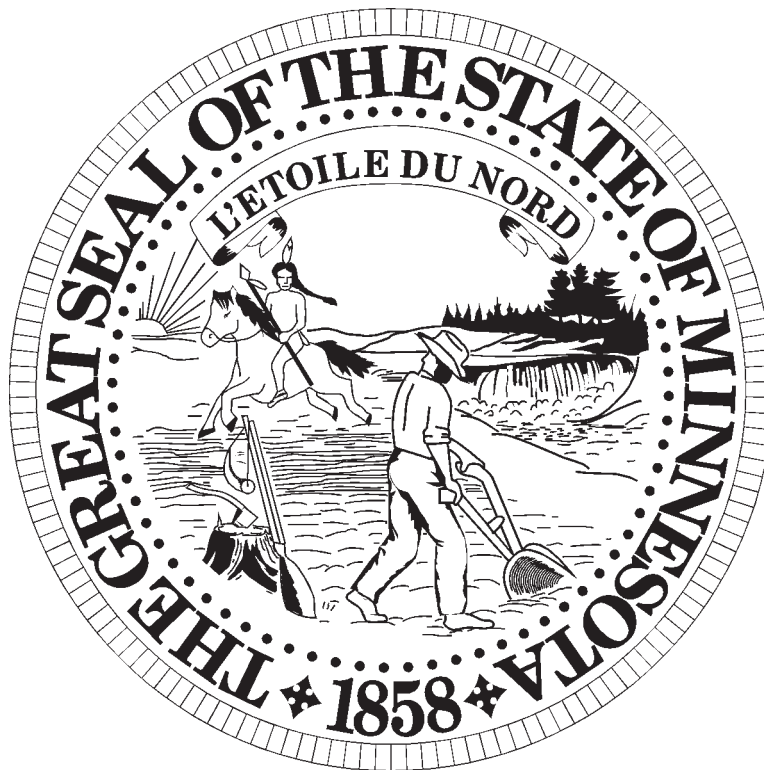


State of Minnesota

# State Register



**Rules, Executive Orders, Appointments,  
Commissioners' Orders, Revenue Notices, Official Notices, Grants,  
State Contracts & Loans, Non-State Bids, Contracts & Grants**

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# State Register

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- state grants and loans
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# Minnesota Rules: Amendments and Additions

## NOTICE: How to Follow State Agency Rulemaking in the State Register

The *State Register* is the official source, and only complete listing, for all state agency rulemaking in its various stages. State agencies are required to publish notice of their rulemaking action in the *State Register*. Published every Monday, the *State Register* makes it easy to follow and participate in the important rulemaking process. Approximately 80 state agencies have the authority to issue rules. Each agency is assigned specific **Minnesota Rule** chapter numbers. Every odd-numbered year the **Minnesota Rules** are published. The current 1999 set is a 13-volume bound collection of all adopted rules in effect at the time. Supplements are published to update this set of rules. Generally speaking, proposed and adopted exempt rules do not appear in this set because of their short-term nature, but are published in the *State Register*.

An agency must first solicit **Comments on Planned Rules** or **Comments on Planned Rule Amendments** from the public on the subject matter of a possible rulemaking proposal under active consideration within the agency (*Minnesota Statutes* §§ 14.101). It does this by publishing a notice in the *State Register* at least 60 days before publication of a notice to adopt or a notice of hearing, or within 60 days of the effective date of any new statutory grant of required rulemaking.

When rules are first drafted, state agencies publish them as **Proposed Rules**, along with a notice of hearing, or a notice of intent to adopt rules without a hearing in the case of noncontroversial rules. This notice asks for comment on the rules as proposed. Proposed emergency rules and withdrawn proposed rules are also published in the *State Register*. After proposed rules have gone through the comment period, and have been rewritten into their final form, they again appear in the *State Register* as **Adopted Rules**. These final adopted rules are not printed in their entirety in the *State Register*, only the changes made since their publication as Proposed Rules. To see the full rule, as adopted and in effect, a person simply needs two issues of the *State Register*, the issue the rule appeared in as proposed, and later as adopted. For a more detailed description of the rulemaking process, see the most current edition of the *Minnesota Guidebook to State Agency Services*.

The *State Register* features partial and cumulative listings of rules in this section on the following schedule: issues #1-13 inclusive; issues #14-25 inclusive; issue #26 cumulative for issues #1-26; issues #27-38 inclusive; issue #39, cumulative for issues #1-39; issues #40-51 inclusive; and issues #1-52 (or 53 in some years), cumulative for issues #1-52 (or 53). An annual subject matter index for rules was separately printed usually in August, but starting with Volume 19 now appears in the final issue of each volume. For copies or subscriptions to the *State Register*, contact Minnesota's Bookstore, 660 Olive Street (one block east of I-35E and one block north of University Ave), St. Paul, MN 55155 (612) 297-3000, or toll-free 1-800-657-3757.

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## Adopted Rules

A rule becomes effective after the requirements of *Minnesota Statutes* §§ 14.05-14.28 have been met and five working days after the rule is published in the *State Register*, unless a later date is required by statutes or specified in the rule. If an adopted rule is identical to its proposed form as previously published, a notice of adoption and a citation to its previous *State Register* publication will be printed. If an adopted rule differs from its proposed form, language which has been deleted will be printed with strikeouts and new language will be underlined. The rule's previous *State Register* publication will be cited.

**KEY: Proposed Rules** - Underlining indicates additions to existing rule language. ~~Strikeouts~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **Adopted Rules** - Underlining indicates additions to proposed rule language. ~~Strikeout~~ indicates deletions from proposed rule language.

## Department of Natural Resources

### Adopted Permanent Rules Relating to Drainage Projects Impacting State-Owned Lands in Consolidated Conservation Areas

The rules proposed and published at *State Register*, Volume 31, Number 45, pages 1541-1544, May 07, 2007 (31 SR 1541), are adopted with the following modifications:

#### 6115.1500 PURPOSE.

The purpose of parts 6115.1500 to ~~6115.1540~~ 6115.1550 is to establish criteria and procedures for determining drainage benefits to state-owned lands in consolidated conservation (con-con) areas administered under Minnesota Statutes, chapter 84A. Con-con areas are found in parts of Aitkin, Beltrami, Koochiching, Lake of the Woods, Mahnommen, Marshall, and Roseau Counties.

#### 6115.1510 DEFINITIONS.

Subpart 1. **Scope.** The terms used in parts 6115.1500 to ~~6115.1540~~ 6115.1550 have the meanings given in this part.

Subp. 6. **Drainage project.** "Drainage project" means a new drainage system, an improvement of a drainage system, an improvement of an outlet, a lateral, a repair, or a redetermination of benefits involving state-owned lands in consolidated conservation areas administered under Minnesota Statutes, chapter 84A, where:

Subp. 12. **Repair.** "Repair" means to restore all or a part of a drainage system as nearly as practicable to the same condition as originally constructed and subsequently improved, including resloping of ditches and leveling waste banks if necessary to prevent further deterioration, realignment to original construction if necessary to restore the effectiveness of the drainage system, and routine operations that may be required to remove obstructions and maintain the efficiency of the drainage system. "Repair" also includes:



# Adopted Rules

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- A. incidental straightening of a tile system resulting from the tile-laying technology used to replace tiles; and
- B. replacement of tiles with the next larger size that is readily available, if the original size is not readily available.

## 6115.1520 DRAINAGE PROJECTS.

Subp. 2. **Investigation.** After receiving notification and all documentation required under subpart 1, the commissioner must complete an investigation to determine whether the proposed drainage project benefits state-owned lands for the purposes for which they were established. In the investigation, the commissioner must:

Subp. 3. **Positive impacts.** Positive impacts to state-owned lands occur when a proposed drainage project allows the department or department's lessee to continue to use or enhances its ability to use drainage to achieve management purposes as provided in *Minnesota Statutes*, section 84A.55. ~~The commissioner may use any one of~~ The following criteria as are evidence that the department uses drainage to achieve a management purpose:

- C. the department petitions for a drainage project; ~~or~~
- D. the department outlets water from state-owned lands into a public ditch from an impoundment that is designed and used exclusively for wildlife management purposes;;
- E. timber production is improved by the project; or
- F. wildlife habitat is improved by the project.

Subp. 4. **Negative impacts.** Negative impacts to state-owned lands occur when a drainage project adversely affects the management of the land for its intended purposes. ~~The commissioner may use any one of~~ The following criteria as are evidence that a drainage project negatively impacts state-owned lands. The drainage project:

## 6115.1530 DETERMINING BENEFIT AND PARTICIPATION.

Subpart 1. **Commissioner's determination.** Following the investigation under part 6115.1520, for all drainage projects except those classified as repairs, the commissioner must determine whether the drainage project benefits state-owned lands and whether to participate in the project. In making the determination, the commissioner shall evaluate state-owned lands, on a parcel-by-parcel basis, with each parcel consisting of no more than 40 acres. A drainage project benefits a parcel of state-owned land only when the investigation shows that the positive impacts outweigh the negative impacts to that parcel of state-owned land. ~~If~~ Where the commissioner determines that the project ~~benefits~~ results in a net benefit to state-owned lands, the commissioner ~~may~~ shall participate in the project. Having determined to participate, the commissioner shall authorize the imposition of assessments for the project on the lands in any amounts the commissioner determines or may make lump sum contributions to the county or other public funds established for the payment of the cost of the project. The commissioner may also set conditions to modify the project before approving or joining a petition. Before cooperating in a project by joining in the petition or consenting to or approving it, the commissioner may identify conditions that must be satisfied or modifications that must be made in the proposed project if such conditions or modifications are necessary to ensure that the project will benefit state-owned lands in con-con areas.

Subp. 1a. **Commissioner's determination for repairs.** Following the investigation under part 6115.1520, for drainage projects considered repairs, the commissioner must determine whether the repair project benefits state-owned lands and whether to participate in the project. In making the determination, the commissioner, following consultation with drainage authorities, shall develop a table that identifies the benefits for each 40-acre parcel. A repair project benefits a parcel of state-owned land only when the investigation shows that the positive impacts outweigh the negative impacts to that parcel of state-owned land. Where the commissioner determines the project results in a net benefit to state-owned lands, the commissioner shall participate in the project. Having determined to participate, the commissioner shall authorize the imposition of assessments for the projects on the lands in any amounts the commissioner determines or may make lump sum contributions to the county or other public funds established for the payment of the cost of the project. The commissioner may also set conditions to modify the project before approving or joining the petition. Before cooperating in a project by joining in the petition or consenting to or approving it, the commissioner may identify conditions that must be satisfied or modifications that must be made in the proposed project if such conditions or modifications are necessary to ensure that the project will benefit state-owned lands in con-con areas.

Subp. 2. **Routine repair exception.** If a drainage authority's notification and documentation made under part 6115.1520, subpart 1, shows that the total cost of a proposed drainage repair under *Minnesota Statutes*, section 103E.705, is less than \$20,000 and the commissioner has previously determined the benefits to the state-owned lands within that drainage system, the commissioner may, without investigation, authorize the imposition of assessments for the proposed repair proportionate to the overall benefits to the state-owned lands as previously determined by the commissioner. If the commissioner authorizes assessments under this subpart, the commis-

sioner need not issue the findings and report required under part 6115.1540. Where the commissioner does not authorize an assessment for a repair under this subpart, the commissioner shall issue the findings and report as set forth in part 6115.1540.

**6115.1540 FINDINGS AND REPORT.**

Upon completion of the table described in part 6115.1530, subpart 1a, for repairs and following the investigation under part 6115.1520, the commissioner must provide the drainage authority with findings within 60 days after the commissioner has received all notifications and documentation required under part 6115.1520, subpart 1. For repairs over \$20,000, and upon completion of the table described in part 6115.1530, subpart 1a, the commissioner must provide the drainage authority with findings within 60 days. The findings must convey the results of the investigation and, state whether the commissioner will participate in the project, and state the reasons for the commissioner's decisions. The findings must identify which state-owned lands are benefited and which are not and set forth any conditions the commissioner attaches to the project and the amount of the contribution if the commissioner will participate.

**6115.1550 APPEAL.**

The findings and report of the commissioner under part 6115.1540 may be reviewed by a declaratory judgment action in the district court of the county wherein the proposed project, or any part thereof, would be undertaken. Judicial review under this part must be initiated within 60 days after receipt of the findings by the drainage authority.

## Pollution Control Agency Adopted Permanent Rules Relating to Water Quality

The rules proposed and published at *State Register*, Volume 32, Number 4, pages 87-217, July 23, 2007 (32 SR 87); and Volume 32, Number 5, pages 250-255, July 30, 2007 (32 SR 250), are adopted with the following modifications:

**7050.0220 SPECIFIC WATER QUALITY STANDARDS BY ASSOCIATED USE CLASSES.**

Subp. 2. **Explanation of tables.**

A. Class 1 domestic consumption (DC) standards are the United States Environmental Protection Agency primary (maximum contaminant levels) and secondary drinking water standards, as contained in Code of Federal Regulations, title 40, parts 141 and 143, as amended through July 1, ~~2004~~ 2006. The DC standards are listed in subparts 3a and 4a, except that individual pollutants, substances, or organisms in the treatment technological, disinfectants, microbiological, and radiological categories are not listed unless they are listed because a secondary drinking water standard or a standard for another use class exists.

Subp. 3a. **Cold water sport fish, drinking water, and associated use classes.** Water quality standards applicable to use Classes 1B, 2A, 3A or 3B, 4A and 4B, and 5 surface waters.

B. METALS AND ELEMENTS

	2A	2A	2A	1B	3A/3B	4A	4B	5
	CS	MS	FAV	DC	IC	IR	LS	AN

(7) Cadmium, total, µg/L

1.1	3.9	7.8	5	--	--	--	--
-----	-----	-----	---	----	----	----	----

Class 2A cadmium standards are hardness dependent. Cadmium values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 2, for examples at other hardness values and equations to calculate cadmium standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(8) Chromium +3, total, µg/L

207	1,737	3,469	--	--	--	--	--
-----	-------	-------	----	----	----	----	----

Class 2A trivalent chromium standards are hardness dependent. Chromium +3 values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 2, for examples at other hardness values and equations to calculate trivalent chromium standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

# Adopted Rules

(12) Copper, total, µg/L

9.8	18	35	1,000	--	--	--	--
-----	----	----	-------	----	----	----	----

(S)

Class 2A copper standards are hardness dependent. Copper values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 2, for examples at other hardness values and equations to calculate copper standards for any hardness value between 10 and not to exceed 400 mg/L.

