Calculated (Min. 5 mg/L)
Warm Water Forage	5	Calculated	Calculated (Min. 5 mg/L)
Limited Forage Fish	3	4 mg/L	15 mg/L monthly average 30 mg/L daily maximum
Limited Aquatic Life	1	4 mg/L	20 mg/L monthly average 30 mg/L weekly average

* Dissolved Oxygen Criterion = 7 mg/L during spawning season

Why Revisions to these Rules are Being Proposed:

There is a need for the Department to update the stream classification list to support the WPDES program and to repackage the rules in a more logical, user-friendly format.

NR 104 was originally promulgated in October 1976 in response to Clean Water Act requirements and it has not been comprehensively updated since. At that time, waters were listed that the Department believed were unable to meet the standards for a diverse fish and aquatic life community, primarily due to natural conditions. This enabled the Department to establish effluent limitations in a fair, efficient manner while providing a level of scientifically defensible water quality protection commensurate with economic and cultural reality. Several dozen stream reaches were classified at that time and specifically listed in NR 104.

Since that original publication, Department staff have been able to conduct on-site evaluations of many additional waterbodies. Further, many of the classifications that were done in the 1970's have been reviewed using more contemporary measures. Based on this new information, many waterbodies must be added to NR 104 for the first time and there is a need to revise the use designation for several waterbodies to reflect a more accurate understanding of their potential biological use.

In the absence of this update, several WPDES permittees may be required to meet effluent limitations that are not reflective of their receiving water's appropriate use designation. This is a result of the "default" status of warm water sport or forage fish when a waterbody is not listed in NR 104. In those situations where the Department has recommended a waterbody receive a designation in one of the limited use subcategories, effluent limitations cannot reflect that recommendation until it is formally included in NR 104. As communities and/or industries plan for treatment plant upgrades, the Department must inform them that the more restrictive effluent limitations associated with the default designations will apply until NR 104 is revised. Adoption of the proposed changes contained in the attached draft rule will mitigate that problem.

Summary of the Proposed Rule Changes:

This rule package proposes revisions to chs. NR 102, 104, and 106 to update stream classifications.

Chapter NR 102, *Water Quality Standards for Wisconsin Surface Waters*, Language specific to the description of use designations and associated hydrologic categories has been moved from NR 104 to NR 102. The Department believes it is more appropriate to include the general descriptive language and associated non-toxic water quality criteria in NR 102 while reserving NR 104 for the actual listing of designated uses and site-specific variances to water quality standards for surface waters.

Chapter NR 104, *Uses and Designated Standards*. The purpose of this chapter is to designate uses for surface waters of the state and to identify those waters where variances to water quality standards have been formally recognized. As such, specific use designations, including cold water (not included in the Wisconsin Trout Stream Book), limited use waters, and site-specific variances to water quality standards are included in this chapter. The use designation tables have been reconstructed into a more logical and user-friendly format that allows quicker identification of the use designation for a particular waterbody. The changes also reflect the changes in the structure of the Department following the 1996 reorganization.

Chapter NR 106, *Procedures for Calculating Water Quality Based Effluent Limitations for Toxic and Organoleptic Substances Discharged to Surface Waters*. The title of this rule is proposed to be changed to "*Water Quality-Based Effluent Standards and Limitations for Discharges to Surface Water.*" A new Subchapter III has been created and is titled "*Effluent Limitations for Limited Aquatic Life Waters.*" The purpose of this subchapter is to specify how the department will determine water quality-based effluent limitations for substances discharged to *limited use* waters (formally designated as limited forage fish or limited aquatic life).

Effects on Existing Policy:

Adoption of these proposed rules will result in NR 104 being current with respect to use designations and variances in state surface waters.

Prior Board Actions:

The Board adopted the rules on October 1, 1976 with several specific minor amendments in subsequent revisions. In August 1998, the Board approved a request to conduct public hearings on a proposed rule that included revisions to use designations and the Department's thermal water quality standards. Due to concerns with the proposed thermal standards, the stream classification rules were not advanced beyond the public hearing process. In March 2001, the Board requested more information from Department staff before deciding whether or not to approve a request to conduct public hearings on proposed stream classification rules contained in the attached package.

Who Will be Impacted by the Proposed Rule

Local governments with publicly owned treatment works (POTWs) and industries may have been affected by the proposed changes. Expenditures may have been required to expand treatment plant upgrading due to more stringent discharge limits associated with a higher quality receiving water use designation. In those cases, facilities have already been built and are operating at levels that meet the requirements in these rules.

There are also facilities that may be considered for less stringent effluent limitations when the designated use of their receiving waters are formally promulgated. This would be the situation for a permittee whose effluent limitations are currently dictated by the default designation versus a more appropriate *limited use* designation of limited forage fish or limited aquatic life.

For summary purposes, the proposed rule contains the following use designation changes from the existing rule:

Table 2. Summary of Propose Use Designation Changes in NR 104.

Proposed Change to Use Designation	Number of Waterbodies	Description of Change
New Listing as <i>Limited Aquatic Life (LAL)</i>	71	These listings are for streams that have been classified as LAL and the listings have not been promulgated. Facilities have been planned and built to meet limits associated with these stream classifications.
New Listing as <i>Limited Forage Fish (LFF)</i>	23	These listings are for streams that have been classified as LFF and the listings have not been promulgated. Facilities have been planned and built to meet limits associated with these stream classifications.
Wetland as <i>Warm Water Sport (Seasonal)</i>	1	This listing recognizes that this wetland is used for spawning purposes by warm water sport fish during spring and may be inhabited by warm water sport fish during other times of high flow.
New Listing as <i>Cold Water</i>	4	These listings are for streams that have been classified as cold water and the listings have not been promulgated. Facilities have been planned and built to meet limits associated with these stream classifications.
Upgrade from <i>Limited Aquatic Life to Limited Forage Fish</i>	5	Biological survey data indicate that streams support a more diverse fish & aquatic life community than originally believed and should be reclassified to LFF. Treatment facilities have been planned and built to meet limits associated with the LFF classifications.

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Table 2. Summary of Propose Use Designation Changes in NR 104. (Continued)

Proposed Change to Use Designation	Number of Waterbodies	Description of Change
Upgrade from to <i>Limited Forage Fish</i> to <i>Warm Water Sport/Forage</i>	14	Biological survey data indicate that streams support a more diverse fish & aquatic life community than originally believed and should be reclassified to Warm Water Sport/Forage. Treatment facilities have been planned and built to meet limits associated with the Warm Water classifications.
Upgrade from <i>Limited Aquatic Life</i> to <i>Limited Forage Fish</i> (July-February) and <i>Warm Water Sport/Forage</i> (March-June)	1	The seasonal classification recognizes use of this stream by warm water sport fish during the high flow spring months. Facilities have been planned and built to meet limits associated with these stream classifications
Designation Dropped & Deleted	107	These are listings that are proposed to no longer be included in code due to facility closings, facility name changes, outfall locations being moved, and/or treatment systems being changed.

There will be insignificant additional work involved in drafting WPDES permits that include stream classification changes.

Environmental Assessment:

The department has made a preliminary determination that an environmental assessment is not necessary for the rules contained in this Green Sheet package.

Small Business Analysis:

Statewide costs associated with implementing revisions to stream classifications are difficult to determine due to the facility by facility nature of changes. Some stream classifications will become more restrictive and others less restrictive which may result in cost expenditures at some facilities and cost savings at others. In most, perhaps all, situations facilities are already complying with the limitations needed to meet the classifications contained in these revisions and in cases where facilities are not currently complying, facilities have been planned or are being constructed to comply with more stringent limits.

Fiscal Estimate — 2001 Session

- Original Updated
 Corrected Supplemental

LRB Number	Amendment Number if Applicable
Bill Number	Administrative Rule Number NR 102, NR 104, NR 106

Subject

Amendments to NR 102, 104, and 106 to reorganize and update stream classifications.

Fiscal Effect

State: No State Fiscal Effect

Check columns below only if bill makes a direct appropriation or affects a sum sufficient appropriation.

- | | |
|---|--|
| <input type="checkbox"/> Increase Existing Appropriation
<input type="checkbox"/> Decrease Existing Appropriation
<input type="checkbox"/> Create New Appropriation | <input type="checkbox"/> Increase Existing Revenues
<input type="checkbox"/> Decrease Existing Revenues |
|---|--|

- Increase Costs — May be possible to absorb within agency's budget.
 Yes No

 Decrease Costs

Local: No Local Government Costs

- | | | |
|---|--|--|
| 1. <input type="checkbox"/> Increase Costs
<input type="checkbox"/> Permissive
<input type="checkbox"/> Mandatory | 3. <input type="checkbox"/> Increase Revenues
<input type="checkbox"/> Permissive
<input type="checkbox"/> Mandatory | 5. Types of Local Governmental Units Affected:
<input type="checkbox"/> Towns <input type="checkbox"/> Villages <input type="checkbox"/> Cities
<input type="checkbox"/> Counties <input type="checkbox"/> Others
<input type="checkbox"/> School Districts <input type="checkbox"/> WTCS Districts |
| 2. <input type="checkbox"/> Decrease Costs | 4. <input type="checkbox"/> Decrease Revenues | |

Fund Sources Affected

- GPR FED PRO PRS SEG SEG-S

Affected Chapter 20 Appropriations

Assumptions Used in Arriving at Fiscal Estimate

Bill Summary: Ch. NR 102, 104, and 106 are being updated to make the rule current for new and revised stream classifications and to reorganize the rules.

Fiscal Estimate: There is no expected fiscal effect at the state or local level. The proposed amendments do not create additional regulatory workload beyond the requirements of the WPDES permit program.

Some stream classifications have become more restrictive and others less restrictive. This has resulted in cost expenditures at some facilities and cost savings at other facilities. It is important to stress that these revisions to Ch. NR 102, 104, and 106 do not force any facilities to upgrade or make operational changes to meet limits that may be associated with an upgraded stream classification. These changes are to update NR 104 with currently recognized and implemented stream classification s.

Long-Range Fiscal Implications

None

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Fiscal Estimate — 2001 Session

Page 2 Assumptions Narrative
Continued

LRB Number	Amendment Number if Applicable
Bill Number	Administrative Rule Number

Assumptions Used in Arriving at Fiscal Estimate – Continued

Fiscal Estimate Worksheet — 2001 Session
 Detailed Estimate of Annual Fiscal Effect

Original Updated
 Corrected Supplemental

LRB Number	Amendment Number if Applicable
Bill Number	Administrative Rule Number NR 102, NR 104, NR 106

Subject
 Amendments to NR 102, 104, and 106 to reorganize and update stream classifications.

