MISSOURI REGISTER

SECRETARY OF STATE

MATT BLUNT



Volume 29, Number 6 Pages 455–528 March 15, 2004 The *Missouri Register* is an official publication of the state of Missouri, under the authority granted to the secretary of state by sections 536.015 and 536.033, RSMo 2000. Reproduction of rules is allowed; however, no reproduction shall bear the name *Missouri Register* or "official" without the express permission of the secretary of state.

The Missouri Register is published semi-monthly by

SECRETARY OF STATE

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ISSN 0149-2942, USPS 320-630; periodical postage paid at Jefferson City, MO Subscription fee: \$56.00 per year

POSTMASTER: Send change of address notices and undelivered copies to:

MISSOURI REGISTER Office of the Secretary of State Administrative Rules Division PO Box 1767 Jefferson City, MO 65102

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Missouri



REGISTER

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Documents will be accepted for filing on all regular workdays from 8:00 a.m. until 5:00 p.m. We encourage early filings to facilitate the timely publication of the *Missouri Register*. Orders of Rulemaking appearing in the *Missouri Register* will be published in the *Code of State Regulations* and become effective as listed in the chart above. Advance notice of large volume filings will facilitate their timely publication. We reserve the right to change the schedule due to special circumstances. Please check the latest publication to verify that no changes have been made in this schedule. To review the entire year's schedule, please check out the website at http://www.sos.mo.gov/adrules/pubsched.asp

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RULES—Cite material in the *Missouri Register* by volume and page number, for example, Vol. 28, *Missouri Register*, page 27. The approved short form of citation is 28 MoReg 27.

The rules are codified in th	e Code of State Regulations in this sys	stem—		
Title	Code of State Regulations	Division	Chapter	Rule
1	CSR	10-	1.	010
Department		Agency, Division	General area regulated	Specific area regulated

They are properly cited by using the full citation, i.e., 1 CSR 10-1.010.

Each department of state government is assigned a title. Each agency or division in the department is assigned a division number. The agency then groups its rules into general subject matter areas called chapters and specific areas called rules. Within a rule, the first breakdown is called a section and is designated as (1). Subsection is (A) with further breakdown into paragraph 1., subparagraph A., part (I), subpart (a), item I. and subitem a.

RSMo-The most recent version of the statute containing the section number and the date.

Emergency Rules

Missouri Register

Rules appearing under this heading are filed under the authority granted by section 536.025, RSMo 2000. An emergency rule may be adopted by an agency if the agency finds that an immediate danger to the public health, safety or welfare, or a compelling governmental interest requires emergency action; follows procedures best calculated to assure fairness to all interested persons and parties under the circumstances; follows procedures which comply with the protections extended by the Missouri and the United States Constitutions; limits the scope of such rule to the circumstances creating an emergency and requiring emergency procedure, and at the time of or prior to the adoption of such rule files with the secretary of state the text of the rule together with the specific facts, reasons and findings which support its conclusion that there is an immediate danger to the public health, safety or welfare which can be met only through the adoption of such rule and its reasons for concluding that the procedure employed is fair to all interested persons and parties under the circumstances.

Rules filed as emergency rules may be effective not less than ten (10) days after filing or at such later date as may be specified in the rule and may be terminated at any time by the state agency by filing an order with the secretary of state fixing the date of such termination, which order shall be published by the secretary of state in the *Missouri Register* as soon as practicable.

All emergency rules must state the period during which they are in effect, and in no case can they be in effect more than one hundred eighty (180) calendar days or thirty (30) legislative days, whichever period is longer. Emergency rules are not renewable, although an agency may at any time adopt an identical rule under the normal rulemaking procedures.

Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT Division 240—Public Service Commission Chapter 32—Telecommunications Service

EMERGENCY RULE

4 CSR 240-32.200 General Provisions for the Assignment, Provision and Termination of 211 Service

PURPOSE: This rule applies to the assignment, provision and termination of 211 service and the commission's application requirements for Information and Referral Services Providers. This rule is intended to enhance the ability of the public to access services that provide free information and referral to community resources in situations that are not immediately life-endangering, but still represent a serious but less urgent threat to basic human needs and individuals' health or welfare.

EMERGENCY STATEMENT: This emergency rule is necessary to preserve a compelling governmental interest in promoting the availability of 211 service. The Federal Communications Commission assigned 211 as a national abbreviated dialing code to be used for calls to community information and referral services. These calls involve needs vital to the welfare of individuals, families and communities, such as shelter needs, utility issues critical in inclement weather, medical aid, child and spousal abuse counseling, etc.

Currently, Missouri does not have 211 service anywhere in the state and no commission rules exist for offering 211 service. The commission has received an application from a United Way organization requesting designation as the 211 provider in SBC Missouri exchanges in sixteen (16) Missouri counties. In response to this application, the commission staff has worked with the United Way organization and SBC Missouri to develop the emergency rule language. Staff has also worked with SBC Missouri on tariff language that would set forth the rates, terms and conditions for making 211 service available. This emergency rule establishes requirements for an organization to be designated as a 211 provider and for the provision of 211 service. The commission has used procedures best calculated to assure fairness to all interested persons and parties under the circumstances because it has discussed the emergency rule with United Way and SBC Missouri, the most immediately affected parties. This emergency rule follows procedures which comply with the protections extended by the Missouri and United States Constitutions. The scope of this emergency rule is limited to the circumstances creating an emergency and requiring emergency action. This emergency rule was filed February 9, 2004, effective March 15, 2004, and expires September 10, 2004.

PUBLISHER'S NOTE: The secretary of state has determined that the publication of the entire text of the material which is incorporated by reference as a portion of this rule would be unduly cumbersome or expensive. Therefore, the material which is so incorporated is on file with the agency who filed this rule, and with the Office of the Secretary of State. Any interested person may view this material at either agency's headquarters or the same will be made available at the Office of the Secretary of State at a cost not to exceed actual cost of copy reproduction. The entire text of the rule is printed here. This note refers only to the incorporated by reference material.

(1) Definitions. For the purposes of 4 CSR 240-32.200, the following definitions are applicable:

(A) 211 is an abbreviated dialing code assigned by the Federal Communications Commission for community information and referral services.

(B) Abbreviated dialing code is a three (3)-digit dialing pattern which enables callers to connect to a location in the telecommunications network that otherwise would be accessible only via a seven (7) or ten (10)-digit telephone number. The telecommunications network must be preprogrammed to translate the three (3)-digit code into the appropriate seven or ten (10)-digit telephone number and route the call accordingly.