(14) Lead, total, µg/L

3.2	82	164	NA	--	--	--	--
-----	----	-----	----	----	----	----	----

Class 2A lead standards are hardness dependent. Lead values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 2, for examples at other hardness values and equations to calculate lead standards for any hardness value between 10 and not to exceed 400 mg/L.

(18) Nickel, total, µg/L

158	1,418	2,836	--	--	--	--	--
-----	-------	-------	----	----	----	----	----

Class 2A nickel standards are hardness dependent. Nickel values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 2, for examples at other hardness values and equations to calculate nickel standards for any hardness value between 10 and not to exceed 400 mg/L.

(20) Silver, total, µg/L

0.12	2.0	4.1	100(S)	--	--	--	--
------	-----	-----	--------	----	----	----	----

Class 2A silver MS and FAV are hardness dependent. Silver values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 2, for examples at other hardness values and equations to calculate silver standards for any hardness value between 10 and not to exceed 400 mg/L.

(22) Zinc, total, µg/L

106	117	234	5,000	--	--	--	--
-----	-----	-----	-------	----	----	----	----

(S)

Class 2A zinc standards are hardness dependent. Zinc values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 2, for examples at other hardness values and equations to calculate zinc standards for any hardness value between 10 and not to exceed 400 mg/L.

## C. ORGANIC POLLUTANTS OR CHARACTERISTICS

2A	2A	2A	1B	3A/3B	4A	4B	5
CS	MS	FAV	DC	IC	IR	LS	AN

(2) Acetochlor, µg/L

1.7	3.6	86	173	--	--	--	--
-----	-----	----	-----	----	----	----	----

(10) Benzene (c), µg/L

5.4	5.1	4,487*	8,974*	5	--	--	--
-----	-----	--------	--------	---	----	----	----

Subp. 4a. **Cool and warm water sport fish, drinking water, and associated use classes.** Water quality standards applicable to use Classes 1B or 1C, 2Bd, 3A or 3B, 4A and 4B, and 5 surface waters.

## B. METALS AND ELEMENTS

2Bd	2Bd	2Bd	1B/1C	3A/3B	4A	4B	5
CS	MS	FAV	DC	IC	IR	LS	AN

(7) Cadmium, total, µg/L

1.1	33	67	5	--	--	--	--
-----	----	----	---	----	----	----	----

Class 2Bd cadmium standards are hardness dependent. Cadmium values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 3, for examples at other hardness values and equations to calculate cadmium standards for any hardness value between 10 and not to exceed 400 mg/L.



(8) Chromium +3, total, µg/L

207    1,737    3,469    --    --    --    --    --

Class 2Bd trivalent chromium standards are hardness dependent. Chromium +3 values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 3, for examples at other hardness values and equations to calculate trivalent chromium standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(12) Copper, total, µg/L

9.8    18    35    1,000    --    --    --    --  
(S)

Class 2Bd copper standards are hardness dependent. Copper values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 3, for examples at other hardness values and equations to calculate copper standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(14) Lead, total, µg/L

3.2    82    164    NA

Class 2Bd lead standards are hardness dependent. Lead values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 3, for examples at other hardness values and equations to calculate lead standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(18) Nickel, total, µg/L

158    1,418    2,836    --    --    --    --    --

Class 2Bd nickel standards are hardness dependent. Nickel values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 3, for examples at other hardness values and equations to calculate nickel standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(20) Silver, total, µg/L

1.0    2.0    4.1    100(S)    --    --    --    --

Class 2Bd silver MS and FAV are hardness dependent. Silver values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 3, for examples at other hardness values and equations to calculate silver standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(22) Zinc, total, µg/L

106    117    234    5,000    --    --    --    --  
(S)

Class 2Bd zinc standards are hardness dependent. Zinc values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 3, for examples at other hardness values and equations to calculate zinc standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

C. ORGANIC POLLUTANTS OR CHARACTERISTICS

<b>2Bd</b>	<b>2Bd</b>	<b>2Bd</b>	<b>1B/1C</b>	<b>3A/3B</b>	<b>4A</b>	<b>4B</b>	<b>5</b>
<b>CS</b>	<b>MS</b>	<b>FAV</b>	<b>DC</b>	<b>IC</b>	<b>IR</b>	<b>LS</b>	<b>AN</b>

(2) Acetochlor, µg/L

1.7 3.6    86    173    --    --    --    --

Subp. 5a. **Cool and warm water sport fish and associated use classes.** Water quality standards applicable to use Classes 2B, 2C, or 2D; 3A, 3B, or 3C; 4A and 4B; and 5 surface waters. See parts 7050.0223, subpart 5; 7050.0224, subpart 4; and 7050.0225, subpart 2, for Class 3D, 4C, and 5 standards applicable to wetlands, respectively.

B. METALS AND ELEMENTS

<b>2B,C&amp;D</b>	<b>2B,C&amp;D</b>	<b>2B,C&amp;D</b>	<b>3A/3B/3C</b>	<b>4A</b>	<b>4B</b>	<b>5</b>
<b>CS</b>	<b>MS</b>	<b>FAV</b>	<b>IC</b>	<b>IR</b>	<b>LS</b>	<b>AN</b>

# Adopted Rules

(5) Cadmium, total, µg/L

1.1            33            67            --            --            --            --

Class 2B, 2C, and 2D cadmium standards are hardness dependent. Cadmium values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 4, for examples at other hardness values and equations to calculate cadmium standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(6) Chromium +3, total, µg/L

207            1,737            3,469            --            --            --            --

Class 2B, 2C, and 2D trivalent chromium standards are hardness dependent. Chromium +3 values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 4, for examples at other hardness values and equations to calculate trivalent chromium standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(9) Copper, total, µg/L

9.8            18            35            --            --            --            --

Class 2B, 2C, and 2D copper standards are hardness dependent. Copper values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 4, for examples at other hardness values and equations to calculate copper standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(10) Lead, total, µg/L

3.2            82            164

Class 2B, 2C, and 2D lead standards are hardness dependent. Lead values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 4, for examples at other hardness values and equations to calculate lead standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(13) Nickel, total, µg/L

158            1,418            2,836            --            --            --            --

Class 2B, 2C, and 2D nickel standards are hardness dependent. Nickel values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 4, for examples at other hardness values and equations to calculate nickel standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(15) Silver, total, µg/L

1.0            2.0            4.1            --            --            --            --

Class 2B, 2C, and 2D silver MS and FAV are hardness dependent. Silver values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 4, for examples at other hardness values and equations to calculate silver standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

(17) Zinc, total, µg/L

106            117            234            --            --            --            --

Class 2B, 2C, and 2D zinc standards are hardness dependent. Zinc values shown are for a total hardness of 100 mg/L only. See part 7050.0222, subpart 4, for examples at other hardness values and equations to calculate zinc standards for any hardness value ~~between 10 and~~ not to exceed 400 mg/L.

C. ORGANIC POLLUTANTS OR CHARACTERISTICS

<b>2B,C&amp;D</b>	<b>2B,C&amp;D</b>	<b>2B,C&amp;D</b>	<b>3A/3B/3C</b>	<b>4A</b>	<b>4B</b>	<b>5</b>
<b>CS</b>	<b>MS</b>	<b>FAV</b>	<b>IC</b>	<b>IR</b>	<b>LS</b>	<b>AN</b>

(2) Acetochlor, µg/L

~~1.7~~ 3.6            86            173            --            --            --            --

**7050.0221 SPECIFIC WATER QUALITY STANDARDS FOR CLASS 1 WATERS OF THE STATE; DOMESTIC CONSUMPTION.**

## Subpart 1. General.

B. The Class 1 standards in this part are the United States Environmental Protection Agency primary (maximum contaminant levels) and secondary drinking water standards, as contained in *Code of Federal Regulations*, title 40, parts 141 and 143, as amended through July 1, 2004 2006. These Environmental Protection Agency drinking water standards are adopted and incorporated by reference with the exceptions in this item. The following standards are not applicable to Class 1 ground waters: the primary drinking water standards for acrylamide, epichlorohydrin, copper, and lead (treatment technique standards) and standards in the disinfectants and disinfection by-products categories. The following standards are not applicable to Class 1 surface waters: the primary drinking water standards for acrylamide, epichlorohydrin, copper, lead, and turbidity (treatment technique standards) and the standards in the disinfectants and microbiological organisms categories.

### 7050.0222 SPECIFIC WATER QUALITY STANDARDS FOR CLASS 2 WATERS OF THE STATE; AQUATIC LIFE AND RECREATION.

Subp. 2. **Class 2A waters; aquatic life and recreation.** The quality of Class 2A surface waters shall be such as to permit the propagation and maintenance of a healthy community of cold water sport or commercial fish and associated aquatic life, and their habitats. These waters shall be suitable for aquatic recreation of all kinds, including bathing, for which the waters may be usable. This class of surface waters is also protected as a source of drinking water. Abbreviations, acronyms, and symbols are explained in subpart 1.

Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
Acenaphthene	µg/L	20	HH	56	112	Tox
Acetochlor	µg/L	<del>1.7</del> 3.6	Tox	86	173	Tox
Acrylonitrile (c)	µg/L	0.38	HH	1,140*	2,281*	Tox
Alachlor (c)	µg/L	3.8	HH	800*	1,600*	Tox
Aluminum, total	µg/L	87	Tox	748	1,496	Tox
Ammonia unionized as N	µg/L	16	Tox	--	--	NA

The percent un-ionized ammonia can be calculated for any temperature and pH by using the following equation taken from Emerson, K., R.C. Russo, R.E. Lund, and R.V. Thurston, Aqueous ammonia equilibrium calculations; effect of pH and temperature. *Journal of the Fisheries Research Board of Canada* 32: 2379-2383 (1975):

$$f = \frac{1}{10^{(pk_a - pH)} + 1} \times 100$$

where:

f = the percent of total ammonia in the un-ionized state

$pk_a = 0.09 + (2730/T)$  (dissociation constant for ammonia)

T = temperature in degrees Kelvin ( $273.16^\circ$  Kelvin =  $0^\circ$  Celsius)

Anthracene	µg/L	0.035	Tox	0.32	0.63	Tox
Antimony, total	µg/L	5.5	HH	90	180	Tox
Arsenic, total	µg/L	2.0	HH	360	720	Tox
Atrazine (c)	µg/L	3.4	HH	323	645	Tox

# Adopted Rules

Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
Benzene (c)	µg/L	5.4 <u>5.1</u>	HH	4,487*	8,974*	Tox
Bromoform	µg/L	33	HH	2,900	5,800	Tox
Cadmium, total	µg/L	equation	Tox	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp(0.7852 [\ln(\text{total hardness mg/L})] - 3.490)$

The MS in µg/L shall not exceed:  $\exp(1.128 [\ln(\text{total hardness mg/L})] - 3.828)$

The FAV in µg/L shall not exceed:  $\exp(1.128 [\ln(\text{total hardness mg/L})] - 3.1349)$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total cadmium standards for five hardness values:

TH in mg/L	50	100	200	300	400
------------	----	-----	-----	-----	-----

Cadmium, total					
CS µg/L	0.66	1.1	2.0	2.7	3.4
MS µg/L	1.8	3.9	8.6	14	19
FAV µg/L	3.6	7.8	17	27	37

Carbon tetra- chloride (c)	µg/L	1.9	HH	1750*	3500*	Tox
Chlordane (c)	ng/L	0.073	HH	1200*	2400*	Tox
Chloride	mg/L	230	Tox	860	1720	Tox
Chlorine, total residual	µg/L	11	Tox	19	38	Tox

Chlorine standard applies to conditions of continuous exposure, where continuous exposure refers to chlorinated effluents that are discharged for more than a total of two hours in any 24-hour period.

Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
Chlorobenzene (Monochlorobenzene)	µg/L	20	HH	423	846	Tox
Chloroform (c)	µg/L	53	HH	1,392	2,784	Tox
Chlorpyrifos	µg/L	0.041	Tox	0.083	0.17	Tox
Chromium +3, total	µg/L	equation	Tox	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.819 [\ln(\text{total hardness mg/L})+1.561])$

The MS in µg/L shall not exceed:  $\exp.(0.819[\ln(\text{total hardness mg/L})+3.688])$

The FAV in µg/L shall not exceed:  $\exp.(0.819[\ln(\text{total hardness mg/L})+4.380])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total chromium +3 standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Chromium +3, total					
CS µg/L	117	207	365	509	644
MS µg/L	984	1,737	3,064	4,270	5,405
FAV µg/L	1,966	3,469	6,120	8,530	10,797

Chromium +6, total	µg/L	11	Tox	16	32	Tox
Cobalt, total	µg/L	2.8	HH	436	872	Tox
Color value	Pt/Co	30	NA	--	--	NA

Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
--	-------	----	--------------	----	-----	-------------------

Copper, total	µg/L	equation	Tox	equation	equation	Tox
---------------	------	----------	-----	----------	----------	-----

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.620[\ln(\text{total hardness mg/L})-0.570])$

The MS in µg/L shall not exceed:  $\exp.(0.9422[\ln(\text{total hardness mg/L})-1.464])$

The FAV in µg/L shall not exceed:  $\exp.(0.9422[\ln(\text{total hardness mg/L})-0.7703])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total copper standards for five total hardness values:

TH in mg/L	50	100	200	300	400
------------	----	-----	-----	-----	-----



# Adopted Rules

Copper, total						
CS µg/L	6.4	9.8	15	19	23	
MS µg/L	9.2	18	34	50	65	
FAV µg/L	18	35	68	100	131	
Cyanide, free	µg/L	5.2	Tox	22	45	Tox
DDT (c)	ng/L	0.11	HH	550*	1100*	Tox
1,2-Dichloroethane (c)	µg/L	3.5	HH	45,050*	90,100*	Tox
Dieldrin (c)	ng/L	0.0065	HH	1,300*	2,500*	Tox
Di-2-ethylhexyl phthalate (c)	µg/L	1.9	HH	--*	--*	NA
Di-n-octyl phthalate	µg/L	30	Tox	825	1,650	Tox

Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
--	-------	----	--------------	----	-----	-------------------

Endosulfan	µg/L	0.0076	HH	0.084	0.17	Tox
Endrin	µg/L	0.0039	HH	0.090	0.18	Tox
<i>Escherichia (E.) coli</i>	See below	See below	HH	See below	See below	NA

Not to exceed 126 organisms per 100 milliliters as a geometric mean of not less than five samples representative of conditions within any calendar month, nor shall more than ten percent of all samples taken during any calendar month individually exceed 1,260 organisms per 100 milliliters. The standard applies only between April 1 and October 31.