One-time Costs or Revenue Impacts for State and/or Local Government (do not include in annualized fiscal effect):
 None

Annualized Costs:		Annualized Fiscal Impact on State Funds from:	
		Increased Costs	Decreased Costs
A. State Costs by Category			
State Operations — Salaries and Fringes		\$	\$ -
(FTE Position Changes)		(FTE)	(- FTE)
State Operations — Other Costs			-
Local Assistance			-
Aids to Individuals or Organizations			-
Total State Costs by Category		\$	\$ -
B. State Costs by Source of Funds			
GPR		\$	\$ -
FED			-
PRO/PRS			-
SEG/SEG-S			-
State Revenues	Complete this only when proposal will increase or decrease state revenues (e.g., tax increase, decrease in license fee, etc.)	Increased Revenue	Decreased Revenue
		\$	\$ -
GPR Earned			-
FED			-
PRO/PRS			-
SEG/SEG-S			-
Total State Revenues		\$	\$ -

Net Annualized Fiscal Impact

	<u>State</u>	<u>Local</u>
Net Change in Costs	\$ 0	\$ 0
Net Change in Revenues	\$ 0	\$ 0

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ORDER OF THE STATE OF WISCONSIN NATURAL RESOURCES BOARD
REPEALING AND AMENDING RULES

The Wisconsin Natural Resources Board proposes an order to repeal NR 102.03(8) to (10), NR 102.04(4)(e)1., NR 104 subch. I, NR 104.05 to NR 104.10, and NR 104 subch. II; to renumber and amend NR 102.04(4)(a) and NR 102.04(4)(a)1., NR 102.04(4)(e)2. and 3.; to amend NR 102.01(2) and (3), NR 102.04(1) and (2), NR 102.04(3)(intro.), (a), (d), and (e), NR 102.04(title), NR 102.04(5)(title), (b) and (6), and NR 106(title); to repeal and recreate NR 104.01 to 104.04; and to create NR 102 subch. I (title), NR 102.03(intro.), NR 102.03(1) and (2), NR 102.04(2m), NR 102.04(4)(b)3., (c) and (d), NR 102 subch. II, NR 106 subch. I (title), NR 106 subch. II (title), and NR 106 subch. III (title).

WT-35-98

Analysis Prepared by Department

of Natural Resources

Statutory authority: ss. 227.11(2), 281.15, and 283.13, Stats.
Statutes interpreted: ss. 281.15 and 283.13, Stats.

This proposal entails changes to chs. NR 102, 104, and 106 of the Wisconsin Administrative Code as follows:

Chapter NR 102 contains water quality standards for Wisconsin surface waters. The major change made to NR 102 includes relocation of standards and associated rule language from NR 104 to NR 102 since it is the more appropriate rule for language associated with specific designated use categories and water quality criteria necessary to support those uses for the surface waters of Wisconsin. A minor change has been to reserve Subchapter II for the thermal water quality standards currently being developed.

Chapter NR 104 contains the uses and designated standards for surface waters. The purpose of the revisions to this chapter is to update the lists of uses and designated standards to reflect current state of knowledge for those waters.

Chapter NR 106 contains procedures for the calculation of water quality-based effluent limitations for toxic and organoleptic (taste & odor) substances. Two additional subchapters have been added to this rule. Subchapter II has been reserved for the procedures for calculating water quality-based effluent limitations for the discharge of heat (i.e., temperature limitations) which are currently under development, and Subchapter III has been created to include effluent limitations for water designated as limited aquatic life waters in NR 104 have been transferred from NR 104 to NR 106 which is a more logical location.

SECTION 1. NR 102 subch. I (title) is created to read:

Subchapter I: General

SECTION 2. NR 102.01(2) and (3) are amended to read:

NR 102.01(2) The long-range goal of Wisconsin water quality standards is to permit the use of water resources for all lawful purposes. Water quality standards shall protect the public interest, which includes the protection of public health and welfare and the present and prospective uses of all waters of the state for public and private water supplies, propagation of fish and other aquatic life and wild and domestic animals, domestic and recreational purposes, and agricultural, commercial, industrial, and other legitimate uses. In all cases where the potential uses are in conflict, water quality standards shall protect the general public interest.

(3) Water quality standards serve as a basis for developing and implementing control strategies to achieve legislative policies and goals. Water quality standards are the basis for deriving water quality based effluent limitations and the limitations shall be determined to attain and maintain uses and criteria at the point of discharge, unless more stringent effluent limitations are established to protect downstream waters. Water quality standards also serve as a basis for decisions in other regulatory, permitting or funding activities that impact water quality.

SECTION 3. NR 102.03(intro.) is created to read:

NR 102.03(intro.) In this subchapter:

SECTION 4. NR 102.03(8) to (10) are repealed.

SECTION 5. NR 102.03(1) to (7) are renumbered NR 102.03(3) to (9).

SECTION 6. NR 102.03(1) and (2) are created to read:

NR 102.03(1) "Best available control technology" means that level of treatment established by the department under s. 283.13 (2) (b) 1., Stats., for categories and classes of point sources to be achieved by not later than July 1, 1983.

(2) "Best practicable control technology" means that level of treatment established by the department under s. 283.13 (2) (a), Stats., for categories and classes of point sources to be achieved by not later than July 1, 1977.

SECTION 7. NR 102.04(1) and (2) are amended to read:

NR 102.04 (title) Categories of surface water uses and criteria. (1) GENERAL. To preserve and enhance the quality of waters, standards surface water uses and criteria are established to govern water management decisions. Practices attributable to municipal, industrial, commercial, domestic, agricultural, land development or other activities shall be controlled so that all surface waters including the mixing zone and the effluent channel meet the following conditions at all times and under all flow and water level conditions:

(a) Substances that will cause objectionable deposits on the shore or in the bed of a body of water, shall may not be present in such amounts as to interfere with public rights in waters of the state.

(b) Floating or submerged debris, oil, scum or other material shall may not be present in such amounts as to interfere with public rights in waters of the state.

(c) Materials producing color, odor, taste or unsightliness shall may not be present in such amounts as to interfere with public rights in waters of the state.

(d) Substances in concentrations or combinations which are toxic or harmful to humans shall may not be present in amounts found to be of public health significance, nor shall may substances be present in amounts which are acutely harmful to animal, plant or aquatic life.

(2)(title) REVISED STANDARDS USES AND CRITERIA. It should be recognized that these standards uses and criteria will be revised as new information or advancing technology indicate that revisions are in the public interest. Water used for hydropower and commercial shipping depends mainly on quantity, depth and elevation; consequently, no specific quality standards criteria for these uses have been prepared.

SECTION 8. NR 102.04(2m) is created to read:

NR 102.04(2m) HYDROLOGIC CATEGORY. "For purposes of this chapter and chs. NR 103 and 104, all surface waters belong to one of the following hydrologic categories. Surface waters in any hydrologic category can be classified into any of the fish and aquatic life use subcategories:

(a) *Lakes or flowages*. This category includes bodies of water whose current is more or less stagnant or which lacks a unidirectional current.

(b) *Wetlands*. This category includes areas where water is at, near, or above the land surface long enough to be capable of supporting aquatic or hydrophytic vegetation and which have soils indicative of wet conditions.

Note: The uses and criteria applicable to wetlands are determined according to the provisions of ch. NR 103 unless specific provisions of ch. NR 106 apply to discharges from point sources.

(c) *Streams*. This category includes intermittent or continuous waters flowing in a natural or created drainage way, from a natural or created source, which may have a defined bed or bank. "Streams" includes wastewater effluent channels.

Note: The application of this classification system is not dependent on the navigability properties of the watercourse, but is dependent upon the quantity and quality of the surface water.

(d) *Wastewater effluent channels*. This category includes open discharge conveyances constructed primarily for the purpose of transporting wastes from a facility to a point of discharge. Drainage ditches, including those established under ch. 88, Stats., constructed primarily for the purposes of relieving excess waters on agricultural lands may not be construed as effluent channels. Modifications made to natural watercourses receiving wastewater effluents for the purpose of increasing or enhancing the natural flow characteristics of the stream may not be classified as effluent channels.

SECTION 9. NR 102.04(3)(intro.), (a), (d) and (e) are amended to read:

NR 102.04(3)(title) FISH AND OTHER AQUATIC LIFE USES. The department shall classify all All surface waters into shall belong to one of the fish and other aquatic life subcategories described in this subsection. Only those use subcategories identified in pars. (a) to (c) shall be considered suitable for the protection and propagation of a balanced fish and other aquatic life community as provided in the federal water pollution control act amendments of 1972, P.L. 92-500; 33 USC 1251 et seq. Where the department determines that the presence

of in-place pollutants, low natural streamflow, natural background conditions, or irretrievable cultural alterations interferes with the attainment of cold water communities, warm water sport fish communities, or warm water forage fish communities a limited forage fish community or limited aquatic life use designation established in par. (d) or (e) applies.

(a) *Cold water communities.* This subcategory 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 fish species. This subcategory includes, but is not restricted to, surface waters identified as trout water by the department of natural resources (Wisconsin Trout Streams, publication 6-3600 (80)) and those listed as coldwater in ch. NR 104.

(d) *Limited forage fish communities (Intermediate surface waters).* This subcategory includes surface waters of limited capacity and naturally poor water quality or habitat. These surface waters are capable of supporting only a limited community of forage fish and other aquatic life.

(e) *Limited aquatic life communities (Marginal surface waters).* This subcategory includes surface waters of severely limited capacity and naturally poor water quality or habitat. These surface waters are capable of supporting only a limited community of aquatic life.

SECTION 10. NR 102.04(4)(title) is amended to read:

NR 102.04 (4) STANDARDS CRITERIA FOR FISH AND AQUATIC LIFE.

SECTION 11. NR 102.04(4)(intro.) and (a) are amended and renumbered NR 102.04(4)(a) and 1., respectively.

NR 102.04(4)(a)(title) *Warm water sport fish communities and warm water forage fish communities.* Except for natural conditions, all waters classified for fish and aquatic life designated as warm water sport fish or warm water forage fish communities shall meet the following criteria:

1. Dissolved oxygen. Except as provided in par. (e) and s. NR 104.02 (3) NR 104.03, the dissolved oxygen content in surface waters designated as warmwater sport fish or warm water forage fish communities may not be lowered to less than 5 mg/L at any time.

SECTION 12. NR 102.04(4)(b) and (c) are renumbered NR 102.04(4)(a)2. and 3., respectively.

SECTION 13. NR 102.04(4)(d) is renumbered NR 102.04(4)(a)4. and amended to read:

NR 102.04(4)(a)4 Other substances. Unauthorized concentrations of substances are not permitted that alone or in combination with other materials present are toxic to fish or other aquatic life warm water sport fish or warm water forage fish communities. Surface waters shall meet the acute and chronic criteria as in or developed pursuant to ss NR 105.05 and 105.06 ch. NR 105. Surface waters shall meet the criteria which correspond to the appropriate fish and aquatic life subcategory warm water sport fish or warm water forage fish community for the surface water, except as provided in s. NR 104.02 (3).

SECTION 14. NR 102.04(4)(e) is renumbered NR 102.04(4)(b) and amended to read:

NR 102.04(4)(b)(title) Temperature and dissolved oxygen for cold waters *Cold water communities.* Streams classified as trout waters by the department of natural resources (Wisconsin Trout Streams, publication 6-3600 (80)) or as great lakes or cold Cold water communities shall meet the following criteria, and may not be

altered from natural background temperature and dissolved oxygen levels to such an extent that trout populations are the cold water community is adversely affected.

SECTION 15. NR 102.04(4)(e)1. is repealed.

SECTION 16. NR 102.04(4)(e)2. and 3. are renumbered NR 102.04(4)(b)1. and 2., respectively, and amended to read:

1. Dissolved oxygen in classified trout streams waters designated as cold water communities shall may not be artificially lowered to less than 6.0 mg/L at any time, nor shall may the dissolved oxygen be lowered to less 7.0 mg/L during the spawning season.

2. The dissolved oxygen in tributaries to the great lakes as tributaries used by stocked salmonids for spawning runs shall may not be lowered below natural background during the period of habitation.

SECTION 17. NR 102.04(4)(b)3., (c) and (d) are created to read:

NR 102.04(4)(b)3. Unauthorized concentrations of substances are not permitted that alone or in combination with other materials present are toxic to cold water communities. Surface waters shall meet the acute and chronic criteria in or developed pursuant to ch. NR 105. Surface waters shall meet the criteria which correspond to the appropriate cold water community for the surface water.