(C) Accreditation is a process by which the Alliance of Information and Referral Systems determines whether information and referral programs are in compliance with the standards as set forth in the *Standards for Professional Information and Referral*, 4th edition, revised October 2002.

(D) Alliance of Information and Referral Systems (AIRS) is a nonprofit, professional membership organization for information and referral providers.

(E) Applicant is a non-profit organization as defined by section 501(c)(3) of the federal tax code that requests to be authorized by the commission to become a Missouri Information and Referral Provider (I&R Provider).

(F) Exchange is used as defined in section 386.020, RSMo 2000.

(G) Information and Referral Provider (I&R Provider) is an organization which helps match people with requested services. The I&R Provider acts as an intermediary, matching the person with the necessary combination of human services that will address the individual's needs.

(H) Missouri I&R Provider is an I&R Provider that has received authority pursuant to this rule.

(I) Qualified human services entity is an entity offering human services and complying with AIRS standards for database inclusion thus

making it eligible to be included in a Missouri I&R Provider's database

(J) Telecommunications company is used as defined in section 386.020, RSMo 2000.

(2) When a telecommunications company receives a request from an entity to use 211 as the Information and Referral Provider for a geographic area, the telecommunications company shall:

(A) Ensure that any entities that were using 211 at the local level prior to July 31, 2000 relinquish use of the code for noncompliant services;

(B) Take steps necessary (such as reprogramming switch software) to complete 211 calls from its subscribers to the Information and Referral Provider;

(C) Submit a tariff to the commission, if no tariff exists, incorporating rates, terms and conditions for 211 service;

(D) Determine that the entity is a Missouri I&R Provider or has submitted an application to become an authorized I&R Provider in Missouri.

(3) Entities interested in becoming a Missouri I&R Provider shall submit an application to the commission.

(A) All applications shall include a statement that the applicant meets the following criteria:

1. A statement that the applicant is a not-for-profit organization as defined by section 501(c)(3) of the federal tax code;

2. Adheres to the Alliance of Information and Referral Systems, Incorporated, *Standards for Professional Information and Referral*, 4th edition, revised October 2002, which is incorporated herein by reference, and is AIRS accredited, or has initiated the written application process and shall become accredited within three (3) years;

3. Offers comprehensive services pursuant to the AIRS standards;

4. Removes or excludes human services entities from the Missouri I&R Providers' database for failure to deliver service, fraud, misrepresentation and discrimination;

5. Provides teletype (TTY) services for speech and hearing impaired individuals and multi-lingual accessibility either on-site, or through access to translators.

(B) In addition to the requirements of subsection (A), all applications shall include:

1. A statement that the applicant possesses sufficient technical, financial and managerial resources and abilities to become the I&R Provider for the requested telephone exchanges;

2. A statement as to the applicant's ability and willingness to abide by commission rules and policies;

3. A statement that sets forth the exchange(s) to be served.

(4) Upon receipt of an application, the commission shall issue notice to all ILECs in the exchange(s) to be served, all facilities-based CLECs certificated to provide basic local telecommunications service, all human services entities listed in the yellow pages under the categories "Human Service Organizations" and "Social Service Organizations" for the exchanges to be served, all county seats for the requested exchanges, and all city governments in cities within the requested exchanges that have a population of five thousand (5,000) or more persons.

(A) The commission will authorize only one I&R Provider for each telephone exchange. This shall not preclude a Missouri I&R Provider from serving multiple telephone exchanges.

(B) The commission will grant an entity's application to become a Missouri I&R Provider unless it finds that granting the application is not in the public interest.

(5) A Missouri I&R Provider shall comply with the statements set forth in its application.

(6) A Missouri I&R Provider will be entitled to use the three (3) digit 211 abbreviated dialing code to serve the community for a period of three (3) years.

(7) A Missouri I&R Provider will be responsible for all costs of provisioning service, including nonrecurring and recurring charges incurred by the use of the abbreviated dialing code 211.

(8) Neither a telephone company nor a Missouri I&R Provider shall charge end users for 211 service.

(9) Any qualified human services entity may be listed in the Missouri I&R Provider's database at no charge. Missouri I&R Providers shall inform qualified human services entities that inclusion in the database is a privilege rather than a right and that they may be removed or excluded from the database for failure to deliver service, fraud, misrepresentation and discrimination.

(10) If the commission receives a formal complaint filed pursuant to 4 CSR 240-2 that a Missouri I&R Provider is in violation of the AIRS criteria, or of a statute, rule, order or tariff applicable to the provision of 211 service, or that its continued authorization is not in the public interest, the commission shall initiate an investigation of the complaint within twenty-one (21) calendar days after the filing of the written complaint and take action as appropriate, including but not limited to revocation of the Missouri I&R Provider's authorization.

(11) This rule is not subject to 4 CSR 240-32.010(3), which states that all telecommunications companies shall be in compliance with Chapter 32 requirements within six (6) months after the effective date of this rule and shall notify the commission of such compliance. All telecommunications companies and I&R Providers operating pursuant to this emergency rule shall comply with its requirements beginning on its effective date.

AUTHORITY: sections 386.040 and 386.250, RSMo 2000 and 392.200, RSMo Supp. 2003. Emergency rule filed Feb. 9, 2004, effective March 15, 2004, expires Sept. 10, 2004.

Proposed Rules

MISSOURI REGISTER

Under this heading will appear the text of proposed rules and changes. The notice of proposed rulemaking is required to contain an explanation of any new rule or any change in an existing rule and the reasons therefor. This is set out in the Purpose section with each rule. Also required is a citation to the legal authority to make rules. This appears following the text of the rule, after the word "Authority."

Entirely new rules are printed without any special symbology under the heading of the proposed rule. If an existing rule is to be amended or rescinded, it will have a heading of proposed amendment or proposed rescission. Rules which are proposed to be amended will have new matter printed in boldface type and matter to be deleted placed in brackets.

An important function of the *Missouri Register* is to solicit and encourage public participation in the rulemaking process. The law provides that for every proposed rule, amendment or rescission there must be a notice that anyone may comment on the proposed action. This comment may take different forms.

f an agency is required by statute to hold a public hearing before making any new rules, then a Notice of Public Hearing will appear following the text of the rule. Hearing dates must be at least thirty (30) days after publication of the notice in the *Missouri Register*. If no hearing is planned or required, the agency must give a Notice to Submit Comments. This allows anyone to file statements in support of or in opposition to the proposed action with the agency within a specified time, no less than thirty (30) days after publication of the notice in the *Missouri Register*.