Ethylbenzene	µg/L	68	Tox	1,859	3,717	Tox
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Eutrophication standards for Class 2A lakes and reservoirs. See definitions in part 7050.0150, subpart 4, and ecoregion map in part 7050.0467.

Designated lake trout lakes in all ecoregions (lake trout lakes support natural populations of lake trout, *Salvelinus namaycush*):

Phosphorus, total	µg/L	12	NA	--	--	NA
Chlorophyll-a	µg/L	3	NA	--	--	NA
Secchi disk transparency	meters	No less than 4.8	NA	--	--	NA

Designated trout lakes in all ecoregions, except lake trout lakes:

Phosphorus, total	µg/L	20	NA	--	--	NA
Chlorophyll-a	µg/L	6	NA	--	--	NA
Secchi disk transparency	meters	No less than 2.5	NA	--	--	NA

Additional narrative eutrophication standards for Class 2A

lakes and reservoirs are found under subpart 2a.

Fluoranthene	µg/L	1.9	Tox	3.5	6.9	Tox
Heptachlor (c)	ng/L	0.10	HH	260*	520*	Tox
Heptachlor epoxide (c)	ng/L	0.12	HH	270*	530*	Tox
Hexachloro-benzene (c)	ng/L	0.061	HH	--*	--*	Tox

Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
---	-------	----	--------------------	----	-----	----------------------------

Lead, total	µg/L	equation	Tox	equation	equation	Tox
-------------	------	----------	-----	----------	----------	-----

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(1.273[\ln(\text{total hardness mg/L})-4.705])$

The MS in µg/L shall not exceed:  $\exp.(1.273[\ln(\text{total hardness mg/L})-1.460])$

The FAV in µg/L shall not exceed:  $\exp.(1.273[\ln(\text{total hardness mg/L})-0.7643])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total lead standards for five total hardness values:

TH in mg/L	50	100	200	300	400
------------	----	-----	-----	-----	-----

Lead, total					
CS µg/L	1.3	3.2	7.7	13	19
MS µg/L	34	82	197	331	477
FAV µg/L	68	164	396	663	956

Lindane (c) (Hexachlorocyclohexane, gamma)	µg/L	0.0087	HH	1.0*	2.0*	Tox
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Mercury, total in water	ng/L	6.9	HH	2,400*	4,900*	Tox
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Mercury, total in edible fish tissue	mg/kg ppm	0.2	HH	NA	NA	NA
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Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
---	-------	----	--------------------	----	-----	----------------------------

# Adopted Rules

Methylene chloride (c) (Dichloromethane)	µg/L	45	HH	13,875*	27,749*	Tox
Metolachlor	µg/L	23	Tox	271	543	Tox
Naphthalene	µg/L	65	HH	409	818	Tox
Nickel, total	µg/L	equation	Tox/HH	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS shall not exceed the human health-based standard of 297 µg/L. For waters with total hardness values less than 212 mg/L, the CS in µg/L is toxicity-based and shall not exceed:  $\exp.(0.846\ln[(\text{total hardness mg/L})+1.1645])$

The MS in µg/L shall not exceed:  $\exp.(0.846\ln[(\text{total hardness mg/L})+3.3612])$

The FAV in µg/L shall not exceed:  $\exp.(0.846\ln[(\text{total hardness mg/L})+4.0543])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total nickel standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Nickel, total					
CS µg/L	88	158	283	297	297
MS µg/L	789	1,418	2,549	3,592	4,582
FAV µg/L	1,578	2,836	5,098	7,185	9,164

Substance, Characteristic, or Pollutant (Class 2A)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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Oil	µg/L	500	NA	5,000	10,000	NA
Oxygen, dissolved	mg/L	See below	NA	--	--	NA

7.0 mg/L as a daily minimum. This dissolved oxygen standard requires compliance with the standard 50 percent of the days at which the flow of the receiving water is equal to the 7Q<sub>10</sub>.

Parathion	µg/L	0.013	Tox	0.07	0.13	Tox
Pentachlorophenol	µg/L	0.93	HH	equation	equation	Tox

The MS and FAV vary with pH and are calculated using the following equations:

The MS in µg/L shall not exceed:  $\exp.(1.005[\text{pH}]-4.830)$

The FAV in µg/L shall not exceed:  $\exp.(1.005[\text{pH}]-4.1373)$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For pH values less than 6.0, 6.0 shall be used to calculate the standard and for pH values greater than 9.0, 9.0 shall be used to calculate the standard.

Example of pentachlorophenol standards for five pH values:

pH su	6.5	7.0	7.5	8.0	8.5	
<hr/>						
Pentachlorophenol						
CS µg/L	0.93	0.93	0.93	0.93	0.93	
MS µg/L	5.5	9.1	15	25	41	
FAV µg/L	11	18	30	50	82	
<hr/>						
pH, minimum	su	6.5	NA	--	--	NA
pH, maximum	su	8.5	NA	--	--	NA
Phenanthrene	µg/L	3.6	Tox	32	64	Tox
Phenol	µg/L	123	Tox	2,214	4,428	Tox
Polychlorinated biphenyls, total (c)	ng/L	0.014	HH	1,000*	2,000*	Tox
<hr/>						
<b>Substance, Characteristic, or Pollutant (Class 2A)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
<hr/>						
Radioactive materials	NA	See below	NA	See below	See below	NA

Not to exceed the lowest concentrations permitted to be discharged to an uncontrolled environment as permitted by the appropriate authority having control over their use.

Selenium, total	µg/L	5.0	Tox	20	40	Tox
Silver, total	µg/L	0.12	Tox	equation	equation	Tox

The MS and FAV vary with total hardness and are calculated using the following equations:

The MS in µg/L shall not exceed:  $\exp.(1.720\ln[(\text{total hardness mg/L})-7.2156])$

The FAV in µg/L shall not exceed:  $\exp.(1.720\ln[(\text{total hardness mg/L})-6.520])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of silver standards for five total hardness values:

TH in mg/L	50	100	200	300	400	
<hr/>						
Silver, total						
CS µg/L	0.12	0.12	0.12	0.12	0.12	
MS µg/L	1.0	2.0	6.7	13	22	

# Adopted Rules

FAV µg/L	1.2	4.1	13	27	44		
Substance, Characteristic, or Pollutant (Class 2A)	Units	CS for CS	Basis	MS	FAV for MS, FAV	Basis	
Temperature	°C or °F	No material increase	NA	--	--	NA	
1,1,2,2 -Tetrachloroethane (c)	µg/L	1.1	HH	1,127*	2,253*	Tox	
Tetrachloroethylene (c)	µg/L	3.8	HH	428*	857*	Tox	
Thallium, total	µg/L	0.28	HH	64	128	Tox	
Toluene	µg/L	253	Tox	1,352	2,703	Tox	
Toxaphene (c)	ng/L	0.31	HH	730*	1,500*	Tox	
1,1,1 -Trichloroethane	µg/L	329	Tox	2,957	5,913	Tox	
1,1,2 -Trichloroethylene (c)	µg/L	25	HH	6,988*	13,976*	Tox	
2,4,6 -Trichlorophenol	µg/L	2.0	HH	102	203	Tox	
Turbidity value	NTU	10	NA	--	--	NA	
Vinyl chloride (c)	µg/L	0.17	HH	--*	--*	NA	
Xylene, total m,p,o	µg/L	166	Tox	1,407	2,814	Tox	
Zinc, total	µg/L	equation	Tox	equation	equation	Tox	

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+0.7615])$

The MS in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+0.8604])$

The FAV in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+1.5536])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of zinc standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Zinc, total					
CS µg/L	59	106	191	269	343
MS µg/L	65	117	211	297	379
FAV µg/L	130	234	421	594	758



# Adopted Rules

Subp. 3. **Class 2Bd waters.** The quality of Class 2Bd surface waters shall be such as to permit the propagation and maintenance of a healthy community of cool or warm water sport or commercial fish and associated aquatic life and their habitats. These waters shall be suitable for aquatic recreation of all kinds, including bathing, for which the waters may be usable. This class of surface waters is also protected as a source of drinking water. The applicable standards are given below. Abbreviations, acronyms, and symbols are explained in subpart 1.

<b>Substance, Characteristic, or Pollutant (Class 2Bd)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
Acenaphthene	µg/L	20	HH	56	112	Tox
Acetochlor	µg/L	<del>1.7</del> <u>3.6</u>	Tox	86	173	Tox
Acrylonitrile (c)	µg/L	0.38	HH	1,140*	2,281*	Tox
Alachlor (c)	µg/L	4.2	HH	800*	1,600*	Tox
Aluminum, total	µg/L	125	Tox	1,072	2,145	Tox
Ammonia un-ionized as N	µg/L	40	Tox	--	--	NA

The percent un-ionized ammonia can be calculated for any temperature and pH by using the following equation taken from Emerson, K., R.C. Russo, R.E. Lund, and R.V. Thurston, Aqueous ammonia equilibrium calculations; effect of pH and temperature. Journal of the Fisheries Research Board of Canada 32: 2379-2383 (1975):

$$f = 1 / (10^{(pK_a - pH)} + 1) \times 100$$

where: f = the percent of total ammonia in the un-ionized state

$pK_a = 0.09 + (2730/T)$  (dissociation constant for ammonia)

T = temperature in degrees Kelvin  
(273.16° Kelvin = 0° Celsius)

Anthracene	µg/L	0.035	Tox	0.32	0.63	Tox
Antimony, total	µg/L	5.5	HH	90	180	Tox
Arsenic, total	µg/L	2.0	HH	360	720	Tox
Atrazine (c)	µg/L	3.4	HH	323	645	Tox
Benzene (c)	µg/L	6.0	HH	4,487*	8,974*	Tox
Bromoform	µg/L	41	HH	2,900	5,800	Tox
<b>Substance, Characteristic, or Pollutant (Class 2Bd)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>

Cadmium, total	µg/L	equation	Tox	equation	equation	Tox
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The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.7852 \ln[(\text{total hardness mg/L}) - 3.490])$

The MS in µg/L shall not exceed:  $\exp.(1.128 \ln[(\text{total hardness mg/L}) - 1.685])$

The FAV in µg/L shall not exceed:  $\exp.(1.128 \ln[(\text{total hardness mg/L}) - 1.685])$

# Adopted Rules

hardness mg/L)]-0.9919)

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total cadmium standards for five hardness values:

TH in mg/L	50	100	200	300	400
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Cadmium, total

CS µg/L	0.66	1.1	2.0	2.7	3.4
MS µg/L	15	33	73	116	160
FAV µg/L	31	67	146	231	319

Carbon tetra- chloride (c)	µg/L	1.9	HH	1,750*	3,500*	Tox
Chlordane (c)	ng/L	0.29	HH	1,200*	2,400*	Tox
Chloride	mg/L	230	Tox	860	1,720	Tox
Chlorine, total residual	µg/L	11	Tox	19	38	Tox

Chlorine standard applies to conditions of continuous exposure, where continuous exposure refers to chlorinated effluents that are discharged for more than a total of two hours in any 24-hour period.

Substance, Characteristic, or Pollutant (Class 2Bd)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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Chlorobenzene (Monochlorobenzene)	µg/L	20	HH	423	846	Tox
Chloroform (c)	µg/L	53	HH	1,392	2,784	Tox
Chlorpyrifos	µg/L	0.041	Tox	0.083	0.17	Tox
Chromium +3, total	µg/L	equation	Tox	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.819\ln[(\text{total hardness mg/L})+1.561])$

The MS in µg/L shall not exceed:  $\exp.(0.819\ln[(\text{total hardness mg/L})+3.688])$

The FAV in µg/L shall not exceed:  $\exp.(0.819\ln[(\text{total hardness mg/L})+4.380])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total chromium +3 standards for five total

hardness values:						
TH in mg/L	50	100	200	300	400	
<hr/>						
Chromium +3, total						
CS µg/L	117	207	365	509	644	
MS µg/L	984	1,737	3,064	4,270	5,405	
FAV µg/L	1,966	3,469	6,120	8,530	10,797	
Chromium +6, total	µg/L	11	Tox	16	32	Tox
Cobalt, total	µg/L	2.8	HH	436	872	Tox
<b>Substance, Characteristic, or Pollutant (Class 2Bd)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>

Copper, total	µg/L	equation	Tox	equation	equation	Tox
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The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.620\ln[(\text{total hardness mg/L})-0.570])$

The MS in µg/L shall not exceed:  $\exp.(0.9422\ln[(\text{total hardness mg/L})-1.464])$

The FAV in µg/L shall not exceed:  $\exp.(0.9422\ln[(\text{total hardness mg/L})-0.7703])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total copper standards for five total hardness values:

TH in mg/L	50	100	200	300	400	
<hr/>						
Copper, total						
CS µg/L	6.4	9.8	15	19	23	
MS µg/L	9.2	18	34	50	65	
FAV µg/L	18	35	68	100	131	
Cyanide, free	µg/L	5.2	Tox	22	45	Tox
<b>Substance, Characteristic, or Pollutant (Class 2Bd)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>

DDT (c)	ng/L	1.7	HH	550*	1,100*	Tox
1,2-Dichloro ethane (c)	µg/L	3.8	HH	45,050*	90,100*	Tox
Dieldrin (c)	ng/L	0.026	HH	1,300*	2,500*	Tox

# Adopted Rules

Di-2-ethylhexyl phthalate (c)	µg/L	1.9	HH	--*	--*	NA
Di-n-octyl phthalate	µg/L	30	Tox	825	1,650	Tox
Endosulfan	µg/L	0.029	HH	0.28	0.56	Tox
Endrin	µg/L	0.016	HH	0.090	0.18	Tox
<i>Escherichia (E.) coli</i>	See	See	HH	See	See	NA
	below	below		below	below	

Not to exceed 126 organisms per 100 milliliters as a geometric mean of not less than five samples representative of conditions within any calendar month, nor shall more than ten percent of all samples taken during any calendar month individually exceed 1,260 organisms per 100 milliliters. The standard applies only between April 1 and October 31.

Ethylbenzene	µg/L	68	Tox	1,859	3,717	Tox
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Substance, Characteristic, or Pollutant (Class 2Bd)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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Eutrophication standards for Class 2Bd lakes, shallow lakes, and reservoirs. See definitions in part 7050.0150, subpart 4, and ecoregion map in part 7050.0467.