(c) *Limited forage fish communities.* All waters designated as limited forage fish communities shall meet the following criteria:

1. Dissolved oxygen may not be less than 3 mg/L.
2. Ammonia nitrogen (as N) at all points in the receiving water may not be greater than 3 mg/L during warm temperature conditions nor greater than 6 mg/L during cold temperatures.
3. The pH shall be within the range of 6.0 to 9.0.
4. The temperature at any point in the surface water may not exceed 120°F.
5. All other substances shall meet the criteria and requirements for toxic substances for limited forage fish communities specified in or developed pursuant to ch. NR 105.

(d) *Limited aquatic life communities:* 1. Applicability. The limited aquatic life subcategory may be applied to any hydrologic category, except that it shall be applied to all surface waters categorized as wastewater effluent channels.

2. All waters designated as limited aquatic life communities shall meet the following criteria:
 - a. Dissolved oxygen may not be less than 1 mg/L.
 - b. The pH shall be within the range of 6.0 to 9.0.
 - c. The temperature at any point in the surface water may not exceed 120°F.

d. All other substances shall meet the criteria and requirements for toxic substances for the limited aquatic life designation specified in or developed pursuant to ch. NR 105.

SECTION 18. NR 102.04(5)(title), (b) and (6) are amended to read:

NR 102.04(5)(title) STANDARDS CRITERIA FOR RECREATIONAL USE.

(b) *Exceptions.* Whenever the department determines, in accordance with the procedures specified in s. NR 210.06, that wastewater disinfection is not required to protect recreational uses, the recreational use criteria and classifications as criterion established in this subsection and in chs. NR 103 and 104 do not apply.

(6) STANDARDS FOR PUBLIC HEALTH AND WELFARE. All surface waters shall meet the human threshold and human cancer criteria specified in or developed pursuant to ss. NR 105.08 and 105.09, respectively. The applicable criteria vary depending on whether the surface water is used for public drinking water supplies and vary with the type of fish and other aquatic life subcategory use designation. All surface waters providing public drinking water supplies or classified designated as cold water communities, or warm water sport fish communities as described in sub. (3) shall meet the taste and odor criteria specified in or developed pursuant to s. NR 102.14.

SECTION 19. NR 102 subch. II is created to read:

Subchapter II - RESERVED

SECTION 20. NR 104, subch. I (title) is repealed.

SECTION 21. NR 104.01 to 104.04 are repealed and recreated to read:

NR 104.01 General. The purpose of this chapter is to establish uses and designated standards for surface waters of the state pursuant to s. 281.15(2)(b), Stats. Surface waters within the boundaries of the state shall meet the use classification for warm water sport fish communities established in s. NR 102.04(3)(b) and the criteria for warm water sport fish communities established in s. NR 102.04(4)(a), unless the water is otherwise listed in ss. NR 104.02 to 104.04 or in ss. NR 104.20 to 104.27. Additions or deletions from these listings may be made based upon the accumulation of information necessary to make the determination and in accordance with the requirements of ch. 227, Stats., for administrative code revision.

NR 104.02 Use designations applicable to state surface waters. Use designations applicable to state surface waters are listed in Table 1.

Table 1

COUNTY	FACILITY	RECEIVING WATER	REACH DESCRIPTION	CLASSIFICATION	EFFECTIVE DATES	REGION	GMU
Adams	Chula Vista	Wisconsin River Tributary	NW SE T14N R6E S28	LAL		WC	Central Wisconsin
Barron	Crystal Lake	Lightning Creek Tributary	A. From the WWTP outfall in the NW SW T35N R14W S35 to the road crossing on the section line in T34N R14W between S3 and S10 B. From the road crossing in T34N R14W between S3 and S10 to the confluence with Lightning Creek	LAL LFF		NO	Upper Chippewa
Barron	Cumberland and Seneca Foods, Cumberland	Hay River	From the outlet of Beaver Dam Lake to the road crossing in the SE T35N R13W S19	LFF		NO	Upper Chippewa
Barron	Lakeland SD - Barronett	Yellow River Intermittent Tributary	From the WWTP outfall in the NE NW T36N R13W S4 to the entrance to the unnamed lake in the NE SE T36N R13W S4	LFF		NO	Upper Chippewa
Barron	Stella Cheese a.k.a Twin Town Cheese	Hay River Tributary	From the WWTP outfall in the SE NE T33N R14W S12 to the town road crossing in the NE T33N R13W S8	LAL		NO	Upper Chippewa
Barron	Turtle Lake	Moon Creek, Diffuse Surface Water and Wetland Tributary to	A. From the WWTP outfall in the SW SW T34N R14W S32 to the south boundary of S32 B. Wetland Tributary to Moon Creek from the north boundary of T33N R14W S5 to the south boundary of that section	LAL LAL		NO	Upper Chippewa

COUNTY	FACILITY	RECEIVING WATER	REACH DESCRIPTION	CLASSIF - ICATION	EFFECTIVE DATES	REGION	GMU
Bayfield	Bell SD #1 - Cornucopia	Lake Superior, Noncontinuous Tributary to	From the WWTP outfall in the SW NW T51N R6W S26 to Lake Superior in the SE NE T51N R6W S27	LAL		NO	Lake Superior
Bayfield	Clover SD #1 - Herbster	Lake Superior, Diffuse Surface Water and Wetland Tributary to	From the WWTP outfall in the SE NE T50N R7W S7 to Lake Superior in the SW SW T50N R17W S5	LAL		NO	Lake Superior
Bayfield	Drummond SD	Long Lake Branch, Wetland and Intermittent Tributary to	A. Wetland from the WWTP outfall spreader in the SE SW and SW SE T45N R7W S28 to the outlet weir in the SE SW T45N R7W S28 B. Intermittent tributary from the wetland outlet weir to the entrance to Weso Lake	LAL LAL		NO	Lake Superior
Bayfield	Grand View	Twentymile Creek, Intermittent and Wetland Tributary to	From the WWTP outfall in the SW SE T45N R6W S15 to the confluence with Twentymile Creek	LAL		NO	Lake Superior
Bayfield	Pikes Bay SD	Lake Superior, Diffuse Surface Water Tributary to	From the WWTP outfall in the SE SE T50N R4W S22 to Lake Superior	LAL		NO	Lake Superior
Brown	Belgioioso Cheese - Pulaski, GP	Suamico River North Branch Unnamed Tributary	From SW SE T25N R19E S3 0.5 mi. to confluence with North Branch in NE SE T25N R19E S2	LAL		NE	Upper Green Bay
Brown	Denmark and Land O' Lakes	Neshota River Tributary	From Land O' Lakes outfall in NW SW T22N R22E S27 to the confluence with the Neshota River in the SW SW T22N R22E S23	LFF		NE	Lake Shore
Brown	Holland S.D. WWTP and White Clover Dairy - Holland	Plum Creek Tributaries	From White Clover Dairy @ CTH D & Town Rd to the confluence with Plum Creek	LAL		NE	Lower Fox
Brown	Morrison SD	Branch River Unnamed Tributary	From outfall at SW SW T21N R21E S6 to confluence with Branch River	LAL		NE	Lake Shore
Brown	Stella Foods - Denmark	West Twin River, Tributary to Kings Creek	From WWTP outfall in SW SE T23N R22E S22 to Michiel Road in SE SE T23N R22E S27	LAL		NE	Lake Shore
Brown	Wrightstown SD #1, Greenleaf	East River Drainage Ditch and Tributary	Ditch from the WWTP outfall in the SW SW T21N R20E S5 to the tributary in the SW SW T21N R20E S5	LAL		NE	Lower Fox

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Brown	Wrightstown SD #2, Arthur Norgaard	Birch Creek	From the WWTP outfall in the SE NW T22N R20E S27 to the confluence with the East River	LAL		NE	Lower Fox
Buffalo	Dairyland Power Ash Disposal Site near Alma	Mississippi River, Intermittent Tributary to	Entire length in T21N R12W S19	LAL		WC	Black Buff Tremp
Buffalo	Nelson WWTP	Mississippi River, Wetland to the	Entire wetland at the outfall in T22N R10W S6 and S7	LAL WWSF	(At normal stage) (At high stage)	WC	Lower Chippewa
Burnett	Siren	Wetlands	Wetlands located in the W 1/2 of T38N R16W S18	LAL		NO	St. Croix
Burnett	Webster	Clam River Intermittent Tributary	From the WWTP outfall in the NE SW T39N R16W S16 to the confluence with the Clam River	LAL		NO	St. Croix
Calumet	Brillion WWTP	Black Creek (Buck Creek)	From the WWTP outfall in the NE NW T20N R20E S35 to Brillion Marsh	LAL		NE	Lake Shore
Calumet	Hilbert WWTP	Manitowoc River North Branch Tributary	From the WWTP outfall in the NE SW T19N R20E S5 to the confluence with the North Branch Manitowoc River	LFF		NE	Lake Shore
Calumet	New Holstein	Jordan Creek and Tributary - Pine Creek	A. Jordan Creek from its origin to Pine Creek B. Pine Creek upstream from Danes Road	LAL LFF		NE	Lake Shore
Calumet	Potter, Village	Manitowoc River North Branch Drainage Ditch	From the WWTP outfall in the SE NE T18N R20E S15 to the confluence with the North Branch Manitowoc River	LAL		NE	Lake Shore
Calumet	Sherwood WWTP	Manitowoc River North Branch Wetland Tributary	A. From the WWTP outfall to the wetland in the NE T20N R19E S29 B. Wetland in the T20N R19E from S29 through Sections 20 and 21	LAL LAL		NE	Lake Shore
Calumet	Stockbridge, Village	Mud Creek, Wetland and Tributary	A. Wetland and tributary from the wetland area to the confluence with Mud Creek B. From confluence with Mud Creek tributary to Lake Winnebago	LAL LFF		NE	Upper Fox
Calumet	Tecumseh Products, GP	Jordan Creek Tributary	Tributary from Tecumseh Products to Jordan Creek	LAL		NE	Lake Shore

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Calumet	White Clover Dairy - Sherwood Whey Plant	Kankapot Creek and Unnamed Tributary West	A. From the outfall in the NW SE T20N R18E S13 to crossing at Smidt Rd/Station 3 in the NW SE T19N R18E S13	LAL		NE	Lower Fox
			B. From Smidt Rd/Station 3 in the NW SE T19N R18E S13 to confluence with Fox River	LFF			
Calumet/ Brown	Forest Junction San. Dist.	Plum Creek Tributary	From the WWTP outfall in the NW SW T20N R20E S9, Calumet County to the convergence with the streams (rivulets) in the SW T21N R20E S31, Brown County	LAL		NE	Lower Fox
Chippewa	Manitou Camp	Wetland	Entire wetland in the SE NW T32N R8W S19	LAL		WC	Lower Chippewa
Chippewa	Northern Wisconsin Center	Chippewa River Wetland Tributary	N 1/2 SE T28N R8W S4	LFF		WC	Lower Chippewa
Clark	Chili WWTP	South Branch Yellow River Tributary	From the WWTP outfall in the SE NW T25N R1E S22 to the confluence with the South Branch Yellow River	LAL		WC	Central Wisconsin
Clark	Curtiss WWTP	East Fork Popple River Tributary	Wetland tributary in the W 1/2 of T29N R1E S32 to the NE NW T28N R1E S5	LAL		WC	Black Buff Tremp
Clark	Dorchester WWTP	North Fork Popple River Tributary	From the WWTP outfall in the SE NE T29N R1E S14 to the confluence with the North Fork Popple River	LFF	July - Feb	WC	Black Buff Tremp
				WWSF	Mar - June		
Clark	Stella Foods	McGrogan Creek	From CTH "X" to the confluence with the North Fork Eau Claire River	LFF		WC	Lower Chippewa
Columbia	Arlington WWTP	Goose Lake Tributary	From the WWTP outfall in the SE NW T10N R9E S24 to Goose Lake	LAL		SC	Lower Rock
Columbia	Friesland Village	Grand River Unnamed Tributary	From the WWTP outfall in the SW SW T13N R12E S15 to the Columbia - Green Lake County line	LAL		SC	Upper Fox
Columbia	Rio WWTP	Rocky Run Creek Tributary	From the WWTP outfall in the NE NE T11N R10E S1 to the confluence with Rocky Run Creek	LAL		SC	Lower Wisconsin
Dane	Blue Mounds WWTP	Williams Creek Tributary	From the WWTP outfall in the SW NW T6N R6E S7 to the east line of the NE SE T6N R5E S14	LFF		SC	Sugar Pecatonica
Dane	Cenex	Koshkonong Creek, Unnamed Tributaries to	A. From Nora Road downstream to the confluence with ditch 14-7	LAL		SC	Lower Rock
			B. Ditch 14-7 the entire length	LFF			