An agency may hold a public hearing on a rule even though not required by law to hold one. If an agency allows comments to be received following the hearing date, the close of comments date will be used as the beginning day in the ninety (90)-day-count necessary for the filing of the order of rulemaking.

f an agency decides to hold a public hearing after planning not to, it must withdraw the earlier notice and file a new notice of proposed rulemaking and schedule a hearing for a date not less than thirty (30) days from the date of publication of the new notice.

Proposed Amendment Text Reminder: Boldface text indicates new matter. [Bracketed text indicates matter being deleted.]

> Title 4—DEPARTMENT OF ECONOMIC DEVELOPMENT Division 240—Public Service Commission Chapter 33—Service and Billing Practices for Telecommunications Companies

PROPOSED AMENDMENT

4 CSR 240-33.110 Commission Complaint Procedures. The Public Service Commission is adding new sections (3) and (4) and renumbering the subsequent section.

PURPOSE: This amendment sets forth a response time requirement for telecommunications companies to respond to commission staff inquiries related to informal complaints.

(3) A telecommunications company shall acknowledge or respond by fax transmission or electronic mail to all commission staff inquiries related to informal complaints as follows: (A) The company shall acknowledge receipt of inquiries related to denial or discontinuance of service issues within twentyfour (24) hours;

(B) The company shall acknowledge receipt of inquiries related to all other informal complaints within three (3) business days. Such acknowledgment shall include current account status and an estimated time frame for final response;

(C) If the company and commission staff have not informally agreed to a resolution to the informal complaint, the company shall provide a status report on the informal complaint within fifteen (15) days of receiving such inquiry unless the company and commission staff have agreed to an extension;

(D) The company shall provide, as soon as available, but no later than thirty (30) days after receiving such inquiry, the company's plan and time frame to resolve the informal complaint;

(E) If a formal complaint regarding the same inquiry is filed the company need not respond further to the informal complaint.

(4) If a telecommunications company and a customer fail to resolve a matter in dispute through the informal complaint process, the commission staff shall advise the customer of his/her right to file a formal complaint with the commission under 4 CSR 240-2.070.

[(3)](5) Pending the resolution of a complaint filed with the commission, the subject matter of such complaint shall not constitute a basis for discontinuance.

AUTHORITY: sections 386.040, [RSMo 1994] 386.250 and 392.200, RSMo [Supp. 1998] 2000. Original rule filed Jan. 14, 1977, effective Oct. 1, 1977. Rescinded and readopted: Filed Aug. 26, 1999, effective April 30, 2000. Amended: Filed Feb. 17, 2004.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COM-MENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Public Service Commission, Dale Hardy Roberts, Secretary, PO Box 360, Jefferson City, MO 65102, (573) 751-3234. To be considered, comments must be received at the commission's offices within thirty (30) days of publication in the Missouri Register, and should include a reference to Commission Case No. TX-2001-512. If comments are submitted via a paper filing, an original and eight (8) copies of the comments are required. Comments may also be submitted via a filing using the commission's electronic filing and information system at <http://www.psc.mo.gov/efis.asp>. A public hearing is scheduled for April 23, 2004, at 10:00 a.m., in Room 305 of the Governor Office Building, 200 Madison Street, Jefferson City, Missouri, for interested persons to appear and respond to commission questions. Any persons with special needs as addressed by the Americans with Disabilities Act should contact the Missouri Public Service Commission at least ten (10) days prior to the hearing at one of the following numbers: Consumer Services Hotline 1-800-392-4211, or TDD Hotline 1-800-829-7541.

Title 8—DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS Division 70—Missouri Assistive Technology Advisory Council Chapter 1—Assistive Technology Programs

PROPOSED AMENDMENT

8 CSR 70-1.010 Telecommunications Access Program. The council proposes to amend sections (5), (6), and (9).

PURPOSE: This amendment is being proposed to ensure appropriate match of equipment and person with a disability as required by law and to expedite equipment requests for certain consumers. The amendment also requires equipment approving agents participate in periodic training and allows applicants to request the same or similar replacement equipment without new disability certification.

(5) Approval of Certifying and Equipment Approving Agencies and Agents.

(B) Entities desiring to be designated as an equipment approval agent shall participate in **periodic** training provided by the program administrator. Such training shall include specific information about adaptive telecommunications equipment to support appropriate equipment selection. Upon satisfactory completion of **initial** training, the program administrator will provide equipment approval designation **and will thereafter renew equipment approval designation based on subsequent participation in required training.** Equipment approval agents who do not participate in periodic training shall not retain approval designation.

(6) Appeals Process. Applicants may appeal any disapproval of an equipment request by filing a written appeal with the Missouri Assistive Technology Advisory Council. No specific form shall be required. The appeal shall describe how the equipment requested is necessary for basic *[telephone]* telecommunications access and conforms with adopted program rules. The council may hear appeals during any regularly scheduled council meeting or may call a special meeting of the council for such purpose.

(9) TAP for Telephone Specific Procedures.

(B) Application Processing—The program administrator shall process TAP for telephone applications and deliver equipment and services that assure an appropriate match between an individual with a disability and adaptive equipment.

1. Each application shall be reviewed for completeness. If any information is missing, the applicant will be contacted and requested to supply such information.

2. Each applicant's eligibility will be verified by information provided on the application form.

3. If the application:

A. Requests the same equipment as was provided by the program at least four (4) years prior to this application, the prior equipment delivery will be verified and the new equipment request will be approved without new disability certification needed.

[A.] **B.** Requests equipment on the approved list, the request will be matched with disability description, as provided by the application form or equipment worksheet, and approved.

[B.] C. Requests equipment not on the approved list, the explanation will be reviewed to determine if the equipment is necessary for basic telephone access and is cost effective as compared to devices on the list. If so, the equipment request will be approved.

4. Upon verification of applicant eligibility and determination of equipment/disability match, the program administrator shall order the equipment from an approved vendor [and will notify the applicant that the equipment has been ordered].