## Lakes, Shallow Lakes, and Reservoirs in Northern Lakes and Forest Ecoregion

Phosphorus, total	µg/L	30	NA	--	--	NA
Chlorophyll-a	µg/L	9	NA	--	--	NA
Secchi disk transparency	meters	Not less than 2.0	NA	--	--	NA

## Lakes and Reservoirs in North Central Hardwood Forest Ecoregion

Phosphorus, total	µg/L	40	NA	--	--	NA
Chlorophyll-a	µg/L	14	NA	--	--	NA
Secchi disk transparency	meters	Not less than 1.4	NA	--	--	NA

## Lakes and Reservoirs in Western Corn Belt Plains and Northern Glaciated Plains Ecoregions

Phosphorus, total	µg/L	65	NA	--	--	NA
Chlorophyll-a	µg/L	22	NA	--	--	NA
Secchi disk transparency	meters	Not less than 0.9	NA	--	--	NA

## Shallow Lakes in North Central Hardwood Forest Ecoregion

Phosphorus, total	µg/L	60	NA	--	--	NA
Chlorophyll-a	µg/L	20	NA	--	--	NA
Secchi disk transparency	meters	Not less than 1.0	NA	--	--	NA

## Shallow Lakes in Western Corn Belt Plains and Northern Glaciated Plains Ecoregions

Phosphorus, total	µg/L	90	NA	--	--	NA
Chlorophyll-a	µg/L	30	NA	--	--	NA
Secchi disk	meters	Not less	NA	--	--	NA

transparency than 0.7

Additional narrative eutrophication standards for Class 2Bd lakes, shallow lakes, and reservoirs are found under subpart 3a.

Substance, Characteristic, or Pollutant (Class 2Bd)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
Fluoranthene	µg/L	1.9	Tox	3.5	6.9	Tox
Heptachlor (c)	ng/L	0.39	HH	260*	520*	Tox
Heptachlor epoxide (c)	ng/L	0.48	HH	270*	530*	Tox
Hexachloro- benzene (c)	ng/L	0.24	HH	--*	--*	Tox
Lead, total	µg/L	equation	Tox	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(1.273\ln[(\text{total hardness mg/L})-4.705])$

The MS in µg/L shall not exceed:  $\exp.(1.273\ln[(\text{total hardness mg/L})-1.460])$

The FAV in µg/L shall not exceed:  $\exp.(1.273\ln[(\text{total hardness mg/L})-0.7643])$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total lead standards for five total hardness values:

TH in mg/L	50	100	200	300	400
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Lead, total					
CS ] µg/L	1.3	3.2	7.7	13	19
MS µg/L	34	82	197	331	477
FAV µg/L	68	164	396	663	956

Lindane (c) (Hexachlorocyclo- hexane, gamma-)	µg/L	0.032	HH	4.4*	8.8*	Tox
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Substance, Characteristic, or Pollutant (Class 2Bd)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
Mercury, total in water	ng/L	6.9	HH	2,400*	4,900*	Tox
Mercury, total in edible	mg/kg ppm	0.2	HH	NA	NA	NA



# Adopted Rules

fish tissue						
Methylene chloride (c) (Dichloromethane)	µg/L	46	HH	13,875*	27,749*	Tox
Metolachlor	µg/L	23	Tox	271	543	Tox
Naphthalene	µg/L	81	Tox	409	818	Tox
Nickel, total	µg/L	equation	Tox/HH	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS shall not exceed the human healthbased standard of 297 µg/L. For waters with total hardness values less than 212 mg/L, the CS in µg/L is toxicitybased and shall not exceed:  $\exp.(0.846\ln[(\text{total hardness mg/L})+1.1645])$

The MS in µg/L shall not exceed:  $\exp.(0.846\ln[(\text{total hardness mg/L})+3.3612])$

The FAV in µg/L shall not exceed:  $\exp.(0.846\ln[(\text{total hardness mg/L})+4.0543])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total nickel standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Nickel, total					
CS µg/L	88	158	283	297	297
MS µg/L	789	1,418	2,549	3,592	4,582
FAV µg/L	1,578	2,836	5,098	7,185	9,164

Substance, Characteristic, or Pollutant (Class 2Bd)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
Oil	µg/L	500	NA	5,000	10,000	NA
Oxygen, dissolved	mg/L	See below	NA	--	--	NA

5.0 mg/L as a daily minimum. This dissolved oxygen standard may be modified on a site-specific basis according to part 7050.0220, subpart 7, except that no site-specific standard shall be less than 5 mg/L as a daily average and 4 mg/L as a daily minimum. Compliance with this standard is required 50 percent of the days at which the flow of the receiving water is equal to the 7Q<sub>10</sub>.

Parathion	µg/L	0.013	Tox	0.07	0.13	Tox
Pentachlorophenol	µg/L	1.9	HH	equation	equation	Tox

The MS and FAV vary with pH and are calculated using the

following equations:

The MS in µg/L shall not exceed:  $\exp.(1.005[\text{pH}]-4.830)$

The FAV in µg/L shall not exceed:  $\exp.(1.005[\text{pH}]-4.1373)$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For pH values less than 6.0, 6.0 shall be used to calculate the standard and for pH values greater than 9.0, 9.0 shall be used to calculate the standard.

Example of pentachlorophenol standards for five pH values:

pH su	6.5	7.0	7.5	8.0	8.5	
<hr/>						
Pentachlorophenol						
CS µg/L	1.9	1.9	1.9	1.9	1.9	
MS µg/L	5.5	9.1	15	25	41	
FAV µg/L	11	18	30	50	82	
<hr/>						
pH, minimum	su	6.5	NA	--	--	NA
pH, maximum	su	9.0	NA	--	--	NA
Phenanthrene	µg/L	3.6	Tox	32	64	Tox
Phenol	µg/L	123	Tox	2,214	4,428	Tox
Polychlorinated biphenyls, total (c)	ng/L	0.029	HH	1,000*	2,000*	Tox
<hr/>						
<b>Substance, Characteristic, or Pollutant (Class 2Bd)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
<hr/>						
Radioactive materials	NA	See below	NA	See below	See below	NA

Not to exceed the lowest concentrations permitted to be discharged to an uncontrolled environment as permitted by the appropriate authority having control over their use.

Selenium, total	µg/L	5.0	Tox	20	40	Tox
Silver, total	µg/L	1.0	Tox	equation	equation	Tox

The MS and FAV vary with total hardness and are calculated using the following equations:

The MS in µg/L shall not exceed:  $\exp.(1.720\ln[(\text{total hardness mg/L})]-7.2156)$

The FAV in µg/L shall not exceed:  $\exp.(1.720\ln[(\text{total hardness mg/L})]-6.520)$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total silver standards for five total hardness values:

TH in mg/L	50	100	200	300	400
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# Adopted Rules

Silver, total						
CS µg/L	1.0	1.0	1.0	1.0	1.0	
MS µg/L	1.0	2.0	6.7	13	22	
FAV µg/L	1.2	4.1	13	27	44	
<b>Substance, Characteristic, or Pollutant (Class 2Bd)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
Temperature	°F below	See	NA	--	--	NA
<p>5°F above natural in streams and 3°F above natural in lakes, based on monthly average of the maximum daily temperatures, except in no case shall it exceed the daily average temperature of 86°F.</p>						
1,1,2,2 -Tetrachloroethane (c)	µg/L	1.5	HH	1,127*	2,253*	Tox
Tetrachloroeth- ylene (c)	µg/L	3.8	HH	428*	857*	Tox
Thallium, total	µg/L	0.28	HH	64	128	Tox
Toluene	µg/L	253	Tox	1,352	2,703	Tox
Toxaphene (c)	ng/L	1.3	HH	730*	1,500*	Tox
1,1,1 -Trichloroethane	µg/L	329	Tox	2,957	5,913	Tox
1,1,2 -Trichloroethylene (c)	µg/L	25	HH	6,988*	13,976*	Tox
2,4,6 -Trichlorophenol	µg/L	2.0	HH	102	203	Tox
Turbidity value	NTU	25	NA	--	--	NA
Vinyl chloride (c)	µg/L	0.18	HH	--*	--*	NA
Xylene, total m,p,o	µg/L	166	Tox	1,407	2,814	Tox
<b>Substance, Characteristic, or Pollutant (Class 2Bd)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
Zinc, total	µg/L	equation	Tox	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+0.7615])$

The MS in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+0.8604])$

The FAV in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+0.8604])$

hardness mg/L)]+1.5536)

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total zinc standards for five total hardness values:

TH in mg/L	50	100	200	300	400
<hr/>					
Zinc, total					
CS µg/L	59	106	191	269	343
MS µg/L	65	117	211	297	379
FAV µg/L	130	234	421	594	758

Subp. 4. **Class 2B waters.** The quality of Class 2B surface waters shall be such as to permit the propagation and maintenance of a healthy community of cool or warm water sport or commercial fish and associated aquatic life, and their habitats. These waters shall be suitable for aquatic recreation of all kinds, including bathing, for which the waters may be usable. This class of surface water is not protected as a source of drinking water. The applicable standards are given below. Abbreviations, acronyms, and symbols are explained in subpart 1.

Substance, Characteristic, or Pollutant (Class 2B)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
Acenaphthene	µg/L	20	HH	56	112	Tox
Acetochlor	µg/L	<del>1.7</del> <u>3.6</u>	Tox	86	173	Tox
Acrylonitrile (c)	µg/L	0.89	HH	1,140*	2,281*	Tox
Alachlor (c)	µg/L	59	Tox	800	1,600	Tox
Aluminum, total	µg/L	125	Tox	1,072	2,145	Tox
Ammonia un-ionized as N	µg/L	40	Tox	--	--	NA

The percent un-ionized ammonia can be calculated for any temperature and pH by using the following equation taken from Emerson, K., R.C. Russo, R.E. Lund, and R.V. Thurston, Aqueous ammonia equilibrium calculations; effect of pH and temperature. Journal of the Fisheries Research Board of Canada 32: 2379-2383 (1975):

$$f = 1 / (10^{(pK_a - pH)} + 1) \times 100$$

where: f = the percent of total ammonia in the un-ionized state

$pK_a = 0.09 + (2730/T)$  (dissociation constant for ammonia)

T = temperature in degrees Kelvin (273.16° Kelvin = 0° Celsius)

Anthracene	µg/L	0.035	Tox	0.32	0.63	Tox
Antimony, total	µg/L	31	Tox	90	180	Tox
Arsenic, total	µg/L	53	HH	360	720	Tox
Atrazine (c)	µg/L	10	Tox	323	645	Tox

# Adopted Rules

Benzene (c)	µg/L	98	HH	4,487	8,974	Tox
Bromoform	µg/L	466	HH	2,900	5,800	Tox

Substance, Characteristic, or Pollutant (Class 2B)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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Cadmium, total	µg/L	equation	Tox	equation	equation	Tox
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The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp(0.7852\ln[(\text{total hardness mg/L})]-3.490)$

The MS in µg/L shall not exceed:  $\exp(1.128\ln[(\text{total hardness mg/L})]-1.685)$

The FAV in µg/L shall not exceed:  $\exp(1.128\ln[(\text{total hardness mg/L})]-0.9919)$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total cadmium standards for five hardness values:

TH in mg/L	50	100	200	300	400
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Cadmium, total						
CS µg/L	0.66	1.1	2.0	2.7	3.4	
MS µg/L	15	33	73	116	160	
FAV µg/L	31	67	146	231	319	

Carbon tetra- chloride (c)	µg/L	5.9	HH	1,750*	3,500*	Tox
Chlordane (c)	ng/L	0.29	HH	1,200*	2,400*	Tox
Chloride	mg/L	230	Tox	860	1,720	Tox
Chlorine, total residual	µg/L	11	Tox	19	38	Tox

Chlorine standard applies to conditions of continuous exposure, where continuous exposure refers to chlorinated effluents that are discharged for more than a total of two hours in any 24-hour period.

Substance, Characteristic, or Pollutant (Class 2B)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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Chlorobenzene (Monochlorobenzene)	µg/L	20	HH	423	846	Tox
Chloroform (c)	µg/L	155	Tox	1,392	2,784	Tox
Chlorpyrifos	µg/L	0.041	Tox	0.083	0.17	Tox



Chromium +3,  $\mu\text{g/L}$  equation Tox equation equation Tox  
total

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in  $\mu\text{g/L}$  shall not exceed:  $\exp.(0.819\ln[(\text{total hardness mg/L})+1.561])$

The MS in  $\mu\text{g/L}$  shall not exceed:  $\exp.(0.819\ln[(\text{total hardness mg/L})+3.688])$

The FAV in  $\mu\text{g/L}$  shall not exceed:  $\exp.(0.819\ln[(\text{total hardness mg/L})+4.380])$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total chromium +3 standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Chromium +3, total					
CS $\mu\text{g/L}$	117	207	365	509	644
MS $\mu\text{g/L}$	984	1,737	3,064	4,270	5,405
FAV $\mu\text{g/L}$	1,966	3,469	6,120	8,530	10,797

Chromium +6,  $\mu\text{g/L}$  11 Tox 16 32 Tox  
total

Cobalt, total  $\mu\text{g/L}$  5.0 Tox 436 872 Tox

Substance, Characteristic, or Pollutant (Class 2B)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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Copper, total  $\mu\text{g/L}$  equation Tox equation equation Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in  $\mu\text{g/L}$  shall not exceed:  $\exp.(0.6200\ln[(\text{total hardness mg/L})-0.570])$

The MS in  $\mu\text{g/L}$  shall not exceed:  $\exp.(0.9422\ln[(\text{total hardness mg/L})-1.464])$

The FAV in  $\mu\text{g/L}$  shall not exceed:  $\exp.(0.9422\ln[(\text{total hardness mg/L})-0.7703])$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total copper standards for five total hardness values:

TH in mg/L	50	100	200	300	400
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Copper, total

# Adopted Rules

CS µg/L	6.4	9.8	15	19	23	
MS µg/L	9.2	18	34	50	65	
FAV µg/L	18	35	68	100	131	
Cyanide, free	µg/L	5.2	Tox	22	45	Tox
DDT (c)	ng/L	1.7	HH	550*	1,100*	Tox
1,2-Dichloro-ethane (c)	µg/L	190	HH	45,050*	90,100*	Tox
Dieldrin (c)	ng/L	0.026	HH	1,300*	2,500*	Tox
Di-2-ethylhexyl phthalate (c)	µg/L	2.1	HH	--*	--*	NA
Di-n-octyl phthalate	µg/L	30	Tox	825	1,650	Tox
<b>Substance, Characteristic, or Pollutant (Class 2B)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
Endosulfan	µg/L	0.031	HH	0.28	0.56	Tox
Endrin	µg/L	0.016	HH	0.090	0.18	Tox
<i>Escherichia (E.) coli</i>	See below	See below	HH	See below	See below	NA

Not to exceed 126 organisms per 100 milliliters as a geometric mean of not less than five samples representative of conditions within any calendar month, nor shall more than ten percent of all samples taken during any calendar month individually exceed 1,260 organisms per 100 milliliters. The standard applies only between April 1 and October 31.