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Dane	Deerfield WWTP	Mud Creek Tributary	From the WWTP outfall in the SW SW T7N R12E S22 to the confluence with Mud Creek	LAL		SC	Lower Rock
Dane	Lake Mills WWTP	Rock Creek	From the WWTP outfall in the	LFF		SC	Upper Rock
Dane	Madison Metro Sewerage Commission	Oregon Branch, Ditch to the	From the WWTP aerator outfall in the SE NE T6N R10E S19 to the Oregon Branch	LAL		SC	Lower Rock
Dane	Oregon WWTP	Oregon Branch and Badfish Creek	A. From the WWTP outfall in the NW NE T5N R9E S12 to the confluence with the Madison Metro effluent ditch in the NW SE T5N R10E S6 B. From the confluence with the Madison Metro effluent ditch in the NW SE T5N R10E S6 to the confluence with the Rutland Branch C. Badfish Creek from the confluence with Rutland Branch and Oregon Branch to CTH "A"	LAL LFF LFF		SC	Lower Rock
Dane	Roxbury WWTP	Roxbury Creek (a.k.a. Blums Creek)	From the WWTP outfall in the SW SW T9N R7E S16 to the SW SE T9N R7E S17	LFF		SC	Lower Wisconsin
Dane	Sun Prairie WWTP	Koshkonong Creek	Koshkonong Creek from the NW NE T8N R11E S8 to CTH "T"	LAL		SC	Lower Rock
Dodge	Brownsville WWTP and Grande Cheese	Kummel Creek	From the WWTP outfall in the NW NE T13N R17E S8 to CTH "HH"	LFF		SC	Upper Rock
Dodge	Clyman WWTP	Dead Creek Tributary	From the WWTP outfall in the SW SE T10N R15E S15 to the confluence with Dead Creek	LAL LFF	through 09/30/2005 10/01/2005	SC	Upper Rock
Dodge	Hidden Meadows Mobile Home Park	Rock River Tributary	From the WWTP outfall in the SW SW T9N R16E S33 to the confluence with the Rock River	LAL		SC	Upper Rock
Dodge	Iron Ridge WWTP	Wildcat Creek Tributary	From the WWTP outfall in the NW NW T11N R16E S25 to the confluence with Wildcat Creek	LAL		SC	Upper Rock
Dodge	Juneau WWTP	Dead Creek and Tributary	A. From the WWTP outfall in the NE NE T11N R15E S33 to the confluence with the Clyman tributary in the NW NE T10N R15E S10 B. Dead Creek from the confluence with the Clyman tributary in the NW NE T10N R15E S10 to CTH "115"	LAL LFF		SC	Upper Rock

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Dodge	Lebanon SD	Baker Creek Tributary	From the WWTP outfall in the SE NE T9N R16E S17 to the confluence with Baker Creek	LAL		SC	Upper Rock
Dodge	Lomira WWTP	East Branch Rock River Tributary	From the WWTP outfall in the NW SE T13N R17E S22 to Soo Road	LFF		SC	Upper Rock
Dodge	Randolph WWTP	Beaver Creek Tributary	From the WWTP outfall in the SW NW T12N R13E S7 to the confluence with Beaver Creek	LFF		SC	Upper Rock
Door	Peninsula State Park	Door County Wetland	Wetland adjacent to the sewage disposal ponds in the NW 1/2 T31N R27E S16	LAL		NE	Lake Shore
Door	Sevastopol SD #1	Donlans Creek (Formerly Maple Creek) and Wetland to Dunes Lake	From the WWTP outfall in the SE NW T28N R27E S18 to the center of T28N R27E S19	LAL		NE	Lake Shore
Douglas	Camp Amnicon	Amnicon River, Diffuse Surface Water and Wetland Tributary to	From the WWTP outfall in the SE NE T49N R12W S33 to the confluence with the Amnicon River in the SW NW T49N R12W S34	LAL		NO	Lake Superior
Douglas	Duluth, Winnipeg, and Pacific	Pokegema River Tributary	From the WWTP outfall in the NW T48N R14W S17 to the confluence with the Pokegema River	LFF		NO	Lake Superior
Douglas	Lakehead Pipeline	Nemadji River, Diffuse Surface Water Tributary to	From the WWTP outfall in the NE SE T49N R14W S36 to the Nemadji River in the SE SE T49N R14W S36	LAL		NO	Lake Superior
Douglas	Maple Middle School	Bardon Creek	A. Bardon Creek above its confluence with the tributary in the NE NW T48N R11W S33 B. Bardon Creek from its confluence with the tributary in the NE NW T48N R11W S33 to STH 13	LAL LFF		NO	Lake Superior
Douglas	Murphy Oil Refinery	Newton Creek	From the outfall in the SW SE T49N R14W S25 to its mouth at Hog Island Inlet	LFF		NO	Lake Superior
Douglas	Northwestern High School	Bardon Creek and Tributary	A. From the WWTP outfall in the NE SE T48N R11W S34 to the confluence with Bardon Creek in the SE NE T48N R11W S28 B. From the confluence with the tributary in the NE NW T48N R11W S33 to STH 13	LAL LFF		NO	Lake Superior

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Douglas	Superior School District - Four Corners School	Copper Creek Intermittent Tributary	From the WWTP outfall in the NW SW T47N R14W S24 to the confluence with another tributary in the SW NE T47N R14W S23	LFF		NO	Lake Superior
Douglas	Superior, Village of	Pokegama River and Pokegama River Diffuse Surface Water Tributary	A. From the WWTP outfall in the SW SW T48N R14W S10 to the confluence with the Pokegama River B. Pokegama River from the above confluence to its mouth in Pokegama Bay	LAL LFF		NO	Lake Superior
Douglas	WDNR Pattison State Park	Black River, Diffuse Surface Water Tributary to	From the WWTP outfall in the NE SE T47N R14W S21 to the confluence with the Black River	LAL		NO	Lake Superior
Douglas		Superior Bay		CW		NO	Lake Superior
Douglas		Hog Island Inlet		CW		NO	Lake Superior
Dunn	Allied Processors, Inc	Tiffany Creek	Entire length of Tiffany Creek in Dunn County	CW		WC	Lower Chippewa
Dunn	Bullfrog Business Trout Farm	Unnamed Tributary to Wetland	From the outfall to the wetland in the SE SE T26N R12W S18 and the NE NE T26N R12W S19	LAL		WC	Lower Chippewa
Dunn	Elk Mound WWTP	Muddy Creek Wetland and Wetland Tributary	A. Wetland tributary from the WWTP outfall in the NE NE T29N R11W S34 to the town road between S33 and S34 B. Wetland east of the WWTP in the NE NE T29N R11W S34	LAL LFF LAL	June - Aug Sept - May	WC	Lower Chippewa
Eau Claire	Bush Brothers	Bridge Creek Unnamed Tributary	From the storm sewer outfall to its confluence with First Trestle Creek and Bridge Creek	LFF		WC	Lower Chippewa
Fond du Lac	Alto Dairy Co-Op - Alto	Rock River, Drainage Ditch and Tributary to	A. Ditch from the Alto Dairy Co-Op process water discharge outfall in the SE NE T14N R14E S23 to the tributary to the Rock River in the SE NE T14N R14E S23 B. Tributary from the SE NE T14N R14E S23 to the confluence with the Rock River	LAL LFF		NE	Upper Rock

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Fond du Lac	Brandon WWTP	Gallagher Marsh Drainage Ditch and Diffuse Surface Water to	A. Ditch from the WWTP outfall in the NW NW T15N R14E S36 to STH "49" in the SE NW T14N R14E S1	LAL		SC	Upper Rock
			B. Diffused surface water from STH "49" in the SE NW T14N R14E S1 to Gallagher Marsh	LAL			
Fond du Lac	Brandon WWTP	Brandon Tributary to Gallagher Marsh	From the WWTP outfall to Gallagher Marsh	LFF		NE	Upper Rock
Fond du Lac	Eden WWTP	DeNeveu Creek Tributary	From the WWTP outfall in the NW SE T14N R18E S8 to the confluence with DeNeveu Creek	LFF		SC	Upper Fox
Fond du Lac	Fairwater WWTP	Grand River Tributary	From the WWTP outfall in the NW NW T15N R14E S31 to the confluence with the Grand River	LAL		SC	Upper Fox
Fond du Lac	Mt. Calvary WWTP	Sheboygan River Tributary	From the WWTP outfall in the NW NW T16N R19E S28 to CTH "CCC"	LFF		NE	Sheboygan
Fond du Lac	Rosendale	West Branch of the Fond du Lac River Tributary	Tributary from Rosendale STP downstream to confluence with West Branch Fond du Lac River	LFF		NE	Upper Fox
Grant	Bagley WWTP	Mississippi River Tributary	From the WWTP outfall in the NE NE T5N R6W S20 to the confluence with the Mississippi River	LAL		SC	Grant-Platte
Grant	Dickeyville WWTP	Indian Creek and Tributary	A. From the WWTP outfall in the NW NW T2N R2W S27 to the confluence with Indian Creek	LAL		SC	Grant-Platte
			B. Indian Creek from the confluence with the above tributary to a short distance below Indian Creek Road in the NW NW T2N R2W S29	LFF			
Grant	Fennimore WWTP	Gregory Branch of the Grant River	From the WWTP outfall in the SE SW T6N R2W S19 to the highway "61" bridge	LFF		SC	Grant-Platte
Grant	Foremost Farms, Lancaster	Pigeon Creek Tributary	From the headwaters in the NW T4N R3W S2 to the confluence with Pigeon Creek in the SW T4N R3W S11	LFF		SC	Grant-Platte
Grant	Jamestown SD #2	Menomonee River Tributary	From the WWTP outfall in the SW NE T1N R2W S28 to the confluence with the Menomonee River	LAL		SC	Grant-Platte
Grant	Kieler SD #1	Sinnipee Creek	From the WWTP outfall in the SE SE T2N R2W S33 to the spring in the NW NE T1N R2W S4	LAL		SC	Grant-Platte