5. Equipment orders shall include applicant name, make and model of equipment ordered, applicant shipping address, **phone number**, and date of order. The program administrator shall transmit equipment orders directly to the vendor by facsimile or via other time expedient mechanism that is mutually agreeable.

6. Applicants will be notified if their equipment request cannot be approved [as submitted and will be asked to revise their equipment request accordingly].

7. Upon receipt of equipment order, the vendor shall ship the equipment directly to the applicant's Missouri residence by verifiable delivery mechanism.

8. The vendor shall provide the program administrator with a monthly invoice of all equipment ordered and delivered.

9. The program administrator may establish alternative and pilot programs to increase program quality and consumer satisfaction. [A voucher program for targeted types of adaptive telephone equipment may be implemented as an option to increase consumer choice for those applicants who are experienced users of such equipment.]

(D) Equipment Ownership, Repair and Replacement -

1. Adaptive telephone equipment purchased for an individual applicant shall be owned by that applicant *[and applicants are in general responsible for service, repair, and replacement].*

2. Adaptive telephone equipment will be covered by [an extended warranty, purchased with the device,] the product warranty or by a one (1)-year express warranty provided via the Missouri Lemon Law for Assistive Devices.

3. The program administrator may provide a repair and replacement program.

[3.] 4. Miscellaneous supplies, such as Text Telephone (TTY) paper [and batteries], are the applicant's responsibility.

[4.] 5. An applicant shall be eligible for replacement equipment every four (4) years, unless their disability needs change. The program administrator may approve equipment replacement within this time period for extenuating circumstances.

[5.] 6. If an applicant's disability changes, rendering the adaptive telephone equipment inappropriate to meet their needs, the applicant may reapply for new equipment and shall provide a description of the disability change.

AUTHORITY: section 209.253, RSMo 2000. Emergency rule filed July 28, 2000, effective Aug. 28, 2000, expired Feb. 23, 2001. Original rule filed July 28, 2000, effective Jan. 30, 2001. Emergency amendment filed Dec. 21, 2000, effective Dec. 31, 2000, expired June 28, 2001. Amended: Filed Dec. 21, 2000, effective June 30, 2001. Amended: Filed Aug. 7, 2001, effective Feb. 28, 2002. Amended: Filed Feb. 4, 2004.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Assistive Technology Advisory Council, 4731 Cochise, Suite 114, Independence, MO 64055 or e-mail at matpmo@swbell.net. To be considered, comments must be received within thirty (30) days after publication of this notice in the **Missouri Register**. No public hearing is scheduled.

Title 8—DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

Division 70—Missouri Assistive Technology Advisory Council Chapter 1—Assistive Technology Programs

PROPOSED AMENDMENT

8 CSR 70-1.020 Assistive Technology Loan Program. The council proposes to amend the Purpose, sections (1) through (4), add a new section (5) and amend and renumber the remaining sections.

PURPOSE: This amendment is being proposed to address program expansion to include financial loans for equipment needed by individuals with disabilities to telework as authorized through federal funding.

PURPOSE: This rule establishes the standards and procedures for the provision of a statewide low-interest loan program providing financing to eligible persons for purchasing assistive technology devices and services and financing for equipment to be used by persons with disabilities to telework. This rule implements sections 191.850 through 191.867, RSMo 2000.

(1) Program Title. The assistive technology loan program established in sections 191.850 through 191.867, RSMo 2000, shall hereinafter be referred to as "Show-Me Loans for Assistive Technology and Telework."

(2) Definitions. As used in this rule, except as otherwise required for the context, the following terms have the meanings ascribed:

(E) Program—is the Show-Me Loans for Assistive Technology and Telework Program;

(F) Eligible applicant—is an individual seeking a loan to assist one (1) or more individuals with disabilities obtain an assistive technology device or service or obtain equipment for telework;

(H) Program administrator—is staff of Missouri Assistive Technology or other entity so designated by the Missouri Assistive Technology Advisory Council/./;

(I) Telework— is work as an employee or contractor or as a self-employed individual on a full-time or part-time basis from home or other remote site;

(J) Telework equipment— is equipment that will be used by an individual with a disability to work from home or from other remote site;

(K) Revolving loan—is a loan made directly from and repaid directly into the Assistive Technology Loan Revolving Fund;

(L) Commercial loan—is a loan from a commercial lending institution that is supported by a fee, loan guarantee, interest buy-down or other financial support through the Show-Me Loans program.

(3) Applicant Eligibility.

(A) Eligible applicants shall:

1. Be residents of Missouri;

2. Be seeking a loan that will assist an individual with a disability obtain an assistive technology device or service or obtain equipment for telework;

3. Meet program standards established by the council.

[(C) Eligible applicants shall have an annual adjusted gross income that does not exceed sixty thousand dollars (\$60,000) for an individual or an individual plus a second exemption, spouse or dependent. For each additional dependent claimed, five thousand dollars (\$5,000) shall be added to the sixty thousand dollars (\$60,000) base level.]

(4) [Assistive Technology Eligible for Loan Funds.] Equipment Eligible for Assistive Technology Loan Funds.

(A) Allowable devices shall include, but not be limited to:

[(A)] 1. Wheelchairs, motorized scooters and other mobility aids;

[(B)] 2. Braille equipment;

[(C)] 3. Scanners;

[(D)] 4. Hearing aids and other assistive listening systems;

[(E)] 5. Augmentative communication systems;

[(F)] 6. Environmental control units;

[(G)] 7. Computers and adaptive computer peripherals;

[(H)] **8.** Building modifications for accessibility **limited to the cost of the modifications**;

[(//] 9. Motor vehicle modifications for accessibility. Motor vehicles such as automobiles, vans, or trucks are not eligible items for revolving loans. [Building modifications for homes are limited to the cost of the modifications.]

(B) Loans are not permitted toward the purchase of a home.

(5) Equipment Eligible for Telework Loan Funds.

(A) Allowable equipment shall include, but not be limited to:

1. Computers and computer hardware and software;

2. Adaptive computer hardware or software;

3. Office equipment;

4. Adaptive equipment or devices needed to telework;

5. Access modifications to a home or remote site to be used in telework.

(B) Loans are not permitted toward the purchase of a building or for the purchase of services, including, but not limited to, monthly Internet service charges.

[(5)] (6) Loan Standards.