Ethylbenzene	µg/L	68	Tox	1,859	3,717	Tox
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Eutrophication standards for Class 2B lakes, shallow lakes, and reservoirs. See definitions in part 7050.0150, subpart 4, and ecoregion map in part 7050.0467.

## Lakes, Shallow Lakes, and Reservoirs in Northern Lakes and Forest Ecoregions

Phosphorus, total	µg/L	30	NA	--	--	NA
Chlorophyll-a	µg/L	9	NA	--	--	NA
Secchi disk transparency	meters	Not less than 2.0	NA	--	--	NA

## Lakes and Reservoirs in North Central Hardwood Forest Ecoregion

Phosphorus, total	µg/L	40	NA	--	--	NA
Chlorophyll-a	µg/L	14	NA	--	--	NA
Secchi disk transparency	meters	Not less than 1.4	NA	--	--	NA

## Lakes and Reservoirs in Western Corn Belt Plains and Northern Glaciated Plains Ecoregions

Phosphorus,	µg/L	65	NA	--	--	NA
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total						
Chlorophyll-a	µg/L	22	NA	--	--	NA
Secchi disk transparency	meters	Not less than 0.9	NA	--	--	NA

Shallow Lakes in North Central Hardwood Forest Ecoregion

Phosphorus, total	µg/L	60	NA	--	--	NA
Chlorophyll-a	µg/L	20	NA	--	--	NA
Secchi disk transparency	meters	Not less than 1.0	NA	--	--	NA

Shallow Lakes in Western Corn Belt Plains and Northern Glaciated Plains Ecoregions

Phosphorus, total	µg/L	90	NA	--	--	NA
Chlorophylla	µg/L	30	NA	--	--	NA
Secchi disk transparency	meters	Not less than 0.7	NA	--	--	NA

Additional narrative eutrophication standards for Class 2B lakes, shallow lakes, and reservoirs are found in subpart 4a.

Fluoranthene	µg/L	1.9	Tox	3.5	6.9	Tox
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<b>Substance, Characteristic, or Pollutant (Class 2B)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
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Heptachlor (c)	ng/L	0.39	HH	260*	520*	Tox
Heptachlor epoxide (c)	ng/L	0.48	HH	270*	530*	Tox
Hexachloro-benzene (c)	ng/L	0.24	HH	--*	--*	Tox

Lead, total	µg/L	equation	Tox	equation	equation	Tox
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The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(1.273\ln[(\text{total hardness mg/L})-4.705])$

The MS in µg/L shall not exceed:  $\exp.(1.273\ln[(\text{total hardness mg/L})-1.460])$

The FAV in µg/L shall not exceed:  $\exp.(1.273\ln[(\text{total hardness mg/L})-0.7643])$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total lead standards for five total hardness values:

TH in mg/L	50	100	200	300	400
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Lead, total

# Adopted Rules

CS µg/L	1.3	3.2	7.7	13	19	
MS µg/L	34	82	197	331	477	
FAV µg/L	68	164	396	663	956	
Lindane (c) (Hexachlorocyclo- hexane, gamma)	µg/L	0.036	HH	4.4*	8.8*	Tox
<b>Substance, Characteristic, or Pollutant (Class 2B)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>
Mercury, total in water	ng/L	6.9	HH	2,400*	4,900*	Tox
Mercury, total in edible fish tissue	mg/kg ppm	0.2	HH	NA	NA	NA
Methylene chloride (c) (Dichloromethane)	µg/L	1,940	HH	13,875	27,749	Tox
Metolachlor	µg/L	23	Tox	271	543	Tox
Naphthalene	µg/L	81	Tox	409	818	Tox
Nickel, total	µg/L	equation	Tox	equation	equation	Tox

The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp(0.846 \ln[(\text{total hardness mg/L}) + 1.1645])$

The MS in µg/L shall not exceed:  $\exp(0.846 \ln[(\text{total hardness mg/L}) + 3.3612])$

The FAV in µg/L shall not exceed:  $\exp(0.846 \ln[(\text{total hardness mg/L}) + 4.0543])$

Where:  $\exp$  is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total nickel standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Nickel, total					
CS µg/L	88	158	283	399	509
MS µg/L	789	1,418	2,549	3,592	4,582
FAV µg/L	1,578	2,836	5,098	7,185	9,164

<b>Substance, Characteristic, or Pollutant</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, MS,</b>
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(Class 2B) FAV

Oil	µg/L	500	NA	5,000	10,000	NA
Oxygen, dissolved below	mg/L	See	NA	--	--	NA

5.0 mg/L as a daily minimum. This dissolved oxygen standard may be modified on a site-specific basis according to part 7050.0220, subpart 7, except that no site-specific standard shall be less than 5 mg/L as a daily average and 4 mg/L as a daily minimum. Compliance with this standard is required 50 percent of the days at which the flow of the receiving water is equal to the 7Q<sub>10</sub>. This standard applies to all Class 2B waters except for those portions of the Mississippi River from the outlet of the Metro Wastewater Treatment Works in Saint Paul (River Mile 835) to Lock and Dam No. 2 at Hastings (River Mile 815). For this reach of the Mississippi River, the standard is not less than 5 mg/L as a daily average from April 1 through November 30, and not less than 4 mg/L at other times.

Parathion	µg/L	0.013	Tox	0.07	0.13	Tox
Pentachloro-phenol	µg/L	equation	Tox/ HH	equation	equation	Tox

The CS, MS, and FAV vary with pH and are calculated using the following equations:

For waters with pH values greater than 6.95, the CS shall not exceed the human healthbased standard of 5.5 µg/L.

For waters with pH values less than 6.96, the CS in µg/L shall not exceed the toxicitybased standard of  $\exp.(1.005[\text{pH}]-5.290)$

The MS in µg/L shall not exceed:  $\exp.(1.005[\text{pH}]-4.830)$

The FAV in µg/L shall not exceed:  $\exp.(1.005[\text{pH}]-4.1373)$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For pH values less than 6.0, 6.0 shall be used to calculate the standard and for pH values greater than 9.0, 9.0 shall be used to calculate the standard.

Example of pentachlorophenol standards for five pH values:

pH su	6.5	7.0	7.5	8.0	8.5
<hr/>					
Pentachlorophenol					
CS µg/L	3.5	5.5	5.5	5.5	5.5
MS µg/L	5.5	9.1	15	25	41
FAV µg/L	11	18	30	50	82

Substance, Characteristic, or Pollutant (Class 2B)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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pH, minimum	su	6.5	NA	--	--	NA
pH, maximum	su	9.0	NA	--	--	NA
Phenanthrene	µg/L	3.6	Tox	32	64	Tox

# Adopted Rules

Phenol	µg/L	123	Tox	2,214	4,428	Tox
Polychlorinated biphenyls, total (c)	ng/L	0.029	HH	1,000*	2,000*	Tox

Radioactive materials	NA	See below	NA	See below	See below	NA
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Not to exceed the lowest concentrations permitted to be discharged to an uncontrolled environment as permitted by the appropriate authority having control over their use.

Selenium, total	µg/L	5.0	Tox	20	40	Tox
Silver, total	µg/L	1.0	Tox	equation	equation	Tox

The MS and FAV vary with total hardness and are calculated using the following equations:

The MS in µg/L shall not exceed:  $\exp.(1.720\ln[(\text{total hardness mg/L})-7.2156])$

The FAV in µg/L shall not exceed:  $\exp.(1.720\ln[(\text{total hardness mg/L})-6.520])$

Where: exp. is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total silver standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Silver, total					
CS µg/L	1.0	1.0	1.0	1.0	1.0
MS µg/L	1.0	2.0	6.7	13	22
FAV µg/L	1.2	4.1	13	27	44

Substance, Characteristic, or Pollutant (Class 2B)	Units	CS	Basis for CS	MS	FAV	Basis for MS, FAV
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Temperature	°F	See below	NA	--	--	NA
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5°F above natural in streams and 3°F above natural in lakes, based on monthly average of the maximum daily temperatures, except in no case shall it exceed the daily average temperature of 86°F.

1,1,2,2-Tetrachloroethane (c)	µg/L	13	HH	1,127	2,253	Tox
Tetrachloroethylene (c)	µg/L	8.9	HH	428	857	Tox
Thallium, total	µg/L	0.56	HH	64	128	Tox

Toluene	µg/L	253	Tox	1,352	2,703	Tox
Toxaphene (c)	ng/L	1.3	HH	730*	1,500*	Tox
1,1,1-Trichloroethane	µg/L	329	Tox	2,957	5,913	Tox
1,1,2-Trichloroethylene (c)	µg/L	120	HH	6,988	13,976	Tox
2,4,6-Trichlorophenol	µg/L	2.0	HH	102	203	Tox
Turbidity value	NTU	25	NA	--	--	NA
Vinyl chloride (c)	µg/L	9.2	HH	--*	--*	NA
Xylene, total m,p,o	µg/L	166	Tox	1,407	2,814	Tox
<b>Substance, Characteristic, or Pollutant (Class 2B)</b>	<b>Units</b>	<b>CS</b>	<b>Basis for CS</b>	<b>MS</b>	<b>FAV</b>	<b>Basis for MS, FAV</b>

Zinc, total	µg/L	equation	Tox	equation	equation	Tox
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The CS, MS, and FAV vary with total hardness and are calculated using the following equations:

The CS in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+0.7615])$

The MS in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+0.8604])$

The FAV in µg/L shall not exceed:  $\exp.(0.8473\ln[(\text{total hardness mg/L})+1.5536])$

Where:  $\exp.$  is the natural antilogarithm (base e) of the expression in parenthesis.

For hardness values less than 10 mg/L, 10 mg/L shall be used to calculate the standard and for hardness values greater than 400 mg/L, 400 mg/L shall be used to calculate the standard.

Example of total zinc standards for five total hardness values:

TH in mg/L	50	100	200	300	400
Zinc, total					
CS µg/L	59	106	191	269	343
MS µg/L	65	117	211	297	379
FAV µg/L	130	234	421	594	758

## 7050.0470 CLASSIFICATIONS FOR SURFACE WATERS IN MAJOR DRAINAGE BASINS.

Subpart 1. **Lake Superior Basin.** The water use classifications for the listed waters in the Lake Superior Basin are as identified in items A to D. See parts 7050.0425 and 7050.0430 for the classifications of waters not listed.

B. Lakes:

(129) \*Superior, Lake, excluding the portions identified in subitem ~~(128)~~ (130) 16000100, 11/5/84R (T.49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, R.14W7E): 1B, 2A, 3A;

Subp. 2. **Lake of the Woods Basin.** The water use classifications for the listed waters in Lake of the Woods Basin are as identified in items A to D. See parts 7050.0425 and 7050.0430 for the classifications of waters not listed.

A. Streams:

# Adopted Rules

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(12) Dumbbell River, (T.60, R.7, S.3, 4, 5, 7, 8, 9, 10, 16, 18, 19, 20, 28, 29, 31, 32; ~~T.61, R.7, S.34~~): 1B, 2A, 3B;

Subp. 3. **Red River of the North Basin.** The water use classifications for the listed waters in the Red River of the North Basin are as identified in items A to D. See parts 7050.0425 and 7050.0430 for the classifications of waters not listed.

A. Streams:

(42) Mustinka River Ditch, (T.128, R.45, S.19; T.128, R.46, S.13, 14, 23, 24; ~~T.129, R.46, S.13, 14~~): 2C;

Subp. 5. **Minnesota River Basin.** The water use classifications for the listed waters in the Minnesota River Basin are as identified in items A to D. See parts 7050.0425 and 7050.0430 for the classifications of waters not listed.

A. Streams:

(85) Judicial Ditch No. 4, Dawson, Lac qui Parle Oil Coop, (T.117, R.43, S.7, 17, 18, 20, 21 NW1/4; T.117, R.44, S.12): 7;

(93) Judicial Ditch No. 29 (Spring Creek), Evan, (T.110, R.33, S.6; T.111, R.33, S.21, 22, 28, 31, 32, 33): 7;

## 7053.0255 PHOSPHORUS EFFLUENT LIMITS FOR POINT SOURCE DISCHARGES OF SEWAGE, INDUSTRIAL, AND OTHER WASTES.

Subp. 4. **Alternative phosphorus effluent limits for new or expanded discharges.** New or expanded discharges subject to a one milligram per liter phosphorus effluent limit in subpart 3, item A, subitem (3), may request an alternative limit or no limit if one or more of items A to C apply. New or expanded discharges are defined in subpart 2. The exemptions in this subpart do not apply to facilities that discharge directly to or affect a lake, shallow lake, or reservoir or to discharges to the waters listed in subpart 5. Dischargers seeking an alternative limit due to very high per capita treatment costs or economic hardship must apply for a variance under parts 7000.7000 and 7053.0195.

The information submitted to the commissioner for consideration of an alternative limit must include, at a minimum, a description of the treatment technology used, influent and effluent total phosphorus concentrations, a phosphorus management plan for the facility, descriptions of any measures already taken to reduce phosphorus sources to the facility, and expected reductions in phosphorus concentrations following implementation of the phosphorus management plan. The discharger may qualify for an alternative total phosphorus limit or no limit if it can demonstrate:

A. the discharge is to or upstream of a water body listed on the applicable impaired water list, section 303(d) of the Clean Water Act, and the subsequent total maximum daily load study is complete and approved by the United States Environmental Protection Agency, as required by Code of Federal Regulations, title 40, part 130, section 7, at the time the new or expanding facility is in the planning and design phase. The total maximum daily load study must have considered impacts from phosphorus loading on the impaired water body. In this case, the total maximum daily load study will determine the applicable phosphorus effluent limit;

C. the treatment works, regardless of the type of treatment technology, ~~must use~~ uses chemical addition to achieve compliance with the one milligram per liter limit and the discharge is to a receiving stream in a watershed listed in subitems (1) to (3). In this case the discharger may be granted a seasonal one milligram per liter limit, applicable from May 1 through September 30 and not applicable from October 1 through April 30:



# Executive Orders

The governor has the authority to issue written statements or orders, called Executive Orders, as well as Emergency Executive Orders. The governor's authority is specified in the *Constitution of the State of Minnesota*, Article V, and in *Minnesota Statutes* § 4.035. Emergency Executive Orders, for protection from an imminent threat to health and safety, become effective immediately, are filed with the secretary of state, and published in the *State Register* as soon as possible after they are issued. Other Executive Orders become effective 15 days after publication in the *State Register* and filing with the secretary of state. Unless otherwise specified, an executive order expires 90 days after the date the governor who issued the order vacates office.