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Grant	Lancaster WWTP	Pigeon Creek Tributary	From the WWTP outfall in the SW NE T4N R3W S10 to the confluence with Pigeon Creek	LFF		SC	Grant-Platte
Grant	Livingston WWTP	Little Platte River	From the WWTP outfall in the NW SE T5N R1W S24 to New California Road	LFF		SC	Grant-Platte
Grant	Mount Hope WWTP	Little Grant River	From the WWTP outfall in the NW SE T6N R4W S28 to a westerly tributary in the SE NW T5N R4W S5	LFF		SC	Grant-Platte
Grant	Orchard Manor	Austin Branch, Dry Run to	From the WWTP outfall in the SE NE T4N R3W S14 to the confluence with the Austin Branch	LAL		SC	Grant-Platte
Grant	Patch Grove WWTP	Grant River, Tributary to the Blake Fork of the	From the WWTP outfall in the SW SE T5N R5W S4 to a westerly tributary in the SE NE T5N R5W S16	LFF		SC	Grant-Platte
Grant	Potosi WWTP	Wetland	Wetland located in the NE T2N R2E S9	LAL		SC	Grant-Platte
Grant	Sinsinawa Dominicans Inc.	Menomonee River Tributary	From the WWTP outfall in the NW NW T1N R1W S31 to the Wisconsin-Illinois border	LAL		SC	Grant-Platte
Green	Brooklyn WWTP	Allen Creek	From the WWTP outfall in the SE NW T4N R10E S6 to the first town road bridge below CTH "T" in the SW SE T4N R10E S8	LFF		SC	Sugar-Pecatonica
Iowa	Dodgeville WWTP	Dodge Branch	From the WWTP outfall in the SE SE T6N R3E S27 to 1200 yards below STH 191	LFF		SC	Sugar-Pecatonica
Iowa	Highland WWTP	Big Spring Branch	From the WWTP outfall in the NE SE T7N R1E S29 to the northern section line of T7N R1E S19	LFF		SC	Lower Wisconsin
Iowa	Mineral Point WWTP	Brewery Creek	From the WWTP outfall in the NE SE T4N R3E S6 to the confluence with the Rock Branch	LAL	through 12/31/2002	SC	Sugar-Pecatonica
Iowa	Rewey WWTP	Williams-Rewey Branch Unnamed Tributary of the Pecatonica River	From the WWTP outfall in the SW NE T4N R1E S8 to the confluence with the Williams Branch of the Pecatonica River	LAL		SC	Sugar-Pecatonica
Iowa	Ridgeway WWTP	Smith-Conley Creek	From the WWTP outfall in the NW SE T6N R4E S14 to the northern section line of T6N R4E S23	LFF		SC	Sugar-Pecatonica

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Iron	Anderson SD - Whitecap Mountain	Alder Creek, Diffuse Surface Water and Wetland Tributary to	From the WWTP outfall in the NE NW T45N R1E S8 to Alder Creek in the SE NW T45N R1E S8	LAL		NO	Lake Superior
Iron	Knight SD, Town of - Iron Belt	Cemetery Creek, Effluent Ditch Tributary to	From the WWTP outfall in the SE NW T45N R1E S2 to the confluence with Cemetery Creek	LAL		NO	Lake Superior
Iron	Saxon	Vaughn Creek	From the WWTP outfall in the NE T46N R1W S1 to the west boundary of T46N R1W S1	LFF		NO	Lake Superior
Jefferson	Helenville WWTP	Deer Creek Tributary	From Grunners Road in the NE SE T6N R15E S3 to the confluence with an unnamed tributary in the SW SE T6N R15E S3	LFF		SC	Lower Rock
Jefferson	Ixonia SD	Rock River Tributaries	A. From the WWTP outfall in the NW SW T8N R16E S22 to the juncture with a tributary to the Rock River B. From the above juncture in the NE SW T8N R16E S28 to the confluence with the Rock River	LAL LAL LFF	 through 09/30/2007 10/01/2007	SC	Upper Rock
Jefferson	Spacious Acres Mobile Home Community	Duck Creek Tributary	From the WWTP outfall in the NE SW T7N R16E S27 to the confluence with Duck Creek	LAL		SC	Lower Rock
Jefferson	Sullivan WWTP	Duck Creek and Tributary	A. From the WWTP outfall in the NE NW T6N R16E S3 to the confluence with Duck Creek B. Duck Creek former stream channel from the effluent ditch downstream juncture with northerly drainage ditch in T6N R16E S5	LAL LFF		SC	Lower Rock
Juneau	Merrick Foods	Baraboo River Tributary	NW SE T14N R2E S21	LAL		WC	Central Wisconsin
Juneau	Pleasant Acres Nursing Home	Webster Creek Tributary	Ditch from the WWTP outfall in the NW SW T16N R2E S24 to the confluence with Webster Creek	LAL		WC	Central Wisconsin
Kenosha	Bong Recreation Area	Peterson Creek	From the WWTP outfall in the NW SE T2N R20E S16 to the wetland in the SE NE T2N R20E S30	LAL		SE	Fox (Illinois)
Kenosha	Brighton Dale County Park	Brighton Creek Wetland Tributary	From the WWTP outfall in the SW NE T2N R20E S10 to Brighton Creek at STH "142"	LAL		SE	Fox (Illinois)

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Kenosha	Bristol	Des Plaines River Tributary	Tributary from Bristol to the Des Plaines River	LAL WWSF	through 09/30/2005 10/01/2005	SE	Fox (Illinois)
Kenosha	Kenosha Beef International	Des Plaines River Center Branch Unnamed Tributary	A.From the WWTP outfall in the NE NW T2N R21E S26 to an unnamed private road in the NE NW T2N R21E S35 B.From above unnamed private road in the NE NW T2N R21E S35 to confluence with the Center Branch Des Plaines River	LAL LFF		SE	Fox (Illinois)
Kenosha	Pleasant Prairie S.D. #73-1	Des Plaines River Unnamed Tributary	From the WWTP outfall in the SW T1N R22E S33 to the beginning of the wetland in the SW NW T1N R22E S17	LAL		SE	Fox (Illinois)
Kenosha	Pleasant Prairie Util. District "D"	Pleasant Prairie Tributary	Pleasant Prairie Tributary from its origin to the Des Plaines River	LAL		SE	Fox (Illinois)
Kenosha	Rainbow Lake Manor	Mud Lake Wetland Tributary	From the WWTP outfall in the SW SW T1N R21E S32 to Mud Lake	LAL		SE	Root-Pike
Kewaunee	Packerland Whey Products	School Creek Unnamed Creek	School Creek upstream from confluence with Kewaunee River	LFF		NE	Lake Shore
Kewaunee	Thiry Daems Cheese Factory	Kewaunee River Unnamed Tributary	From Lowell Rd (SW NE T24N R23E S4) to confluence with Kewaunee River at SW SE T25N R23E S34	LAL		NE	Lake Shore
Kewaunee	Weyauwega Milk - Luxemburg	East Twin Unnamed Tributary	From the WWTP outfall to SE SE T23N R23E S27 to Sleepy Hollow Road in NE NE T23N R23E S26	LAL		NE	Lake Shore
La Crosse	Bostwick Mobile Home Park	Bostwick Creek	Entire length of Bostwick Creek in La Crosse County upstream from swamp road	CW		WC	Bad-Axe
La Crosse	Maple Grove Estates	Pleasant Valley Creek, Wetland Tributary to	From the WWTP outfall in the NE SW T16N R6W S8	LFF		WC	La Crosse
La Crosse	Ridgeview Inn	Bostwick Creek, Tributary (Tollefson Coulee) to	From the WWTP outfall in the NW NW T15N R6W S10 to the spring headwaters in the SW SW T15N R6W S3	LAL		WC	La Crosse
La Crosse	Rockland WWTP	La Crosse River Wetland Tributary	From the Rockland STP outfall in the N 1/2 NW T17N R5W S36 to a wetland and outlet channel to the confluence with the La Crosse River	LFF WWSF	July - Feb Mar - June	WC	La Crosse

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La Crosse	St. Joseph WWTP	Mormon Creek Intermittant Headwater	From the WWTP outfall in the NW NE T15N R6W S13 to the spring located in the SW NE T15N R6W S13 (one half mile)	LAL		WC	La Crosse
Lafayette	Cuba City WWTP	Coon Branch	A. From the WWTP outfall in the NW SW T2N R1E S31 to the first westerly tributary in the NW SE T1N R1E S5 B. From the first westerly tributary in the NW SE T1N R1E S5 to STH "11"	LAL LFF		SC	Grant-Platte
Lafayette	Shullsburg WWTP	Shullsburg Branch Tributary	From the WWTP outfall in the SW NE T1N R2E S3 to the confluence with the Shullsburg Branch	LAL		SC	Grant-Platte
Lincoln	Lincoln Hills School	North Branch Prairie River Tributary	From the WWTP outfall in the SE NE T33N R7E S20 to the confluence with the North Branch Prairie River	LAL		NO	Headwaters
Lincoln	Russell WWTP, Town of	North Branch of the Prairie River Ditch Tributary	Ditch from the WWTP outfall in the SE NW T33N R8E S29 to the North Branch of the Prairie River	LAL		NO	Headwaters
Lincoln	Tomahawk WWTP	Wisconsin River Tributary	Ditch from the WWTP outfall in the NW SE T34N R6E S10 to the confluence with the Wisconsin River	LAL		NO	Headwaters
Manitowoc	Kellnersville WWTP	Kriwaniks Creek Drainage Ditch	From the WWTP outfall in the SE NW T20N R23E S7 to the confluence with Kriwaniks Creek	LFF		NE	Lake Shore
Manitowoc	Kossuth Town SD #2 (uninc. Rockwood)	West Twin River Unnamed Tributary	From origin in the SE SE T20N R23E S26 to confluence with W. Twin River in the NE T20N R24E S30	LAL		NE	Lake Shore
Manitowoc	Maribel	West Twin River Unnamed Tributary	From the WWTP outfall in the SW SE T21N R22E S23 to CTH "R" (a.k.a. STH "141")	LAL		NE	Lake Shore
Manitowoc	Reedsville	Mud Creek	From the Reedsville STP downstream to the Manitowoc River	LAL		NE	Lake Shore
Manitowoc	Rockland SD	Mud Creek Drainage Ditch	From the WWTP outfall in the SE SE T19N R21E S27 to the confluence with Mud Creek	LAL		NE	Lake Shore
Manitowoc	Stock Manufacturing Corp & Dinner Club	Pine Creek Unnamed Tributary	From the WWTP outfall in the SE NE T18N R23E S21 to CTH "CR"	LAL		NE	Lake Shore

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Manitowoc	Valders WWTP	Manitowoc River Tributary	From the WWTP outfall in the SE NW T19N R22E S32 to the confluence with the Manitowoc River	LAL		NE	Lake Shore
Manitowoc	Whitelaw, Village WWTP	Hempton's Lake Tributary	From WWTP outfall in the SE NW T19N R22E S2 to Hempton's Lake	LAL		NE	Lake Shore
Marathon	Abbotsford WWTP	Elm Brook	A. From the headwaters of Elm Brook in the NW SW T29N R2E S31 to Lincoln Road in T28N R2E between S7 and S18	LAL		WC	Central Wisconsin
			B. From Lincoln Road in T28N R2E between S7 and S18 to the confluence with Dill Creek	LFF			
Marathon	Colby WWTP	Dill Creek	From the headwaters (TRS) to Cloverdale Road in T28N R2E between S29 and S32	LFF		WC	Central Wisconsin
Marathon	Edgar WWTP	Scotch Creek	From the WWTP outfall in the SW SW T28N R5E S7 to the confluence with Soda Creek	LFF		WC	Central Wisconsin
Marathon	Foremost Farms USA Coop - Abbotsford	Elm Brook	A. From the headwaters of Elm Brook in the NW SW T29N R2E S31 to Lincoln Road in T28N R2E between S7 and S18	LAL		WC	Central Wisconsin
			B. From Lincoln Road in T28N R2E between S7 and S18 to the confluence with Dill Creek	LFF			
Marathon	Mid Whey Powder	Scotch Creek	From the WWTP outfall in the SW SW T28N R5E S7 to the confluence with Soda Creek	LFF		WC	Central Wisconsin
Marathon	Milan WWTP and Foremost Foods	Randall Creek	A. Entire stream above the middle of T29N R3E S21	LAL		WC	Central Wisconsin
			B. From the middle of T29N R3E S21 to the confluence with the Big Eau Pleine River	LFF			
Marathon	Rozellville WWTP	Wild Creek and Tributary	A. Ditch from the WWTP outfall in the SE NW T26N R4E S16 to Wild Creek	LAL		WC	Central Wisconsin
			B. Wild Creek from the SE NE T26N R4E S17 to the confluence with the Little Eau Pleine River	LFF			
Marathon	Spencer WWTP	Little Eau Pleine River Tributary	From the WWTP outfall in the SW NE T26N R2E S8 to the confluence with the Little Eau Pleine River	LAL		WC	Central Wisconsin