(A) Interest Rates. As a Special Purpose Credit Program under Section 8 of Regulation B of the Equal Credit Opportunity Act, the loan program may base interest rates on economic need rather than credit risk factors. The council shall establish an interest rate formula for borrowers based on individual payment abilities. [The interest rate for individuals with a gross annual income of thirty thousand dollars (\$30,000) or more shall not exceed the prime interest rate. The interest rate for individuals with a gross annual income of more than fifteen thousand dollars (\$15,000) but less than thirty thousand dollars (\$30,000) shall not exceed one (1) percentage point below the prime interest rate. The interest rate for individuals with a gross annual income of fifteen thousand dollars (\$15,000) or less shall not exceed two (2) percentage points below the prime interest rate. The interest rates for loans shall be lower than comparable commercial lending rates.] The interest rate for individuals with an adjusted gross annual income of sixty thousand dollars (\$60,000) or more shall be one (1) percentage point above the prime interest rate or higher. The interest rate for individuals with an adjusted gross annual income of at least thirty thousand dollars (\$30,000) but less than sixty thousand dollars (\$60,000) shall be the prime interest rate or lower. The interest rate for individuals with an adjusted gross annual income of at least fifteen thousand dollars (\$15,000) but less than thirty thousand dollars (\$30,000) shall be one (1) percentage point below the prime interest rate or lower. The interest rate for individuals with an adjusted gross income of less than fifteen thousand dollars (\$15,000) shall be two (2) percentage points below the prime interest rate or lower. Loans may be made with no interest.

(B) Principal Buy-Down. The council may establish criteria for a principal buy-down of not more than twenty percent (20%) of the loan principal for borrowers with financial circumstances who would otherwise be unable to afford a loan.

[(B)] (C) Repayment Periods. The council shall establish repayment periods for borrowers based on the ability to pay. Loan repayment periods for revolving loans shall not exceed ten (10) years.

[(C)] (D) Loan Amount. The maximum loan amount per applicant for [Fiscal Year 2002 shall be ten thousand dollars (\$10,000)] revolving loans for the fiscal year immediately following adoption of this rule shall be fifteen thousand dollars (\$15,000). Thereafter, the council shall have the authority to review and adjust the maximum loan amount.

[(D)] (E) Other. The council shall establish standards at the beginning of each year for matters necessary to implement the program. These standards shall include, but not be limited to, requirements for security or collateral for loans, and limits on the numbers and

amounts of loans to assure the continued solvency of the loan program fund.

[(6)] (7) Application Procedures. Individuals shall apply for the program, on forms approved by the program administrator, that include:

(A) Applicant name, home and mailing address, home and work phone, and Social Security number.

(B) If the applicant does not have a disability, a description of the applicant's relationship to the individual with a disability, the name of the person with a disability, if different from applicant; and the type of disability;

(C) Whether the applicant is applying as an individual or with a co-applicant;

(D) For an assistive technology loan, *[//identification of the assistive technology that the applicant plans to purchase; a description of how the assistive technology will improve the life of the person with a disability; the cost of the assistive technology; amount of loan requested; and the name, address and phone number of the vendors, contractors, or individuals from whom the assistive technology will be purchased;*

(E) For a telework loan, identification of the telework equipment that the applicant plans to purchase; the cost of the telework equipment; amount of loan requested; and the name, address and phone number of the vendors, contractors, or individuals from whom the telework equipment will be purchased; and other pertinent information in a format to be determined by the program administrator;

[(E)] (F) Certification by the applicant that they authorize the program administrator to check the applicant's credit, make all inquiries necessary to verify the accuracy of the information provided, and share all financial, credit, and other pertinent information with required entities for the sole purposes of loan approval and loan maintenance;

[(F)] (G) Whether the applicant rents or owns housing; name of landlord or mortgagor; monthly rent or mortgage payment; years and months living at current address and at previous address; name, address, and phone number of current employer; amount of gross monthly income from employment; source and monthly amount of income other than employment; name, address, and phone number of previous employer; years and months at current employer and previous employer; position or occupation at current employer and at previous employer; whether the applicant has a checking or a savings account; the bank name that holds the checking or savings account; and the names, addresses, phone numbers, and relationship to the applicant of the two (2) closest living relatives not living at applicant's address. If there is a co-applicant, all information in section (6) is also required for the co-applicant including a spouse if the spouse is contractually liable for repayment or if the applicant is relying on the income of spouse for approval of credit;

[(G)] **(H)** Information about the applicant's current financial obligations including, but not limited to: financial institutions, department stores, credit cards, leases, unpaid taxes, alimony and child support. The applicant shall include information including the responsibility of the applicant and any co-applicant, the name of creditors, current outstanding balances, monthly or other term payments;

[(H)] (I) Information required by federal or state statute;

[(I)] (J) A statement to be signed by the applicant verifying the truthfulness and accuracy of all information submitted;

[(J)] (**K**) In addition to information required on the application, applicants shall supply any additional information and supporting documentation which the program administrator deems reasonably necessary to determine the applicant's eligibility to receive a loan through the program.

[(7)] (8) Application Review Procedures.

(A) Initial Application Review. Upon receipt of an application, the program administrator will perform an initial review to verify that the applicant is seeking a loan for assistive technology **or telework**

for an individual with a disability. The program administrator will perform an initial review of the applicant's creditworthiness, ability to repay the loan, and ability to meet the eligibility criteria established by the council.

(B) Loan Application Review. Following initial application review, the application will be submitted by the program administrator for approval or denial by the loan application review committee.

1. The loan application review committee shall consist of no fewer than five (5) members and no more than eleven (11) members. At least one (1) member shall be a Missouri Assistive Technology Advisory Council member. A majority of members shall be individuals with disabilities or individuals who have a family member with disability. The council shall appoint loan application review committee members for three (3)-year terms.

2. The loan application review committee shall approve or deny applications **for revolving loans** based on the eligibility criteria and financial standards established by the council.

3. The loan application review committee shall approve or deny applications for commercial loans based on the eligibility criteria and financial standards established by the council, and shall forward the application to the commercial lending institution for review and final approval or denial.

(C) Approved Loan Processing.

1. For revolving loans, *[7]* the program administrator shall prepare a resolution on behalf of the council that will serve as an invoice for payment purposes upon approval of a loan application.

2. [The program administrator shall submit by fax the resolution and all other necessary paperwork to immediately transfer funds from the Assistive Technology Revolving Loan Fund to the entity initiating the loan.] For commercial loans approved by the commercial financial institution, the program administrator shall prepare a resolution and process the corresponding payment to support the loan.