## Office of the Governor

### Executive Order # 08-06: Providing for the Governor's 21<sup>ST</sup> Century Tax Reform Commission

I, **TIM PAWLENTY**, Governor of the State of Minnesota, by virtue of the authority vested in me by the Constitution and applicable statutes, do hereby issue this executive order:

**WHEREAS**, Minnesota's goal is to be the best place in America to live, work and raise a family; and

**WHEREAS**, Minnesota's long-term prosperity requires that businesses and entrepreneurs invest, remain and grow in the state; and

**WHEREAS**, Minnesota's current tax system reflects the economy and demographics of the 1960s and could be improved to better support business development and investment, job growth, income generation, entrepreneurial activity, research activities and exports; and

**WHEREAS**, Minnesotans will benefit from an improved tax system that is simple, more predictable, and that supports a strong economy and job climate.

**NOW, THEREFORE**, I hereby order the creation of the Governor's 21<sup>st</sup> Century Tax Reform Commission ("Commission").

1. The Commission will be comprised of up to 15 members appointed by the Governor:
  - a. Membership on the Commission will include individuals with knowledge and experience in how state tax systems affect business location, job creation and capital investments.
  - b. Membership will also include representatives of the following types of businesses and individuals:
    - i. large and small businesses;
    - ii. businesses from key Minnesota industries;
    - iii. C-corporations, S-corporations, partnerships, and sole proprietors;
    - iv. suppliers of investment capital; and
    - v. individuals with special experience or knowledge in taxation and the economy.
  - c. The Governor will designate a chair.
  - d. Commission members will serve a two-year term, or until the Commission is disbanded at the request of the Governor.
  - e. Commission members will serve on a voluntary basis and are not eligible for per-diem or payment of expenses.
  - f. The Commissioner of Revenue and any designees will provide administrative and staff support to the Commission.
2. The Commission's responsibilities include providing advice and recommendations to the Governor on reforming the state's tax laws with the goal of making long-term improvements in the revenue system that reflect changes in business practices, demographics, and the economy that have occurred in Minnesota and in other states.
  - a. The Commission will recommend tax law changes that improve Minnesota's ability to successfully compete with other states and nations for jobs and business investments, and that promote the long-term economic prosperity of the State and its citizens.
  - b. The combined impact of the Commission's recommendations should be revenue-neutral.
  - c. The Commission's recommendations should reflect principles of sound tax policy including equity, simplicity, competitiveness, efficiency, stability, and ease of compliance and administration.
  - d. The Commission will provide the Governor with a report of its recommendation by December 1, 2008.

# Executive Orders

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3. The Commission will meet as soon as practicable following the completion of the open appointment process.

IN TESTIMONY WHEREOF, I have set my hand this 29<sup>th</sup> day of February, 2008.

Signed: TIM PAWLENTY  
Governor

Filed According to Law:

Signed: MARK RITCHIE  
Secretary of State

## Appointments

*Minnesota Statutes*, Section 15.06, Subd. 5. requires notice of the designation of a commissioner or acting commissioner, or the assumption of office by a temporary commissioner, shall be filed with the president of the senate and the speaker of the house with a copy delivered to the secretary of state and published in the next available edition of the *State Register*.

## Department of Transportation

### Notice of Appointment of Commissioner Robert J. McFarlin, Jr.

**NOTICE IS HEREBY GIVEN** pursuant to *Minnesota Statutes*, Section 15.06, Subd. 5, that Governor Tim Pawlenty appointed Robert J. McFarlin, Jr. to the office of Commissioner of the Minnesota Department of Transportation effective February 28, 2008. He succeeds Lieutenant Governor Carol Molnau, appointed January 6, 2003.

This appointment carries with it all rights, powers, duties, and emoluments granted by law and pertaining to this position until this appointment is superseded or annulled. The laws and rules governing the Department of Transportation are:

- *Minnesota Statutes*, Chapters 11A, 13, 15A, 16B, 17, 84, 103A, 103C, 103E, 116, 116C, 117, 160-162, 165, 167, 169, 173, 174, 216C, 218, 219, 221, 222, 360, 457A and 505
- *Minnesota Rules* 8800-8870

Commissioner McFarlin resides at 4240 Winchester Court, Minnetonka, Minnesota 55345, Hennepin County, Congressional District Three.

He can be reached at the Minnesota Department of Transportation, 395 John Ireland Boulevard, St. Paul, MN 55155. Telephone (651) 296-3000. Internet home page: <http://www.dot.state.mn.us>

## Official Notices

Pursuant to *Minnesota Statutes* §§ 14.101, an agency must first solicit comments from the public on the subject matter of a possible rulemaking proposal under active consideration within the agency by publishing a notice in the *State Register* at least 60 days before publication of a notice to adopt or a notice of hearing, and within 60 days of the effective date of any new statutory grant of required rulemaking.

The *State Register* also publishes other official notices of state agencies and non-state agencies, including notices of meetings and matters of public interest.

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## Minnesota State Agricultural Society (STATE FAIR) Notice of Meeting of the Board of Managers March 14, 2008

**MINNESOTA STATE FAIRGROUNDS** - The Minnesota State Agricultural Society board of managers will hold a general business meeting at 10 a.m. Friday, March 14 at the Libby Conference Center on the State Fairgrounds. The Society is the governing body of the Minnesota State Fair. Agendas are available upon request by calling (651) 288-4400.

The 2008 Minnesota State Fair will run Aug. 21 through Labor Day, Sept. 1.

Dated: March 10, 2008

## Department of Human Services Health Care Purchasing and Delivery Systems Division Health Care Administration Public Notice of Maximum Allowable Costs of Medical Assistance Outpatient Prescribed Drugs

**NOTICE IS HEREBY GIVEN** to recipients, providers of services, and to the public of additions to the state Medical Assistance maximum allowable cost (state MAC) list for certain outpatient prescribed drugs.

At least once each calendar year, the United States Department of Health and Human Services, Centers for Medicare & Medicaid Services, publishes a federal upper limit (FUL) payment schedule for many commonly prescribed multiple-source drugs. The federal upper limit is set at a rate equal to 150 percent of the published price for the least costly therapeutic equivalent that can be purchased by pharmacists. This FUL payment schedule constitutes the federal MAC list. For many multiple-source drugs that are not on the federal MAC list, the Department establishes a state MAC list. Additionally, the Department imposes a state MAC for many multiple-source drugs that are on the federal MAC list, as long as the savings are at least as much as the savings would be using the federal MAC list.

# Official Notices

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The Department requires Medical Assistance pharmacy providers to submit their usual and customary costs. Pharmacy providers are reimbursed at the lower of: 1) the federal or state MAC, plus a dispensing fee; 2) the submitted usual and customary charge to the general public; or 3) a discount off of average wholesale price, plus a dispensing fee.

On January 13, 2003 at 27 SR 1117-1130, the Department published the MAC list, listing the federal and state MACs. Additional changes to the state MAC list were published on February 18, 2003 (27 SR 1331-1334), March 3, 2003 (27 SR 1386-1393), April 21, 2003 (27 SR 1583-1584), August 4, 2003 (28 SR 102-103), October 13, 2003 (28 SR 505-506), October 20, 2003 (28 SR 528-529), December 15, 2003 (28 SR 784-785), January 26, 2004 (28 SR 934-935), March 8, 2004 (28 SR 1089-1090), April 5, 2004 (28 SR 1232), April 19, 2004 (28 SR 1313-1314), May 3, 2004 (28 SR 1367-1368), August 9, 2004 (29 SR 173), August 23, 2004 (29 SR 224-225), November 8, 2004 (29 SR 510), November 15, 2004 (29 SR 534-535), February 7, 2005 (29 SR 923-924), February 14, 2005 (29 SR 951-952), March 7, 2005 (29 SR 1038-1039), April 11, 2005 (29 SR 1174-1175), June 27, 2005 (29 SR 1607), July 18, 2005 (30 SR 49-50), August 15, 2005 (30 SR 147), August 29, 2005 (30 SR 226-227), October 17, 2005 (30 SR 402-403), November 14, 2005 (30 SR 511-512), December 12, 2005 (30 SR 617-618), January 9, 2006 (30 SR 770-771), January 30, 2006 (30 SR 833), February 13, 2006 (30 SR 884), February 27, 2006 (30 SR 926-927), March 20, 2006 (30 SR 1006-1007), April 10, 2006 (30 SR 1109), May 30, 2006 (30 SR 1249-1250), July 31, 2006 (31 SR 138-139), August 21, 2006 (31 SR 268), September 18, 2006 (31 SR 380 - 381), October 2, 2006 (31 SR 474-477), October 16, 2006 (31 SR 519-520), November 6, 2006 (31 SR 614), January 2, 2007 (31 SR 867-868), January 29, 2007 (31 SR 958-959), February 26, 2007 (31 SR 1169-1170), April 23, 2007 (31 SR 1444-1445), April 30, 2007 (31 SR 1523), June 18, 2007 (31 SR 1810-1811), July 23, 2007 (32 SR 219-220), August 6, 2007 (32 SR 301-302), August 27, 2007 (32 SR 380-381), September 24, 2007 (32 SR 572-573), October 8, 2007 (SR 32 667-668), November 5, 2007 (32 SR 811- 812), November 19, 2007 (32 SR 909-910), December 31, 2007 (32 SR 1234-1235), January 14, 2008 (32 SR 1289), January 28, 2008 (32 SR 1448-1449), February 11, 2008 (32 SR 1526) and February 25, 2006 (32 SR 1640).

Effective March 11, 2008 the Department will add the following outpatient prescribed drugs to the state MAC list:

**Drug Name**

CEFUROXIME AXETIL  
DONEPEZIL HCL

These additions are made to bring Medical Assistance reimbursement to pharmacists more closely in line with the actual acquisition cost of the drugs listed above. The Department estimates that there will be a state savings of \$30,000.00 for State Fiscal Year 2007 (July 1, 2007 through June 30, 2008).

This notice is published pursuant to *Code of Federal Regulations*, Title 42, section 447.205, which requires publication of a notice when there is a rate change in the methods and standards for setting payment rates for Medical Assistance services.

Written comments and requests for information may be sent to Kristin Young, Pharmacy and Program Manager, Health Care Purchasing and Delivery Systems Division, Health Care Administration, Minnesota Department of Human Services, P.O. Box 64984, St. Paul, Minnesota 55164-0984; **phone:** (651) 431-2504 or **email:** *kristen.c.young@state.mn.us*

## Department of Labor and Industry

### Labor Standards Unit

#### Notice of Certification of Truck Rental Rates and Effective Date Pursuant to *Minnesota Rules, Part 5200.1105*

On March 10, 2008 the commissioner certified the minimum truck rental rates for highway projects in the state's ten highway and heavy construction areas for trucks and drivers operating "four or more axle units, straight body trucks," "three axle units," "tractor only," and "tractor trailers." The certification by the commissioner came after Notice of Determination of Truck Rental Rates by the commissioner, including the determination of truck operating costs, was published in the *State Register* on December 24, 2007 and the informal conference pursuant to *Minnesota Rules, Part 5200.1105* to receive further public input prior to certification was held at the department on January 16, 2008.

The operating costs were determined by survey on a statewide basis. The operating cost for "four or more axle units, straight body

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## Official Notices

trucks” was determined by survey to be \$46.87 per hour. The operating cost for “three axle units” was determined by survey to be \$35.49 per hour. The operating cost for “tractor only” was determined by survey to be \$41.72 per hour. The operating cost for “trailer only” was determined to be \$11.46 per hour. The operating cost for “tractor trailers” was determined by survey to be \$53.18 per hour.

Adding the prevailing wage for drivers of these four types of trucks from each of the state’s ten highway and heavy construction areas to the operating costs, the minimum hourly truck rental rate for the four types of trucks in each area is certified to be as follows:

	<b>Tractor trailer</b>	<b>Four or more axle</b>	<b>Three axle</b>	<b>Tractor only</b>
<b>Region 1</b>	\$82.83	\$76.34	\$68.84	\$71.37
May 1, 2008			\$70.44	
<b>Region 2</b>	\$82.75	\$75.93	\$59.49	\$71.29
May 1, 2008	\$83.90	\$77.08		\$72.44
<b>Region 3</b>	\$75.55	\$68.61	\$57.86	\$64.09
<b>Region 4</b>	\$73.60	\$66.78	\$55.40	\$62.14
<b>Region 5</b>	\$88.53	\$73.12	\$68.44	\$77.07
May 1, 2008	\$90.13			\$78.67
<b>Region 6</b>	\$86.33	\$60.62	\$67.99	\$74.87
May 1, 2008	\$87.93		\$69.59	\$76.47
<b>Region 7</b>	\$82.75	\$75.93	\$64.40	\$71.29
May 1, 2008	\$83.90	\$77.08	\$65.55	\$72.44
<b>Region 8</b>	\$72.68	\$68.46	\$58.98	\$61.22
<b>Region 9</b>	\$88.53	\$81.67	\$70.19	\$77.07
May 1, 2008	\$90.13	\$83.27	\$71.79	\$78.67
<b>Region 10</b>	\$78.28	\$75.93	\$64.40	\$66.82
May 1, 2008		\$77.08	\$65.55	

The operating costs, including the average truck broker fee paid by those survey respondents who reported paying truck broker fees, and the truck rental rates may also be reviewed by accessing the department’s web site at [www.doli.state.mn.us](http://www.doli.state.mn.us). Questions regarding the operational costs and truck rental rates can be answered by calling (651) 284-5091.

The minimum truck rental rates certified for these four types of trucks in the state’s ten highway and heavy construction areas will be effective for all highway and heavy construction projects financed in whole or part with state funds advertised for bid on or after March 10, 2008.

Dated: March 10, 2008

Steve Sviggum, Commissioner  
Labor and Industry Department

## State Rehabilitation Council Meeting Dates March 26, 2008 through May 28, 2008

The State Rehabilitation Council will meet on the following dates at the designated location. For more information, please contact the Department of Employment and Economic Development at: phone: (800) 328-9095; (651) 259-7364. TTY: (800) 657-3973; (651) 296-3900. If accommodations are required, please request them no later than one week in advance.

# Official Notices

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Please note that the April 30 meeting deviates from the typical fourth Wednesday of the month. Please note the different location of the May meeting.