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Marathon	Stratford WWTP	Big Eau Pleine River Tributary	From the WWTP outfall in the NE SE T27N R4E S19 to the confluence with Big Eau Pleine River	LAL		WC	Central Wisconsin
Marathon	Unity WWTP	Wetland of Little Eau Pleine River	Wetland in NW NE T27N R1E S1	LAL		WC	Central Wisconsin
Milwaukee	Milwaukee Grey Iron, 83rd Street, West Allis	Honey Creek	All existing concrete lined or enclosed reaches extending from Honey Creek Parkway Bridge in the SW SE T7N R21E S28 to the NW SW T6N R21E S23	LAL		SE	Milwaukee
Milwaukee	Briggs and Stratton, Froedert Malting Co, General Electric Co, Pressed Steel Tank Co	Kinnickinnic River (43rd Street Ditch) Unnamed Tributary and Storm Sewers	Upstream from the confluence with the Kinnickinnic River in the SE NE T6N R21E S12 to the headwaters in the NW SE T6N R21E S2	LAL		SE	Milwaukee
Milwaukee	MMSD c.s.o. downstream of 13th St. and Milwaukee Co. General Mitchell Field	Kinnickinnic River (Wilson Park Creek) Unnamed Tributary	A. All existing concrete lined or enclosed reaches from the confluence with Edgerton Channel in the SE NW T6N R22E S27 to 6th Street in the SE SW T6N R22E S20 B. All natural or earth lined reaches between 6th Street in the SE SW T6N R22E S20 to 20th Street in the NW NE T6N R22E S19 C. All existing concrete lined or enclosed reaches from 20th Street in the NW NE T6N R22E to the confluence with the Kinnickinnic River in the SE SE T6N R21E S12	LAL LFF LAL		SE	Milwaukee
Milwaukee		Kinnickinnic River	Upstream of 6th Street in the City of Milwaukee to the headwaters	LAL		SE	Milwaukee

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Milwaukee	GPs: Interstate Forging Ind Inc, Stainless Foundry & Eng'g Inc, Manders Premier Inc. GPs: Outboard Marine Corp,Wisc Color Press,Bardes Plastics, Univ'l Fds-Red Star Yeast	Lincoln Creek in Milwaukee County	A. All concrete lined or enclosed reaches upstream of the Teutonia Avenue bridge in the NE SE T8N R21E S36 to the 32nd Street bridge and drop structure in the NW NE T17N R21E S1	LAL		SE	Milwaukee
			B. All natural or earth lined channel reaches upstream of the 32nd Street bridge and drop structure in the NW NE T7N R21E S1 to the Hampton Avenue bridge in the NE NE T7N R21E S3	LFF			
			C. All concrete lined or enclosed reaches upstream of the Hampton Avenue bridge in the NE NE T21N R7E S3 to the drop structure located in the SE SE T8N R21E S26	LAL			
			D. All natural or earth lined reaches upstream of the drop structure in the SE SE T8N R21E S26 to the concrete lined reach in the SE SE T8N R21E S15	LFF			
			E. All concrete lined or enclosed reaches upstream of the SE SE T8N R21E S15 to the storm sewer headwater in the SE SE T8N R21E S15	LAL			
Milwaukee	GPs: Solvox Mfg., Inc.	Underwood Creek	All existing concrete lined or enclosed reaches from the confluence with the Menomonee River upstream to the drop structure located at the Waukesha - Milwaukee County line	LAL		SE	Milwaukee
Milwaukee	Lakeview Hospital, Zignego Ready Mix, GP	Underwood Creek (South Branch) Unnamed Tributary	All existing concrete lined or enclosed reaches from South Branch of Underwood Creek from NW NW T6N R21E S6 to the confluence with Underwood Creek	LAL		SE	Milwaukee
Milwaukee		Wilson Park Creek, Edgerton Channel, Unnamed Tributary	Upstream of the confluence with the Kinnickinnic River in the SE NW T6N R22E S27 to the headwaters at Nicholson Road in the NE SE T6N R22E S27	LAL		SE	Milwaukee
Monroe	Cashton WWTP	Little LaCrosse River Tributary	From the WWTP outfall in NW SW T15N R3W S30 to the SE SE T15N R4W S24	LAL		WC	Bad-Axe
Monroe	Kendall WWTP	Baraboo River	Entire length of Baraboo River in Monroe County	CW		WC	Central Wisconsin

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Monroe	Oakdale WWTP	Allen Creek Tributary	From the WWTP outfall in the NE NW T17N R1E S10 to the confluence with Allen Creek	LAL		WC	Lower Wisconsin
Oconto	Bond Food Products	Oconto River	From the mouth to the dam at Stiles	CW		NE	Upper Green Bay
Oconto	Lena WWTP and Stella Foods - Lena	Little River Tributary (a.k.a. Jones Creek)	A. From the headwaters to State Highway 141 B. From State Highway 141 to a point 1/2 mile downstream of Belgium Road in the NW NE T29N R20E S25	LAL LFF		NE	Upper Green Bay
Oconto	New Harvest Foods, Pulaski	Little Suamico River Tributary	From the stormwater outfall in the SW SW T26N R19E S31 to the confluence with the Little Suamico River	LAL		NE	Upper Green Bay
Oneida	Three Lakes WWTP	Townline Lake Wetland Tributary	From the WWTP outfall in the NE NE T38N R10E S12 to Townline Lake	LAL		NO	Headwaters
Outagamie	Bear Creek	Bear Creek (Embarrass)	From the Bear Creek STP to the Embarrass River	LFF		NE	Wolf
Outagamie	Dale SD #1	Rat River Tributary	A. From the WWTP outfall at Depot Road in T21N R15E between S27 and S28 to the confluence with a secondary tributary 1/2 mile south of Cedar Road at county line B. From the confluence with a secondary tributary 1/2 mile south of Cedar Road at county line to the confluence with the Rat River	LAL LFF		NE	Wolf
Outagamie	Hillshire Farms Co.	Wolf River Tributary	A. From the WWTP outfall in the NE NE T22N R15E S19 to a point 1/2 mile downstream B. From this 1/2 mile point downstream to the confluence with the Wolf River	LAL LFF		NE	Wolf
Outagamie	Seymour WWTP and Black Creek WWTP	Black Creek	From the Seymour WWTP outfall in the NW NW T24N R18E S32 to the confluence with the Shioc River	LFF		NE	Wolf
Outagamie	Stephensville WWTP	Bear Creek (Wolf)	From the WWTP outfall in the NE NW T22N R16E S20 to the confluence with the Wolf River	LFF		NE	Wolf
Ozaukee	Belgium and Lakeside Foods - Belgium	Onion River Tributary	From Belgium to the Onion River	LAL		SE	Sheboygan

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Pierce	Ellsworth WWTP	Isabelle Creek	A. Entire length in T26N R17W S17, S20, S21 and S28	LAL		WC	Lower Chippewa
			B. Entire length in the NW NW T26N R17W S33 and the NW 1/2 T25N R17W S4	LFF			
Polk	Amani SD	Diffuse Surface Water Drainageway and Wetland	A. From the WWTP outfall in the NW NE T32N R18W S19 for 0.75 miles to 1/4 mile east of S19 and S20 town road	LAL		NO	St. Croix
			B. Wetland located in SW T32N R18W S20 tributary to unnamed lakes in SE SW T32N R18W S20	LAL			
Polk	Clayton	South Branch of Beaver Brook Tributary	From the WWTP outfall in the NW T33N R15W S13 for 1.5 miles to the east-west town road in T33N R15W S11	LFF		NO	St. Croix
Polk	Clear Lake	Willow River Tributary	From the WWTP outfall in the NW SW T32N R15W S20 to the confluence with the Willow River	LFF		NO	St. Croix
Polk	Land O Lakes, Inc	Unnamed Lake, Effluent Ditch Tributary to	From the WWTP outfall in the SW T32N R15W S18 to the unnamed lake in the SW T32N R15W S18	LAL		NO	St. Croix
Polk	Luck	Wetland Tributary to Unnamed Stream	From the WWTP outfall in the NW SW T36N R17W S21 to the confluence with the unnamed stream just across the railroad tracks in the NW SW T36N R17W S21	LAL		NO	St. Croix
Portage	Junction City WWTP	Mill Creek Tributary	From the headwaters in the NW NE T24N R6E S3 to the confluence with Mill Creek	LAL		WC	Central Wisconsin
Price	Ogema SD #1	Wetlands	Wetlands located in the SW T34N R1E S13 and T34N R1E S14	LAL		NO	Upper Chippewa
Racine	Eagle Lake San. Dist.	Eagle Creek	A. From Eagle Lake to CTH "J"	LAL		SE	Fox (Illinois)
			B. From CTH "J" to the Fox River	LFF			
Racine	Fonk's Mobile Home Park - Hickory Haven	Des Plaines River Unnamed Tributaries	A. From the WWTP outfall in the NW SW T3N R21E S31 to the confluence with a second unnamed tributary in the SE SE T3N R21E S31	LAL		SE	Fox (Illinois)
			B. From the above confluence of two unnamed tributaries to the confluence with the Des Plaines River	LFF			

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Racine	Fonk's Mobile Home Park - Yorkville	Root River Canal East Branch	A. From CTH "E" in the SW SW T2N R21E S11 to STH "20" in the NW SE T3N R21E S11	LAL		SE	Root-Pike
			B. From STH "20" to the confluence with the West Branch Root River Canal in the NW SW T4N R21E S23	LFF			
Racine	Lakeview Neurological Rehabilitation Center	Goose Lake Branch Canal, Dover Ditch to the	From the WWTP outfall in the NW SE T3N R20E S8 to the confluence with the Goose Lake Branch Canal	LAL		SE	Fox (Illinois)
Racine	S.C. Johnson-Waxdale (GP)	Pike River North Branch Tributary (Waxdale Creek)	Waxdale Creek from its headwaters in T3N R22E S21 to confluence with Pike River North Branch in the SE SE T3N R22E S22	LFF		SE	Root-Pike
Racine	Union Grove	Root River Canal West Branch	A. From 67th Drive to CTH "C"	LAL		SE	Root-Pike
			B. From CTH "C" to STH "20"	LFF			
Racine	Yorkville Sewer Utility District #1	Ives Grove Ditch to Hoods Creek	From the WWTP outfall in the NW SW T3N R22E S7 to Hoods Creek	LAL	through 03/31/2002	SE	Root-Pike
				LFF	04/01/2002		
Rock	Clinton WWTP	Spring Brook and Spring Brook Tributary	From the WWTP outfall in the NW NW T1N R14E S17 to the township line between Clinton and Turtle Townships	LAL		SC	Lower Rock
Rock	Orfordville WWTP	Swan Creek and Tributary	A. From the WWTP outfall at STH "11" in T2N R10E S14 to the confluence with Swan Creek	LAL		SC	Sugar-Pecatonica
			B. Swan Creek from the confluence with the above tributary to Dicky Road	LFF			
Rusk	Flambeau Correctional Center	Hackett Creek, Wetland Tributary to	From the WWTP outfall in the SW NE T37N R3W S28 to the confluence with Hackett Creek	LAL		NO	Upper Chippewa
Rusk	Glen Flora	Deertail Creek, Wetland Tributary to	From the WWTP outfall in the NW SE T35N R4W S20 to the confluence with Deer Tail Creek	LAL		NO	Upper Chippewa
Rusk	Hawkins	Main Creek, South Fork of	From the WWTP outfall in the NW SE T35N R3W S14 to CTH "M"	LFF		NO	Upper Chippewa