(D) Denied Loan Processing. The program administrator shall notify the applicant in writing following the denial of a loan application. The notification shall include information about how to appeal the denial decision.

[(8)] (9) Appeals Process.

(A) Applicants may appeal any disapproval of a **revolving** loan application by filing a written appeal with the Missouri Assistive Technology Advisory Council. No specific form shall be required. The council may hear appeals during any regularly scheduled council meeting or may call a special meeting of the council for such purpose. The council's decision regarding approval or denial of a loan shall be final.

(B) Applicants may appeal any disapproval of a commercial loan using the commercial lending institution's appeal procedures.

[(9)] (10) Fraud. If an applicant supplies false information or obtains a loan through misrepresentation of facts on the application, the program administrator may demand return of the item(s) for which the loan was provided and may declare such applicants ineligible for future loans.

AUTHORITY: section 191.865, RSMo 2000. Original rule filed July 10, 2001, effective Jan. 30, 2002. Amended: Filed Feb. 4, 2004.

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Assistive Technology Advisory Council, 4731 Cochise, Suite 114, Independence, MO 64055 or e-mail at matpmo@swbell.net. To be considered, comments must be received within thirty (30) days after publication of this notice in the **Missouri Register**. No public hearing is scheduled.

Title 10—DEPARTMENT OF NATURAL RESOURCES Division 60—Public Drinking Water Program Chapter 5—Laboratory and Analytical Requirements

PROPOSED AMENDMENT

10 CSR 60-5.010 Accepted and Alternate Procedures for Analyses. The commission is amending sections (1)–(6).

PURPOSE: This proposed amendment updates analytical methods required by various federal rules, including the Radionuclide Rule, Stage 1 Disinfectants/Disinfection By-Products Rule, and the Interim and Long-Term 1 Enhanced Surface Water Treatment Rules. The style of the rule is changed to incorporation by reference rather than repeating the text of the federal requirements here.

(1) Inorganic and [Radiological] Secondary Contaminants. Unless substitute methods are approved by the department, analysis shall be conducted in accordance with the [methods listed in the following table. All analytical methods listed in this rule] inorganic and secondary contaminant analytical methods in paragraphs 40 CFR 141.23(k)(1) and 40 CFR 143.4(b) of the July 1, 2003 Code of Federal Regulations, which are incorporated by reference in this rule. [Criteria for analyzing arsenic, barium, beryllium, cadmium, calcium, chromium, copper, lead, nickel, selenium, sodium, and thallium with digestion or directly without digestion, and other analytical test procedures are contained in "Technical Notes on Drinking Water Methods," EPA-600/R-94-173, October 1994. This document also contains approved analytical test methods which remain available for compliance monitoring until July 1, 1996. These methods will not be available for use after July 1, 1996. This document is available from the National Technical Information Service, NTIS PB95-104766, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. The toll free number is 800-553-6847.]

	Methodology	Method	Reference
	(if appropriate)	(if appropriate)	
luna in una	Industively Counted Plasma, Emission Spectroscomy	200.7	22
luminum	Inductively Coupled Plasma—Emission Spectroscopy	200.7	
		3120 B	17
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
	Atomic Absorption—Platform Technique	200.9	22
		3113 B	17
		3111 D	17
ntimony	Atomic Absorption—Gaseous Hydride	D3697-92	19
incliniony			
	Atomic Absorption—Graphite Furnace	3113 B	17
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
	Atomic Absorption—Platform Technique	200.9	22
roonio	Atomia Abasentian Cranbita Europea		10
rsenic	Atomic Absorption—Graphite Furnace	D2972-93C	19
		3113 B	17
	Atomic Absorption—Gaseous Hydride	D2972-93B	19
	,	3114 B	17
	Atomia Abacamtics Disting	-	
	Atomic Absorption—Platform	200.9	22
	Inductively Coupled Plasma—Emission Spectroscopy	200.7	22
		3120 B	17
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
sbestos	Transmission Electron Microscopy	100.1	7
		100.2	27
arium	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
	Atomic Absorption—Graphite Furnace	3113 B	17
	Atomic Absorption—Direct Aspiration	3111 D	17
	Inductively Coupled Plasma—Emission Spectroscopy	200.7	22
		3120 B	17
eryllium	Atomic Absorption—Graphite Furnace	D3645-93B	19
		3113 B	17
	Atomic Absorption—Platform	200.9	22
	Inductively Coupled Plasma—Emission Spectroscopy	3120 B	17
		200.7	22
	Inductively Coupled Plasma—Mass Spectrometry	200.7	22
		200.0	22
romate	Ion Chromatography	300.1	31
romide	Ion Chromatography	300.0	25
	omoniatography	300.1	31
		300.1	31
admium	Atomic Absorption—Graphite Furnace	3113 B	17
	Atomic Absorption—Platform	200.9	22
	Inductively Coupled Plasma—Emission Spectroscopy	200.7	22
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
hloride		300.0	25
nonac			
		D4327-91	19
		4500-CI⁻ D	17
hlorite	Ion Chromatography	300.0	25
	ion onionatography	300.1	31
			-
hromium	Atomic Absorption—Furnace Technique	3113 B	17
	Atomic Absorption—Platform	200.9	22
in onnum			
in onnann		200.7	22
monnann	Inductively Coupled Plasma—Emission Spectroscopy	200.7	22
nonnann	Inductively Coupled Plasma—Emission Spectroscopy	3120 B	17
in onnann			
nonnann	Inductively Coupled Plasma—Emission Spectroscopy Inductively Coupled Plasma—Mass Spectrometry	3120 B	17