## March 26, 2008

Radisson Hotel Roseville  
2540 North Cleveland Avenue  
Roseville, MN 55113  
9:00 to 2:00

## April 30, 2008

Radisson Hotel Roseville  
2540 North Cleveland Avenue  
Roseville, MN 55113  
9:00 to 2:00

## May 28, 2008

Minneapolis South Workforce Center  
Room 207  
777 East Lake Street  
Minneapolis, MN 55407  
9:00 to 2:00

## State Grants & Loans

In addition to requests by state agencies for technical/professional services (published in the State Contracts Section), the *State Register* also publishes notices about grants and loans available through any agency or branch of state government. Although some grant and loan programs specifically require printing in a statewide publication such as the *State Register*, there is no requirement for publication in the *State Register* itself. Agencies are encouraged to publish grant and loan notices, and to provide financial estimates as well as sufficient time for interested parties to respond.

## Grant Applicants

Have you picked up all the grants open for bid? A "Contracts & Grants" section is available that lists all grants and contracts open for bid. Open the *State Register* and click on Bookmarks in the upper right corner. You will see a list of ALL the current rules, with an INDEX, and previous years' indices, as well as a list of all contracts and grants open for bid. Subscribe and receive LINKS to the *State Register*. You also receive Subscriptions cost \$180 a year (an \$80 savings). Here's what you receive via e-mail:

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## Department of Commerce

### Notice of Availability of Grant Availability for On-Farm Anaerobic Digester Grants

The Minnesota Department of Commerce is requesting proposals for the purpose of installation or expansion of a commercially available anaerobic digester system at eligible Minnesota dairy farms to produce any of the following forms of energy: electricity, thermal energy or biogas.

Work is proposed to start during the month of July 2008.

A Request for Proposals will be available from this office through May 28, 2008. **A written request (e-mail, direct mail or fax) is required to receive the Request for Proposal.** After May 28, 2008, the Request for Proposal must be picked up in person.

The Request for Proposal can be obtained from:

Amy Bicek  
Minnesota Department of Commerce  
85 Seventh Place E, Suite 500  
Saint Paul, MN 55101  
**Fax:** (651) 297-7891  
**E-mail:** *Energy.contracts@state.mn.us*

Proposals submitted in response to the Request for Proposals in this advertisement must be received at the address above no later than May 30, 2008. **Late proposals will not be considered.** Fax proposals will **not** be considered.

This request does not obligate the State to complete the work contemplated in this notice. The State reserves the right to cancel this solicitation. All expenses incurred in responding to this notice are solely the responsibility of the responder.

Dated: March 10, 2008

## Minnesota Department of Human Services (DHS) Nursing Facility Rates and Policy (NFRP) Division Nursing Facility Diversity Mini-Grant Program Open for Proposals

**NOTICE IS HEREBY GIVEN** that the Minnesota Department of Human Services (DHS) through its Nursing Facility Rates and Policy Division (State), is seeking Proposals from qualified Nursing Facility Responders to develop or provide a program related to diversity and/or cultural competency issues in staffing and resident care within their respective facility.

The Nursing Facility Diversity Mini-Grant program was established under authority of the DHS Civil Monetary Penalties (CMP) Committee. The purpose of the Nursing Facility Diversity Mini-Grant program is to encourage the design and development of programming surrounding diversity issues and/or cultural competency affecting nursing facilities. This proposed program may be related to staff and/or resident diversity issues.

Budget requests are limited and must fall within a range of \$300 - \$3,000. The total available funds will not necessarily be divided equally, nor will selected applicants be guaranteed the entire amount requested.

The term of any resulting grant contract is anticipated to extend no longer than 12 months. A bidder's conference will be held at The Minnesota Department of Human Services (DHS) Elmer Andersen Building, 540 Cedar Street, St. Paul, MN. on Monday March 17th, 2008, from 9:30-10:30 a.m..

The Request for Proposal (RFP) can be obtained from:



# State Grants & Loans

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Munna Yasiri  
State Programs Admin Director  
MN Department of Human Services  
NF Rates & Policy (NFRP) Division  
540 Cedar Street  
St. Paul, MN 55155  
**Phone:** (651) 431-2264  
**E-mail:** [munna.yasiri@state.mn.us](mailto:munna.yasiri@state.mn.us)

Proposals submitted in response to the Request for Proposals in this advertisement must be received at the address above no later than 4:00 p.m., Central Time, Monday March 24, 2008. Late proposals will not be considered.

This request does not obligate the State to complete the work contemplated in this notice. The State reserves the right to cancel this solicitation. All expenses incurred in responding to this notice are solely the responsibility of the responder.

## State Contracts

**Informal Solicitations:** Informal solicitations for professional/technical (consultant) contracts valued at over \$5,000 through \$50,000, may either be published in the *State Register* or posted on the Department of Administration, Materials Management Division's (MMD) Web site. Interested vendors are encouraged to monitor the P/T Contract Section of the MMD Web site at [www.mmd.admin.state.mn.us](http://www.mmd.admin.state.mn.us) for informal solicitation announcements.

**Formal Solicitations:** Department of Administration procedures require that formal solicitations (announcements for contracts with an estimated value over \$50,000) for professional/technical contracts must be published in the *State Register*. Certain quasi-state agency and Minnesota State College and University institutions are exempt from these requirements.

**Requirements:** There are no statutes or rules requiring contracts to be advertised for any specific length of time, but the Materials Management Division strongly recommends meeting the following requirements:

\$0 - \$5000 does not need to be advertised. Contact the Materials Management Division: (651) 296-2600  
\$5,000 - \$25,000 should be advertised in the *State Register* for a period of at least seven calendar days;  
\$25,000 - \$50,000 should be advertised in the *State Register* for a period of at least 14 calendar days; and  
anything above \$50,000 should be advertised in the *State Register* for a minimum of at least 21 calendar days

## Contract Information

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**Department of Administration****Division of Real Estate and Construction Services****Notice of Request for Qualifications (RFQ) and Fee Schedule for Professional Services of Owner's Project Representatives and of Minnesota Registered Architects, Engineers, Interior Designers, Land Surveyors, Landscape Architects, Geoscientists, and Owner's Project Representatives**

The Department of Administration, Real Estate and Construction Services ("State"), requests qualifications of Owner's Project Representatives and Minnesota registered architects, engineers, interior designers, land surveyors, geoscientists ("Consultant") to assist the State in providing studies, predesigns, design through construction documents, construction administration, post construction services, interior design, land surveys, geoscience, and project-related professional services as needed for up to a five-year period. These projects will be varied in nature and scope and will involve new construction and remodeling, which includes but is not limited to buildings, commissioning, bridges, parking structures, site and utility work, roadways, and land development.

Unless otherwise provided in *Minnesota Statutes* § 16B.33, the following guidelines apply when using the Master Roster: State agency construction projects requiring a primary designer will have an estimated cost of construction of no greater than \$2,000,000.00; or a study, report, or predesign for a state agency planning project will have a consultant estimated fee no greater than \$200,000.00. Higher education construction projects requiring a primary designer will have an estimated cost of construction of no greater than \$2,000,000.00; and a study, report or predesign for a planning project will have a consultant estimated fee no greater than \$200,000.00. Primary Designers for Projects to construct, erect, or remodel a building with an estimated cost in excess of these amounts will be selected by the State Designer Selection Board in accordance with *Minnesota Statutes* § 16B.33.

The Request for Qualifications document may be found online at: [www.admin.state.mn.us/recs](http://www.admin.state.mn.us/recs) . Copies of the RFQ may also be requested from:

Contracts Coordinator  
Real Estate and Construction Services  
309 Administration Building, 50 Sherburne Avenue  
St. Paul, MN 55155  
**Phone:** (651) 201-2550

The Request for Qualifications and Fee Schedule will remain open continually to enable individuals and firms not currently on the Roster to submit their qualifications and fee schedules. One year after a completed response is added to the Master Roster, the firm will be asked whether it wants to remain on the roster. If the responder wants to continue to remain on the roster it will be able to update its fee schedule, and will be required to submit updated written documents. If no response is received within 30 days of the notice, the responder's name will be removed from the Master Roster until such time as it has re-submitted a complete response to the RFQ. The State reserves the right to cancel this solicitation if it is considered to be in its best interest. The RFQ is not a guarantee of work and it does not obligate the State to award any contracts.

The State reserves the right to discontinue the use or cancel all or any part of this Master Roster program if it is determined to be in its best interest. All expenses incurred in responding to this notice are solely the responsibility of the responder.

**Minnesota State Colleges and Universities (MnSCU)****Minneapolis Community & Technical College****Intent to Solicit Three Separate Bids: Printing and Mailing of Summer 2008 Class Schedule, Fall 2008 Class Schedule and Catalog 08-09**

**NOTICE OF INTENT** to solicit three separate bids: printing and mailing of *Summer 2008 Class Schedule*, *Fall 2008 Class Schedule*, and *Catalog 08-09* (no mailing).

**Specifications:** *Summer 2008 schedule* will be 16 pages. Include cost for additional 4-page increments. Bids requested for  
(Cite 32 SR 1737) *State Register*, Monday 10 March 2008 **Page 1737**

# State Contracts

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quantities of 60,000, 70,000 & 80,000 copies.

*Fall 2008 schedule* will be 32 pages. Include cost for additional 4-page increments. Bids requested for quantities of 70,000, 80,000 & 90,000 copies.

**For both schedules:** Tabloid-size 10 3/4" x 17" saddle-stitched and trimmed. Refold to 10 3/4" x 8 1/2". Image area approximately 9 3/4" x 15 7/8" w/no bleeds. 35# white groundwood offset 80B self-cover. Cover is black and 2 PMS. Text is black and 1 PMS. Request printer with onsite mailing capabilities. Approximately 45,000 schedules to be mailed for each version using provided mailing lists.

*Catalog 08-09* will be about 320 text pages plus a 4-page cover section. Perfect bind. Page image area approximately 7 3/4" W x 10 1/4" H w/bleeds on the front cover and the spine. Catalog-size trim size 8 1/4" W x 10 3/4" H. Text section 50# vellum offset, cover section 80# gloss cover weight. Text section black ink only on all pages (tabs bleed), cover section blk + 1 pms color/blk (non-bleed). Provide prices for 13,000, 15,000, and 17,000 copies. Include cost for additional pages in 4 page increments.

Creatives for each will be provided in .pdf or InDesign format unless specified. Also, if requested, printer must be able to provide MCTC with a CD of the final document in a format that can be edited.

**Print schedule:** Summer schedule to printer approximately 3/17/08.  
Fall schedule to printer approximately 4/10/08.  
Catalog to printer approximately 5/6/08.

Deliver both schedules and catalog within seven working days of final approved proofs and files.

**Deadline for Bids:** 12:00 p.m. – Tuesday, March 18, 2008

**Contact:** E-mail David Tajima: *David.Tajima@minneapolis.edu*.

## Minnesota State Colleges and Universities (MnSCU) Winona State University Request for Bids for a 2007 Chevrolet Regular Cab 2WD

Notice is hereby given that Winona State University is seeking bids for a 2007 Chevrolet Regular Cab 2WD truck model #CC5C042.

Bid specifications will be available Monday, March 10, 2008 by contacting the Purchasing Department at PO Box 5838, 205 Somsen Hall, Winona, MN 55987, e-mail: *sschmitt@winona.edu*, or by calling (507) 457-5067.

Sealed bids must be received by Sandra Schmitt at PO Box 5838, or at 205G Somsen Hall, Business Office, Winona State University, Winona, MN 55987 by 3:00 pm, Monday, March 24, 2008.

Winona State University reserves the right to reject any or all bids and to waive any irregularities or informalities in bids received.

## Minnesota Department of Corrections Notice of Request for Proposals for Electronic Home Monitoring and GPS Monitoring

The Minnesota Department of Corrections (DOC) is seeking proposals to provide electronic and global positioning monitoring services to selected high-risk offenders released from Minnesota correctional facilities to the community.

The contract period is July 1, 2008, through June 30, 2009, with the option for three one-year extensions. The contract cost for services for the one-year contract is estimated not to exceed \$462,000 for the contract period; however, this request for proposals (RFP) does not obligate the DOC to spend the estimated dollar amount.

The full RFP will be sent free-of-charge in response to written, e-mailed, or faxed requests to the contact person listed below. Proposals must be submitted to the DOC contact person. Other personnel are NOT allowed to discuss the RFP with anyone, including responders, before the proposal submission deadline. Proposals must be received by the contact person listed below no later than 2:30 p.m. central time, April 14, 2008.

Lina Jau  
Department of Corrections Grants & Subsidies Unit  
1450 Energy Park Drive Suite 200  
St. Paul, Minnesota 55108-5219  
**Telephone:** (651) 361-7169  
**Fax:** (651) 642-0292  
**TTY:** (800) 627-3529  
**E-mail:** <mailto:lina.jau@state.mn.us>

## Explore Minnesota Tourism Notice of Availability of Contract for Interactive Marketing

Explore Minnesota Tourism is requesting proposals for a contract for interactive marketing. Work is proposed to start May 1, 2008.

A request for proposals will be available online at: [www.exploreminnesota.com/08websiteRFP](http://www.exploreminnesota.com/08websiteRFP) through April 4, 2008

Proposals submitted in response to the RFP must be received at the address below no later than April 4, 2008 at 2:30pm Central Time.

Michele Peters  
Explore Minnesota Tourism  
100 Metro Square  
121 - 7<sup>th</sup> Place East  
St. Paul, MN 55101

Late proposals will not be considered. Fax or email proposals will not be considered.

This request does not obligate the state to complete the work contemplated in this notice. The state reserves the right to cancel this solicitation. All expenses incurred in responding to this notice are solely the responsibility of the responder.

## Department of Labor and Industry Notice of Request for Proposals (RFP) for Providing Electrical Inspection Service for Fiscal Year 2009 (July 1, 2008 Through June 30, 2009)

The Department of Labor and Industry (Department) is requesting proposals to provide electrical inspection service in areas of the state that are not provided with local (municipal) electrical inspection service. In accordance with *Minnesota Statutes* section 326B.36, subdivision 1(b), all individuals providing inspection service must be licensed as journeyman or master electricians.

The Department is requesting proposals from prospective responders to provide primary electrical inspection service for all, part, or combinations of the following counties: All 87 counties in Minnesota.

In addition, the Department is requesting proposals from prospective responders to provide supplemental electrical inspection service in regional areas of the state, including full-time, part-time, or seasonal service.

A detailed Request for Proposals (RFP) packet has been prepared by the Department that defines available geographical inspection areas, minimum service requirements, and other related information. The packet is available by mail or for pick-up at the Department office. The RFP packet cannot be faxed or emailed.