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Rusk	Tony	Deertail Creek, Effluent Ditch, Wetland and Intermittent Tributary to	A. From the WWTP outfall in the SW T35N R5W S33 to the wetland	LAL		NO	Upper Chippewa
			B. Receiving wetland in the SW T35N R5W S33 to the intermittent tributary beginning at the town road at the south edge of T35N R5W S33	LAL			
			C. Intermittent tributary from the above town road to the confluence with Deer Tail Creek	LFF			
Rusk	Weyerhauser	Soft Maple Creek, Wetland and Intermittent Tributary to	A. Wetland from the WWTP outfall in the NE SW T34N R8W S19 to the town road crossing in the NW SE T34N R8W S19	LAL		NO	Upper Chippewa
			B. Intermittent tributary from the town road crossing in the NW SE T34N R8W S19 to CTH "F"	LAL			
Rusk	WI Dairies Coop - Conrath	Main Creek Intermittent Tributary	From the outfall in the NE T33N R5W S19 to the confluence with Main Creek	LAL		NO	Upper Chippewa
Sauk		Baraboo River, Intermittent Tributary (Babbling Brook)	From origin in the NE SW T11N R6E S13 to railroad crossing below Lake St. in the NE SW T11N R6E S1	LAL	Aug - Oct	SC	Lower Wisconsin
				WWSF	Nov - July		
Sauk	Carr Valley Cheese	Carr Valley Branch Tributary	From the WWTP outfall in the NE NW T12N R3E S20 to the confluence with the Carr Valley Branch	LFF		SC	Lower Wisconsin
Sauk	Christmas Mountain SD	Spring Brook	Spring Brook and the intermittent tributaries downstream to the private drive above the Spring Brook Campground impoundment	LFF		SC	Lower Wisconsin
Sauk	Plain WWTP	Honey Creek Tributary	From the WWTP outfall in the SW SE T9N R4E S5 to the confluence with Honey Creek	LFF		SC	Lower Wisconsin
Sauk	Spring Green Golf Club, SD #2	Lowery Creek Tributary	From the WWTP outfall in the NW NW T8N R4E S30 to the confluence with Lowery Creek	LAL		SC	Lower Wisconsin
Shawano	Birnawood WWTP	Railroad Creek Drainage Ditch	A. From the WWTP outfall in the NE NE T28N R11E S7 to the first wetland	LAL		NE	Wolf
			B. From the first wetland to the confluence with Railroad Creek	LFF			

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Shawano	Krakow WWTP	Pensaukee River Drainage Ditch	From the WWTP outfall in the NW NE T26N R18E S1 downstream 50 feet to the confluence with the Pensaukee River	LAL		NE	Upper Green Bay
Sheboygan	Cedar Grove Village and Dean Foods Company, Cedar Grove	Barr Creek	From the Dean Foods Company WWTP outfall in the NE SE T13N R22E S24 to Lake Michigan	LAL LFF	through 12/31/2005 01/01/2006	SE	Sheboygan
Sheboygan	Lakeland College	Fischer Creek Tributary	From the Lakeland College STP outfall to the Jetzer Lake outlet	LAL WWSF	through 06/30/2002 07/01/2002	SE	Sheboygan
Sheboygan	Oostburg WWTP	Black River	From the Oostburg WWTP outfall in the NE NE T13N R22E S1 to the confluence with Lake Michigan	LFF		SE	Sheboygan
Sheboygan	Random Lake	Silver Creek	Silver Creek from Random Lake STP downstream to first crossing of Creek Road	LFF		SE	Milwaukee
Sheboygan	Sheboygan Co. Comprehensive Health Center	Onion River Tributary	Tributary upstream from the Onion River	LAL		SE	Sheboygan
St. Croix	Baldwin WWTP	Rush River and Tributary	A. From west end of sewage disposal pond to the confluence with the Rush River B. Rush River from the NE NE T29N R17W S35 to the NW SW T29N R17W S36	LFF LFF		WC	Lower Chippewa
St. Croix	Foremost Farms USA Co-op	Cady Creek Intermittant Headwater	From the WWTP outfall in the NE SE T28N R15W S10 downstream to STH "29"	LAL		WC	Lower Chippewa
St. Croix	Glenwood City WWTP	Tiffany Creek, Wetland Tributary to	Wetland tributary in the S 1/2 of T30N R15W S25 to Tiffany Creek	LAL		WC	Lower Chippewa
St. Croix	Hammond WWTP	Wetland	Entire wetland in the N 1/2 T29N R17W S28	LAL		WC	St. Croix
St. Croix	Kerr McGee Groundwater Remediation Site	Willow River Unnamed Tributary	From the stormwater outfall in the SE SW T31N R18W S36 to the confluence with the Willow River	LAL		WC	St. Croix
St. Croix	Roberts WWTP	Twin Lakes, East and West Basin	Twin Lakes in T29N R18W S28 and S29	LAL		WC	St. Croix
St. Croix	Wilson WWTP	Wilson Creek	From the WWTP outfall in the NW SW T29N R15W S35 to second railroad crossing in the NE SE T29N R15W S35	LAL	at normal flow	WC	St. Croix

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St. Croix		Kinnickinnic River	Kinnickinnic River mouth, 0.7 mile reach downstream from Devil's Den	WWSF		WC	St. Croix
Taylor	Gilman	Yellow River, Wetland Tributary to	From the WWTP outfall located in the NW SW T31N R4W S24 to the confluence with the Yellow River	LAL		NO	Upper Chippewa
Taylor	Lublin	North Fork of the Eau Claire River, Diffuse Surface Water and Wetland Tributary	From the WWTP outfall in the NE NW T30N R3W S23 to the confluence with the North Fork of the Eau Claire River in the SW SW T30N R3W S14	LAL		NO	Upper Chippewa
Taylor	Rib Lake	Sheep Ranch Creek	From the WWTP outfall in the SW SE T33N R2E S27 to the confluence with the Big Rib River	LFF		NO	Headwaters
Taylor	Stetsonville	West Branch Big Eau Pleine River and Effluent Ditch Tributary to	A. From the WWTP outfall in the NW SE T30N R2E S19 to the confluence with the West Branch Eau Pleine River B. From the above confluence to the confluence with a second tributary located in the NW SW T30N R2E S29	LAL LFF		NO	Headwaters
Vernon	Chaseburg WWTP	Coon Creek	Coon Creek in Vernon County between Hwy K and Hwy G	CW		WC	Bad-Axe
Vernon	Readstown WWTP	Kickapoo River, Old Channel of	Entire channel in the W 1/2 of T11N R3W S8	LAL		WC	Lower Wisconsin
Vernon	Stoddard WWTP	Wetland	Entire wetland located in the Coon Creek/Pool 8 Delta Complex in T14N R7W S28 and S32	LAL		WC	Bad-Axe
Vernon	Viroqua WWTP	Springville Branch of the Bad Axe River	From the WWTP outfall in the NW NW T13N R4W S31 to a spring in the SW SE T13N R5W S23	LAL		WC	Bad-Axe
Vernon	Westby WWTP and Westby Coop Creamery	North Fork Bad Axe River, Tributary to	From the WWTP outfall in the SW SW T14N R4W S29 to the SW SW T14N R5W S36	LAL		WC	Bad-Axe
Vilas	Land O'Lakes	Wisconsin River Tributary	A. From the headwaters in the SE NE T43N R10E S34 to an unnamed lake in the NW SE T42N R10E S2 B. Outlet from the unnamed lake in the NW SE T42N R10E S2 to the confluence with the Wisconsin River	LAL LFF		NO	Headwaters

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Vilas	Phelps WWTP	Deerskin River Tributary and Wetland	A. Wetland from the WWTP outfall in the NW NW T41N R11E S1 to STH "17"	LAL		NO	Headwaters
			B. Tributary from STH "17" to the road in T41N R11E between S11 and S14	LAL			
			C. From the road in T41N R11E between S11 and S14 to the confluence with the Deerskin River	LFF			
Walworth	Sharon	Little Turtle Creek	Little Turtle Creek from Sharon STP downstream to Rock-Walworth county line	LAL		SE	Lower Rock
Walworth	Wisconsin DOT Rest Area #36	Sugar Creek Unnamed Tributary	From the WWTP outfall in the SE NW T3N R17E S11 to confluence with Sugar Creek	LAL		SE	Fox (Illinois)
Washington	Slinger WWTP	Rubicon River Unnamed Tributary	From the WWTP outfall in the NW SW T10N R19E S18 to the confluence with a second unnamed tributary in the SE SW T10N R18E S13	LAL		SE	Upper Rock
Waukesha	New Berlin High School	Poplar Creek	A. From the treatment plant outfalls downstream to the Chicago & Northwestern railroad bridge	LAL		SE	Fox (Illinois)
			B. From the railroad bridge downstream to the confluence of the Fox River	LFF			
Winnebago	Larsen Winchester SD	Arrowhead River and Drainage Ditch	A. Ditch from the WWTP outfall in the SE SW T20N R16E S19 to the Arrowhead River	LAL		NE	Wolf
			B. Arrowhead River from the section line between S19 and S30 in T20N R16E to a point 1/2 mile upstream from STH "110" in the SE NW T20N R15E S36	LAL			
			C. From the SE NW T20N R15E S36 downstream to CTH "M"	LFF			
Winnebago	Ridgeway Country Club	Arrowhead River Tributary	From the Ridgeway Country Club to the confluence with the Arrowhead River originating at T20N R16E S23	LAL		NE	Wolf

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Wood	Arpin WWTP and Arpin Dairy	Hemlock Creek	A. Ditch from the Dairy outfall in the NE NW T24N R4E S28 to Hemlock Creek	LAL		WC	Central Wisconsin
			B. Hemlock Creek at Chicago and North Western Railroad in the NE SW T24N R4E S21 to the confluence with an unnamed tributary in the NE NW T24N R4E S26	LAL			
			C. From the confluence with an unnamed tributary to the Vesper Dam	LFF			
Wood	Auburndale WWTP	Little Bear Creek Tributary	A. From the WWTP outfall in the NE SE T25N R4E S23 to the confluence with a tributary of Little Bear Creek in the NW SW S24	LAL		WC	Central Wisconsin
			B. Little Bear Creek from the confluence with the above tributary to CTH "H" in the NW NW T25N R5E S16	LFF			
Wood	Beatrice Cheese	Squaw Creek	A. From the WWTP outfall at Peach Avenue downstream to the confluence with an unnamed tributary in the NW SE T25N R3E S2	LAL		WC	Central Wisconsin
			B. From the NW SE T25N R3E S2 to the confluence with the Little Eau Pleine River	LFF			
Wood	Bethel Living Center	Yellow River Tributary	A. Ditch from the WWTP outfall in the SE NW T24N R3E S25 to a wetland tributary to the Yellow River in the NE NE T24N R3E S26	LAL		WC	Central Wisconsin
			B. Tributary at the confluence with the above ditch to Captain Lane in the SW NE T24N R3E S35	LFF			
			C. From Captain Lane in the SW NE T24N R3E S35 to the confluence with the Yellow River	LAL			
Wood	Marshfield WWTP	Mill Creek	From the WWTP outfall at Washington Avenue in the T25N R3E between S20 and S21 to the confluence with a tributary in the SW SW T24N R4E S1	LAL		WC	Central Wisconsin