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Contaminant	Methodology	Method	Reference
	(if appropriate)	(if appropriate)	
opper	Atomic Absorption—Furnace Technique	D1688-90C	19
		3113 B	17
	Atomic Absorption—Platform	200.9	22
	Atomic Absorption—Direct Aspiration	D1688-90A	19
		3111 B	17
	Inductively Coupled Plasma	200.7	22
		3120 B	17
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
yanide	Manual distillation followed by—	4500-CN⁺ C	17
yannac	1. Amenable Spectrophotometric	D2036-91B	19
	1. Amenable Specifopholometric		
		4500-CN ⁻ G	17
	2. Spectrophotometric—Manual	D2036-91A	19
		4500-CN⁻ E	17
	2 Spectrophotomotric	1-3300-85	24
	3. Spectrophotometric – Manual – Semiautomated	335.4	25
	4. Selective Electrode	4500-CN ⁻ F	17
		-300-014 1	
ssolved Organic arbon (DOC)	High Temperature Combusties	5010 D	20
arbon (DUC)	High-Temperature Combustion	5310 B	29
	Persulfate-Ultraviolet or Heated-Persulfate Oxidation	5310 C	29
	Wet-Oxidation	5310 D	29
uoride	Colorimetric SPADNS, with distillation	4500-F B&D	17
	Ion Chromatography	300.0	25
		D4327-91	19
		<i>4110B</i>	17
	Manual Electrode	D1179-93B	19
		4500-F ⁻ C	17
	Automated Alizarin Fluoride Blue, with		
	distillation (complexone)	4500-F E	17
		129-71W	9
	Automated Ion Selective Electrode	380-75WE	10
paming Agents		5540 C	17
on		200.7	22
		200.9	22
		3120 B	17
		3120 B 3111 B	17
		3113 B	17
ad	Atomic Absorption—Furnace Technique	D3559-90D	19
au	Alonne Absorption-i unace lecinique		
	Inductively Counted Discuss Mars O	3113 B	17
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
	Atomic Absorption—Platform Furnace	200.9	22
anganese		200.7	22
		200.8	22
		200.9	22
		3120 B	17
		3111 B	17
		3113 B	17
ercury	Manual cold vapor technique	245.1	22
croury	νιαπααί σοια ναροί τεσπητίμε	D3223-91	19
		3112 B	17

Contaminant	Methodology	Method	Reference
	(if appropriate)	(if appropriate)	
lercury (cont.)	Automated cold vapor technique	245.2	1
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
	inductively Coupled Flashia—Mass Spectrometry	200.8	22
ickel	Atomic Absorption—Direct Aspiration	3111 B	17
	Atomic Absorption—Platform Technique	200.9	22
	Inductively Coupled Plasma—Emission Spectroscopy	200.7	22
		3120 B	17
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
	Atomic Absorption—Graphite Furnace	3113 B	17
			10
litrate	Manual Cadmium Reduction	D3867-90B	19
		4500-NO ₃ ⁻ E	17
	Automated Cadmium Reduction	353.2	25
		D3867-90A	19
		4500-N0 ₃ - F	17
	Ion Selective Electrode	4500-NO ₃ ⁻ D	17
		<i>601</i>	26
	Ion Chromatography	300.0	25
	ion emonialography	B1011	8
		4110 B	17
		D4327-91	19
litrite	Spectrophotometric	4500-NO ₃ - B	17
	Automated Cadmium Reduction	353.2	25
		D3867-90A	19
			17
		4500-NO ₃ - F	
	Manual Cadmium Reduction	D3867-90B	19
		4500-NO ₃ - E	17
	Ion Chromatography	300.0	25
		B1011	8
		D4327-91	19
		4110 B	17
dor		2150 B	17
Descriptional Manitaring			
perational Monitoring– Disinfection Byproduct			
Chlorite	Amperometric Titration	4500-CIO ₂ E	28
emente		1000 01022	20
Operational Monitoring-	-		. –
General			17
perational Monitoring-	-		
Lead and Copper			
Regulation	pH Electrometric	150.1	1
. logalation		150.2	1
		D1293-84	, 19
		<i>БТ293-84</i> 4500-Н+-В	19
	Constructivity		
	Conductivity	D1125-91A	19
		2510 B	17
	Calcium (EDTA Titrimetric)	D511-93A	19
		3500-Ca-D	17
	(Inductively Coupled Plasma)	200.7	22
		3120 B	17
	(Atomic Absorption—Direct Aspiration)	D511-93B	19
		3111 B	17
	Aller limite (Titains stain)		
	Alkalinity (Titrimetric)	D1067-92B	19
		2320 B	17
	(Electrometric Titration)	I-1030-85	24

Contaminant	Methodology	Method	Reference
	(if appropriate)	(if appropriate)	
)			
Operational Monitoring	_		
Lead and Copper Regulation (cont.)	Arthophosphata (unfiltered no direction		
	Orthophosphate (unfiltered, no digestion or hydroloysis)		
	(Colorimetric, automated ascorbic acid)	365.1	25
		4500-P-F	17
	(Colorimetric, ascorbic acid single reagent)	D515-88A	19
	follommetric, ascorbic acia single reagenty	4500-P-E	17
	(Colorimetric, phosphomolybdate,	I-1601-85	24
	automated-segmented flow,	1-2601-90	24
	automated discrete)	1-2598-85	24
	(Ion Chromatography)	300.0	25
		D4327-91	19
		4110	17
	Silica (Cholorimetric, molybdate		
	blue, automated-segmented flow)	<i>I-1700-85</i>	24
		<i>I-2700-85</i>	24
	(Colorimetric)	D859-88	19
	(Molybdosilicate)	4500-Si-D	17
	(Heteropoly blue)	4500-Si-E	17
	(Automated method for molybdate-reatine silica)	4500-Si-F	17
	(Inductively Coupled Plasma)	200.7	22
		3120 B	17
Descriptions/ Manitories			
Dperational Monitoring		150.1	1
рН	pH Value	150.2	1 1
		D1293-84	19
		4500-Н+ В	17
		4300-11 B	,,,
Operational Monitoring Residual Disinfectant	_		
Monitoring— Chlorine Dioxide	Amperometric Method II	4500 CIO E	28
Chionne Dioxide	DPD Method	4500-CIO ₂ E 4500-CIO ₂ D	20 28
		4300-CIO ₂ D	20
Combined Chlorine	Amperometric Titration	4500-CI D	28
		D 1253-86	30
	DPD Ferrous Titrimetric	4500-CI F	28
	DPD Colorimetric	4500-CI G	28
Free Chlorine	Amperometric Titration	4500-CI D	28
Fiee Chionne	Amperometric Intration	D 1253-86	20 30
	DPD Ferrous Titrimetric	4500-CI F	28
	DPD Colorimetric	4500-C/ G	28
	Syringaldazine (FACTS)	4500-CI H	28
		D 1253-86	30
		D 1200 00	00
Dzone	Indigo	4500-0 B	17
Total Chlorine	Amperometric Titration	4500-CI D	28
		D 1253-86	30
		4500-Cl E	28
	Low Level Amperometric Titration		
	DPD Ferrous Titrimetric	4500-CI F	28
	DPD Ferrous Titrimetric DPD Colorimetric	4500-CI G	28
	DPD Ferrous Titrimetric		
Opprational Manifasia	DPD Ferrous Titrimetric DPD Colorimetric Iodometric Electrode	4500-CI G	28
	DPD Ferrous Titrimetric DPD Colorimetric Iodometric Electrode —	4500-Cl G 4500-Cl l	28 28
Operational Monitoring Temperature	DPD Ferrous Titrimetric DPD Colorimetric Iodometric Electrode	4500-CI G	28
Operational Monitoring Temperature Radionuclides	DPD Ferrous Titrimetric DPD Colorimetric Iodometric Electrode —	4500-Cl G 4500-Cl l	28 28
Temperature	DPD Ferrous Titrimetric DPD Colorimetric Iodometric Electrode —	4500-Cl G 4500-Cl l	28 28 17
Temperature	DPD Ferrous Titrimetric DPD Colorimetric Iodometric Electrode —	4500-Cl G 4500-Cl l	28 28 17 11
Temperature	DPD Ferrous Titrimetric DPD Colorimetric Iodometric Electrode —	4500-Cl G 4500-Cl l	28 28 17 11 12