# State Contracts

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Prospective responders interested in submitting a proposal for this service should request the detailed Request for Proposals (RFP) packet. Requests for the detailed Request for Proposals (RFP) packet can be made by sending an e-mail message to [john.williamson@state.mn.us](mailto:john.williamson@state.mn.us) (preferred), by faxing the request to: (651) 284-5743, or by calling: (651) 284-5823. Please make sure to provide your name, mailing address, phone number and email address when requesting a detailed Request for Proposal packet. Any related questions regarding the Request for Proposal packet should be directed to the following person:

John I. Williamson  
Supervisor Electrical Inspections  
Construction Codes and Licensing Division  
Department of Labor and Industry  
443 Lafayette Road North  
Saint Paul, MN 55155-4342  
**Telephone:** (651) 284-5823  
**FAX:** (651) 284-5743  
**E-mail:** [john.williamson@state.mn.us](mailto:john.williamson@state.mn.us)

Proposals must be received at the Department of Labor and Industry office by 3:00 p.m. Central Time, Tuesday, March 25, 2008. Late proposals, faxed proposals, or emailed proposals will not be considered.

This request does not obligate the Department to complete the work contemplated in this notice. The Department reserves the right to cancel this solicitation. All expenses incurred in responding to this notice are solely the responsibility of the responder.

## Minnesota Legislature

### Legislative Coordinating Commission

### Airport Funding Advisory Task Force

### Request for Statement Qualifications (SOQ) for State Airport Funding Consulting Services

The Legislative Coordinating Commission (LCC) is requesting Statements of Qualifications (SOQ's) from firms with extensive knowledge of state airports funding.

**I. Background.** The 2007 Minnesota Legislature provided an appropriation for the preparation of an Airport Funding Advisory Task Force Report.

The duties of the Airport Funding Advisory Task Force are defined in a resolution adopted by the LCC on June 19, 2007. The resolution states that the Task Force shall study:

- a. the adequacy of current sources of revenue for the state airports fund and airports in the state;
- b. policy considerations regarding the use of the sales tax on aircraft as a potential source of revenue for airports;
- c. how other states fund airports;
- d. projected aviation needs of the future, including required investments in aviation infrastructure;
- e. aircraft registration taxes; and
- f. other issues relating to the funding of airports as determined by the Task Force.

**II. Purpose.** The purpose of this request for SOQ is to provide analysis assistance needed by the Task Force in order to carry out its work.

A. Specific tasks will likely include:

1. Compilation of information and data relating to:
  - a. How other states fund airports.
  - b. How aircraft registration taxes are imposed in other states.
2. Identify other states that are major competitors to Minnesota aviation;
3. Develop a proposed policy and related statutory language concerning financial contributions to the State Airports Fund by fractional ownership aircraft using Minnesota's aviation facilities.
  - a. Develop a tax structure that is fair and equitable to all users of the Minnesota aviation system.
  - b. Use scenario modeling to identify the impact of changing one item on the other items.

B. The analysis in paragraph A must:

1. Include comparisons of taxes paid by general aviation in these states:

- a. Minnesota
- b. North Dakota
- c. South Dakota
- d. Iowa
- e. Wisconsin
- f. California
- g. Delaware
- h. Florida
- i. Illinois
- j. Michigan
- k. Montana
- l. New York
- m. Pennsylvania
- n. Texas

2. Include state, county, local and other taxes paid by general aviation aircraft owners and the airlines. Members of the Task Force may assemble state, county and local taxes paid by the airlines in these states. However, the consultant may be asked to review the documentation for accuracy and completeness.

C. The consultant will be expected to:

1. Present their analysis, findings and recommendations to the Task force and other legislative committees;
2. Prepare a report with its analysis, findings and recommendations.

D. The Task Force may request that the consultant complete additional tasks or analysis, which will be completed if jointly agreed to by the consultant;

### III. Statement of Qualification contents

Firms desiring to be considered for this work should submit a Statement of Qualifications that includes:

- a. A brief history of the firm.
- b. State airports funding programs revenues and aircraft operating costs analysis experience specifically related to the Task Force study.
- c. Résumés of key personnel that will be assigned to this project.
- d. Client references.
- e. A description of the fees and rates to be charged by the consultant in carrying out the tasks requested in this proposal.
- f. The consultant's total time and expenses cost to be charged to the Task Force for one (1) meeting with the Task Force in Saint Paul, Minnesota. The purpose of this meeting will be to discuss, develop and define the consultant's work scope and compensation.

The LCC and Task Force may select a firm based directly upon the SOQ, then enter into negotiations with the selected firm to define the services to be provided and the compensation for those services.

One hard copy and one soft (electronic) copy of the SOQ should be submitted to:

Greg Hubinger, Director  
Minnesota State Legislature  
Legislative Coordinating Commission  
100 Rev Dr Martin Luther King Jr Blvd  
72 State Office Building  
Saint Paul, MN 55155

Or e-mail one soft (electronic) copy to: [greg.hubinger@lcc.leg.mn](mailto:greg.hubinger@lcc.leg.mn)

To ensure consideration, the proposal should be submitted no later than 4:00 PM, March 24, 2008.

# State Contracts

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## Department of Natural Resources

### Division of Forestry

#### Notice of Availability of Contract for Forest Stewardship Technical Assistance

The Minnesota Department of Natural Resources is requesting proposals for the purpose of providing written forest stewardship plans and other technical assistance including maintenance visits and project plans to Minnesota's Non-Industrial Private Forest (NIPF) landowners. The amount of the proposed contract varies.

Work is proposed to start after 7/1/2008.

A Request for Proposals will be available by mail from this office through 3/21/2008. **A written request (by direct mail or fax) is required to receive the Request for Proposal.** After 3/21/2008, the Request for Proposal must be picked up in person.

The Request for Proposal can be obtained from:

Andrew Arends  
Cooperative Forest Mgmt Supervisor  
MN DNR - Forestry  
500 Lafayette Road  
St. Paul, MN 55155-4044  
**Phone:** (651) 259-5261  
**Fax:** (651) 296-5954

Proposals submitted in response to the Request for Proposals in this advertisement must be received at the address above no later than 4:00 p.m. on 3/28/2008. **Late proposals will not be considered.** An electronic and hardcopy must be received.

This request does not obligate the State to complete the work contemplated in this notice. The State reserves the right to cancel this solicitation. All expenses incurred in responding to this notice are solely the responsibility of the responder.

## Department of Natural Resources

### Division of Forestry

#### Notice of Availability of Contract for Information and Education Items

The Minnesota Department of Natural Resources is requesting proposals for the purpose of educating or informing Minnesota's Non-Industrial Private Forest (NIPF) landowners about stewardship of their natural resources. Topic areas suggested include native plant communities, ecological classification systems, intergenerational land transfer, insect and disease identification and control strategies, invasive species identification and control, property tax law update, and special forest product information. The amount of the proposed contract varies.

Work is proposed to start after 7/1/2008.

A Request for Proposals will be available by mail from this office through 3/21/2008. **A written request (by direct mail or fax) is required to receive the Request for Proposal.** After 3/21/2008, the Request for Proposal must be picked up in person.

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This request does not obligate the State to complete the work contemplated in this notice. The State reserves the right to cancel this solicitation. All expenses incurred in responding to this notice are solely the responsibility of the responder.

### Department of Transportation (Mn/DOT) Engineering Services Division Notice of Potential Availability of Contracting Opportunities for a Variety of Highway Related Technical Activities (“Consultant Pre-Qualification Program”)

This document is available in alternative formats for persons with disabilities by calling Juanita Voigt at (651) 366-4774 for persons who are hearing or speech impaired by calling Minnesota Relay Service at (800) 627-3529.

Mn/DOT, worked in conjunction with the Consultant Reform Committee, the American Council of Engineering Companies of Minnesota (ACEC/MN), and the Department of Administration, to develop the Consultant Pre-Qualification Program as a new method of consultant selection. The ultimate goal of the Pre-Qualification Program is to streamline the process of contracting for highway related professional/technical services. Mn/DOT awards most of its consultant contracts for highway-related technical activities using this method, however, Mn/DOT also reserves the right to use Request for Proposal (RFP) or other selection processes for particular projects. Nothing in this solicitation requires Mn/DOT to use the Consultant Pre-Qualification Program.

Mn/DOT is currently requesting applications from consultants. Refer to Mn/DOT’s Consultant Services web site, indicated below, to see which highway related professional/technical services are available for application. Applications are accepted on a continual basis. All expenses are incurred in responding to this notice will be borne by the responder. Response to this notice becomes public information under the Minnesota Government Data Practices.

Consultant Pre-Qualification Program information, application requirements and applications forms are available on Mn/DOT’s Consultant Services web site at: <http://www.dot.state.mn.us/consult>.

Send completed application material to:

Juanita Voigt  
Consultant Services  
Office of Technical Support  
Minnesota Department of Transportation  
395 John Ireland Blvd. Mail Stop 680  
St. Paul, Minnesota 55155

**Note: DUE DATE: APPLICATION MATERIAL WILL BE ACCEPTED ON A CONTINUAL BASIS.**

### Department of Transportation (Mn/DOT) Engineering Services Division Notice Concerning Professional/Technical Contract Opportunities

**NOTICE TO ALL:** The Minnesota Department of Transportation (Mn/DOT) is now placing additional public notices for professional/technical contract opportunities on Mn/DOT’s Consultant Services **website** at: [www.dot.state.mn.us/consult](http://www.dot.state.mn.us/consult).

New public notices may be added to the website on a daily basis and be available for the time period as indicated within the public notice.



# Non-State Bids, Contracts & Grants

The *State Register* also serves as a central marketplace for contracts let out on bid by the public sector. The *State Register* meets state and federal guidelines for statewide circulation of public notices. Any tax-supported institution or government jurisdiction may advertise contracts and requests for proposals from the private sector. It is recommended that contracts and RFPs include the following: 1) name of contact person; 2) institution name, address, and telephone number; 3) brief description of commodity, project or tasks; 4) cost estimate; and 5) final submission date of completed contract proposal. Allow at least three weeks from publication date (four weeks from the date article is submitted for publication). Surveys show that subscribers are interested in hearing about contracts for estimates as low as \$1,000. Contact editor for further details.

## Metropolitan Council

### Request for Proposals (RFP) for Northstar Commuter Rail Line Maintenance Services

RFP Number 08P018

The Metropolitan Council is a regional governmental organization that provides public transportation services in the Twin Cities metropolitan area of Minneapolis and St. Paul, Minnesota. The Council will operate the Northstar Commuter Rail Line that will serve a 40-mile corridor between Minneapolis and Big Lake, Minnesota. Revenue service is expected to begin in November 2009.

The Council is seeking proposals for Northstar Commuter Rail Line Maintenance Services. These services will be performed at the Council's maintenance facility in Big Lake, Minnesota, and are expected to include the maintenance of 5 locomotives, 12 multi-level commuter coaches, 6 cab cars, designated yard tracks, yard switches and terminal tracks, and the maintenance facility itself.

A tentative schedule for this project is given below.

<i>Issue Request for Proposals</i>	<b>March 3, 2008</b>
<i>Receive Proposals</i>	<b>April 22, 2008</b>
<i>Contract Award</i>	<b>June 2008</b>
<i>Start of Services</i>	<b>November 2008</b>

In January 2008 the Council published a Request for Statements of Interest (SOI) concerning this project. An RFP package will be sent to all those who previously responded to the SOI. All other firms interested in being considered for this project and desiring to receive an RFP package are invited to submit a request to the RFP Administrator identified below.

Auburn Dees, RFP Administrator  
Metropolitan Council  
390 Robert Street North  
St Paul, MN 55101  
**Phone:** (651) 602-1346  
**Fax:** (651) 602-1070  
**E-mail:** [auburn.dees@metc.state.mn.us](mailto:auburn.dees@metc.state.mn.us)

## Metropolitan Council

### Notice of Request for Proposals (RFP) for Regional Parks Site Interceptor Survey

Contract Number 08P032

The Metropolitan Council is requesting proposals for the administration of a regional parks and trails site-interceptor survey between Memorial Day and Labor Day of 2008 to visitors at each of 83 park and trail sites throughout the seven-county Twin Cities Metropolitan Area.

<i>Issue Request for Proposals</i>	<b>March 10, 2008</b>
<i>Receive Proposals</i>	<b>April 10, 2008</b>
<i>Contract negotiated, executed, NTP</i>	<b>May, 2008</b>
<i>Period of performance</i>	<b>June, 2008 to December, 2008</b>



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## Non-State Bids, Contracts & Grants

All firms interested in being considered for this project and desiring to receive an RFP package are invited to submit a Letter of Interest to:

Miriam Lopez-Rieth, Administrative Assistant,  
Contracts and Procurement Unit  
Metropolitan Council  
390 Robert Street  
St. Paul, MN 55101  
**Phone:** (651) 602-1095  
**Fax:** (651) 602-1083  
**E-mail:** *miriam.lopez.rieth@metc.state.mn.us*

### **Metropolitan Council - Metropolitan Transportation Services Request for Proposals for West Hennepin County Dial-A-Ride Transit Service Procurement No. 7673**

Metropolitan Transportation Services, a division of the Metropolitan Council, is seeking proposals to provide contract transit operations known as West Hennepin County Dial-A-Ride Transit Service. This dial-a-ride service will require five buses and will operate weekdays in the three service areas of West Hennepin County, North Hennepin County, and the city of Edina. The contract will be for a term of two years commencing June 9, 2008.

A pre-proposal conference will be held at 1:00 p.m. on Wednesday, March 12, 2008 at the Metropolitan Council offices, 390 N. Robert Street, St. Paul, MN 55101.

Proposals are due no later than 2:00 p.m. on Friday, March 28, 2008.

Firms interested in receiving the Request for Proposals document should contact:

Candace Osiecki  
Metro Transit Purchasing Department  
515 N. Cleveland Avenue  
St. Paul, MN 55114  
**Phone:** (612) 349-5070  
**Fax:** (612) 349-5069  
**E-mail:** *candace.osiecki@metc.state.mn.us*

### **University of Minnesota (U of M) Subscribe to Bid Information Service (BIS)**

The University of Minnesota offers 24-hour/day, 7-day/week access to all Request for Bids/Proposals through its web-based Bid Information Service (BIS). Subscriptions to BIS are free. Visit our website at [bidinfo.umn.edu](http://bidinfo.umn.edu) or call the BIS Coordinator at (612) 625-5534.

Request for Bids/Proposals are also available to the public each business day from 8:00 a.m. to 4:30 p.m. in the Purchasing Services lobby, Suite 560, 1300 S. 2nd Street, Minneapolis, Minnesota 55454.