COUNTY	FACILITY	RECEIVING WATER	REACH DESCRIPTION	CLASSIFICATION	EFFECTIVE DATES	REGION	GMU
Wood	Milladore WWTP	Mill Creek Tributary	From the WWTP outfall in the NW NE T24N R5E S12 to the confluence with Mill Creek	LAL		WC	Central Wisconsin
Wood	Nasonville Daity	Yellow River Tributary					
Wood	Rudolph WWTP	Wisconsin River Tributary	A. From the WWTP outfall in the SW NW T23N R6E S9 to the NE SW T23N R6E S26	LAL		WC	Central Wisconsin
			B. From the NE SW T23N R6E S26 to the confluence with the Wisconsin River	LFF			
Wood	Vesper WWTP	Hemlock Creek and Drainage Ditch	A. From the WWTP outfall in the SE NW T23N R4E S13 to Hemlock Creek	LAL		WC	Central Wisconsin
			B. Hemlock Creek from Vesper Dam to Dawes Creek	LFF			

NR 104.03 Other variances applicable to state surface waters. (1) The following surface waters in the southeast region shall meet the standards for fish and aquatic life except that the dissolved oxygen may not be lowered to less than 2 mg/L at any time, nor may the membrane filter fecal coliform count exceed 1,000 per 100 ml as a monthly geometric mean based on not less than 5 samples per month nor exceed 2,000 per 100 ml in more than 10% of all samples during any month:

COUNTY	GMU	SURFACE WATER	LOCATION
Kenosha	Root-Pike	Barnes creek	
Kenosha	Root-Pike	Pike creek	tributary of Pike river
Milwaukee	Milwaukee	Honey creek	
Milwaukee	Milwaukee	Indian creek	
Milwaukee	Milwaukee	Kinnickinnic river	
Milwaukee	Milwaukee	Lincoln creek	
Milwaukee	Milwaukee	Menomonee river	below the confluence with Honey creek
Milwaukee	Milwaukee	Underwood creek	below Juneau boulevard
Racine	Root-Pike	Pike river	
Waukesha	Fox (Illinois)	Underwood creek	below Juneau boulevard

2) The following surface waters in the southeast district shall meet the standards for fish and aquatic life except that the dissolved oxygen may not be lowered to less than 2 mg/L at any time, nor may the membrane filter fecal coliform count exceed 1,000 per 100 mL as a monthly geometric mean based on not less than 5 samples per month nor may the receiving water exceed 89°F at any time at the edge of the mixing zones established by the department under s. NR 102.05(3):

COUNTY	GMU	SURFACE WATER	LOCATION
Milwaukee	Milwaukee	Burnham canal	
Milwaukee	Milwaukee	Milwaukee river	downstream of North Avenue dam
Milwaukee	Milwaukee	South Menomonee canal	

(3) The following surface water in the northeast region shall meet the standards for fish and aquatic life except that the dissolved oxygen may not be lowered to less than 2 mg/L at any time:

COUNTY	GMU	SURFACE WATER	LOCATION
Oconto	Upper Green Bay	Oconto River	from the bridge in Oconto Falls to the county highway "J" bridge

NR 104.04 Public water supply use and criteria. The public water supply use and criteria shall be met in the following surface waters:

- (a) Lake Winnebago.
- (b) Fox river from Lake Winnebago downstream to the upper dam in the city of Appleton.
- (c) West branch Wolf river at Neopit.
- (d) Rainbow lake in Waupaca county.
- (e) Lake Nepco in Wood county.
- (f) Black river at Neillsville.
- (g) Town creek at Black River Falls.
- (h) Lake Lavina in Iron county.
- (i) Little Rib lake in Taylor county.

SECTION 22. NR 104.05 to 104.10 are repealed.

SECTION 23. NR 104 subch. II (title) is repealed

SECTION 24. Chapter NR 106(title) is amended to read:

CHAPTER NR 106

"PROCEDURES FOR CALCULATING WATER QUALITY-BASED EFFLUENT STANDARDS AND LIMITATIONS FOR TOXIC AND ORGANOLEPTIC SUBSTANCES, DISCHARGED DISCHARGES TO SURFACE WATER"

SECTION 25. NR 106, subch. I (title) is created to read:

Subchapter I - Effluent Limitations For Toxic and Organoleptic Substances

SECTION 26. NR 106, subch. II (title) is created to read:

Subchapter II - RESERVED

SECTION 27. NR 106, subch. III (title) is created to read:

Subchapter III - Effluent Limitations for Limited Aquatic Life Waters

NR 106.40 Purpose. The purpose of this subchapter is to specify how the department will determine water quality-based effluent limitations under s. 283.13(5), Stats., for substances discharged to waters which have been designated under the provisions of ch. NR 102 as limited fish and aquatic life surface waters. The description of these uses and associated criteria are found in ch. NR 102 and specific waters to which the criteria apply are found in ch. NR 104. Water quality-based effluent limitations are needed to assure attainment and maintenance of surface water quality standards as established in accordance with s. 281.15(1)(b), Stats., and as set forth in chs. NR 102 to 105.

NR 106.41 Applicability. This subchapter is applicable to point sources which discharge wastewater to waters designated under ch. NR 102 as limited fish and aquatic life uses. Effluent limitations specified in this subchapter shall be achieved by industrial, private and municipal dischargers as specified in a permit issued under s. 283.31, Stats., and when applicable, s. 283.33 or 283.35, Stats.

NR 106.42 General. (1) Water quality-based effluent limitations shall be established whenever categorical effluent limitations required under s. 283.13, Stats., are less stringent than necessary to achieve applicable water quality standards specified in chs. NR 102 to 105. Water quality-based effluent limitations for a point source shall be specified in the WPDES permit for that point source.

(2) In no case may the water quality-based effluent limitations imposed in a WPDES permit be less stringent than applicable categorical effluent limitations.

(3) The department shall establish limitations according to the methods specified in this subchapter.

NR 106.43 Calculation of water quality-based effluent limitations for discharges to limited fish and aquatic life use waters. The department shall establish water quality-based effluent limitations for point source dischargers whenever the limitations are necessary, as determined by any method in this subchapter, to meet the applicable water quality standards and secondary values as determined in chs. NR 102 to 105.

NR 106.44 Discharges to limited forage fish community waters. (1) LIMITATIONS FOR CONVENTIONAL POLLUTANTS. The effluent limitations listed in table 1 shall apply to all discharges to

surface waters listed as limited forage fish communities in ch. NR 104 unless site specific limitations are determined.

Table 1

Parameter	Monthly Average (mg/L)	Daily Maximum (mg/L)	Weekly Average (mg/L)	Other (mg/L)
BOD ₅	15	30	-	-
Total Suspended Solids	20	30	-	-
NH ₃ -N (May-October)	-	-	3	-
NH ₃ -N (November-April)	-	-	6	-
Dissolved Oxygen	-	-	-	4 (minimum)
Temperature				120°F

(2) LIMITATIONS FOR TOXIC AND ORGANOLEPTIC SUBSTANCES. In addition to the effluent limitations enumerated in table 1, effluent limitations for toxic and organoleptic substances shall apply to all discharges to surface waters listed as limited forage fish communities in ch. NR 104 and shall be determined according to the procedures in subch. I

NR 106.45 Discharges to limited aquatic life waters. (1) LIMITATIONS FOR CONVENTIONAL POLLUTANTS. The effluent limitations listed in table 2 shall apply to all discharges to surface waters listed as limited aquatic life in ch. NR 104 unless site specific limitations are determined.

Table 2

Parameter	Monthly Average (mg/L)	Weekly Average (mg/L)	Other (mg/L)
BOD ₅	20	30	-
Total Suspended Solids	20	30	-
Dissolved Oxygen	-	-	4 (minimum)
Temperature			120°F

(2) LIMITATIONS FOR TOXIC AND ORGANOLEPTIC SUBSTANCES. In addition to the effluent limitations enumerated in table 2, effluent limitations for toxic and organoleptic substances shall apply to all discharges to surface waters listed as limited aquatic life communities in ch. NR 104 and shall be determined according to the procedures in subch. I.

NR 106.46 Effluent limitations for discharges to streams with Q_{7.10} flows of 0.01 cfs or less. (1) This section applies to discharges to streams not listed in ch. NR 104 with Q_{7.10} flows of 0.01 cfs or less, except as established under sub. (4). Reference to Q_{7.10} flows of 0.01 cfs or less refer to natural flows in the absence of wastewater discharges.

(2) The effluent limitations specified in s. NR 106.44 shall apply whenever the department determines all of the following:

(a) The summation of $Q_{7.10}$ and annual average effluent flow, as defined in s. NR 106.06(4)(d)1 and 2, of all discharges to the stream is less than 0.50 cfs.

(b) A warmwater sport fish community, warmwater forage fish community or cold water community cannot be attained in the absence of effluent.

(c) More stringent effluent limitations are not required to protect more sensitive downstream fish and aquatic life or other uses.

(3) When the summation of $Q_{7.10}$ and annual average effluent flow, as defined in s. NR 106.06(4)(d)1. and 2., of all discharges to the stream equals or exceeds 0.50 cfs, effluent limitations established under s. NR 106.45 shall be replaced in the permit with effluent limitations necessary for warm water sport fish communities, unless the stream has been listed in ch. NR 104 in a different use subcategory.

(4) If the permittee establishes that the receiving stream cannot attain a limited forage fish use, the department shall promulgate a limited aquatic life use designation in ch. NR 104 and the limitations in s. NR 106.45 shall be established in the permit.

NR 106.47 Effluent limitations for discharges to wetlands. Whenever the department determines there will be a discharge or proposed discharge subject to a permit issued under ch. 283, Stats., directly to or directly affecting a wetland, the provisions of ch. NR 103 shall apply. Under this subsection, any discharge to a wetland shall meet effluent limitations which are not less stringent than those identified in s. NR 106.45, unless the department determines, in a plan approval issued under s. 281.41, Stats., or a permit issued pursuant to ch. 283, Stats., that more stringent limitations are needed to protect downstream waters, or through the procedures specified in ch. NR 103, determines that more stringent limitations are needed to protect the functional values of the wetland.

NR 106.48 Fill and draw lagoons. Effluents from fill-and-draw wastewater treatment lagoons or domestic waste stabilization ponds discharging to waters receiving a variance in this subchapter may be permitted to vary from the limitations specified in table 1 or 2 provided the following conditions are met:

1. The discharge occurs only during the spring and fall of the year when the flow in the receiving water is normally high, and the temperature is low. The rate of discharge may not exceed that specified in a permit under s. 283.31, Stats., or where no rate is indicated, the allowable discharge quantities shall be determined by the department based upon current evaluation of the receiving water.

2. In lieu of the previous conditions, the discharge from a fill-and-draw lagoon may occur at any time provided the rate does not exceed the assimilative capacity of the receiving water as specified in a permit under s. 283.31, Stats.

3. The dissolved oxygen in the effluent is maintained at a level greater than or equal to 4 mg/L, and the permitted rate of discharge shall be such that the dissolved oxygen and ammonia nitrogen criteria necessary to sustain fish and aquatic life are maintained in the stream during the period of discharge.

4. The effluent limitations do not exceed those established under ss. 283.13 and 283.19, Stats.

The foregoing rule was approved and adopted by the State of Wisconsin Natural Resources Board on _____.

The rule shall take effect on the first day of the month following publication in the Wisconsin administrative register as provided in s. 227.22(2(intro.)), Stats.

Dated at Madison, Wisconsin _____

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

BY _____
Darrell Bazzell, Secretary

(SEAL)