Contaminant	Methodology		Reference
	(if appropriate)	(if appropriate)	
Radionuclides (cont.)	Microquantities of Uranium in		
,	Water by Fluorometry	D2907	2
Secondary Contaminan	its		3
Selenium	Atomic Absorption—Hydride Generation	D3859-93A	19
		3114 B	17
	Atomic Absorption—Graphite Furnace	D3859-93	19
		3113 B	17
	Atomic Absorption—Platform	200.9	22
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
Silver	Atomic Absorption—Graphite Furnace	<i>I-3720-85</i>	24
	Inductively Coupled Plasma—Emission Spectroscopy	200.7	22
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
	Atomic Absorption—Platform Technique	200.9	22
		3120 B	17
		3111 B	17
		3113 B	17
Sulfate	Colorimetric—Methylthymol blue	375.2	25
	Gravimetric	4500-S0 ₄ ²⁻ C, 1	D 17
	Turbidimetric	4500-S0 ₄ ²⁻ F	17
	Ion Chromatography	300.0	25
		4110	17
		D4327-91	19
hallium	Atomic Absorption—Platform Technique	200.9	22
	Inductively Coupled Plasma—Mass Spectrometry	200.8	22
Fotal Dissolved Solids		2540 C	17
Total Organic Carbon			
(TOC)	High-Temperature Combustion	5310 B	29
	Persulfate-Ultraviolet or Heated-Persulfate Oxidation	5310 C	29
	Wet-Oxidation	5310 D	29
<i>urbidity</i>	Nephelometric	2130 B	17
,		180.1	25
	Great Lakes Instruments	Method 2	18
Sodium	Inductively Coupled Plasma	200.7	22
	Atomic Absorption—Direct Aspiration	3111 B	17
JItraviolet Absorption :	at		
	at Ultraviolet Absorption	5910 B	28
Iltraviolet Absorption a 254 nm (UV ₂₅₄) Zinc		5910 B 200.8	28 22

Footnotes

1) If approved by the department, systems may also measure residual disinfectant concentrations for chlorine, chloramines, and chlorine dioxide by using DPD colorimetric test kits.

2) A party approved by the department must measure residual disinfectant concentration.

3) Amperometric titration may be used for routine daily monitoring of chlorite at the entrance to the distribution system. Ion chromatography must be used for routine monthly monitoring of chlorite and additional monitoring of chlorite in the distribution system.

4) TOC samples may not be filtered prior to analysis. TOC samples must either be analyzed or must be acidified to achieve pH less than 2.0 by minimal addition of phosphoric or sulfuric acid as soon as practical after sampling, not to exceed twenty-four (24) hours. Acidified TOC samples must be analyzed within twenty-eight (28) days.

5) UV absorption must be measured at 253.7 nm (may be rounded off to 254 nm). Prior to analysis, UV₂₅₄ samples must be filtered through a 0.45 μ m pore-diameter filter. The pH of UV₂₅₄ samples may not be adjusted. Samples must be analyzed as soon as practical after sampling, not to exceed forty-eight (48) hours.

6) Specific Ultraviolet Absorbance (SUVA). SUVA is equal to the UV absorption at 254 nm (UV₂₅₄) (measured in m⁻¹) divided by the dissolved organic carbon (DOC) concentration (measured as mg/l)). In order to determine SUVA, it is necessary to separately measure UV_{254} and DOC. When determining SUVA, systems must use the methods stipulated in subparagraph (7)(D)4.A. of this rule to measure DOC and the method stipulated in subparagraph (7)(D)4.B. of this rule to measure UV_{254} . SUVA must be determined on water prior to the addition of disinfectants/oxidants by the system. DOC and UV_{254} samples used to determine a SUVA value must be taken at the same time and at the same location.

7) Prior to analysis, DOC samples must be filtered through a 0.45 μ m pore-diameter filter. Water passed through the filter prior to filtration of the sample must serve as the filtered blank. This filtered blank must be analyzed using procedures identical to those used for analysis of the samples and must meet the following criteria: DOC < 0.5 mg/L. DOC samples must be filtered through the 0.45 μ m pore-diameter filter prior to acidification. DOC samples must either be analyzed or must be acidified to achieve pH less than 2.0 by minimal addition of phosphoric or sulfuric acid as soon as practical after sampling, not to exceed forty-eight (48) hours. Acidified DOC samples must be analyzed within twenty-eight (28) days.]

[(A) References for analytical methods incorporated by reference in 10 CSR 60-5.010(1).

1. "Methods of Chemical Analysis of Water and Wastes," EPA Environmental Monitoring and Support Laboratory, Cincinnati, OH 45268 (EPA-600/4-79-020), March 1983. Available from National Technical Information Service, PB84-128677. Methods 150.1, 150.2 and 246.2 are also available from U.S. EPA, EMSL, Cincinnati, OH 45268.

2. Annual Book of ASTM Standards, Vols. 11.01 and 11.02, 1991, American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

3. Standard Methods for the Examination of Water and Wastewater, 16th edition, American Public Health Association, American Water Works Association, Water Pollution Control Federation, 1985.

4. "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments," Techniques of Water-Resources Investigations of the U.S. Geological Survey Books, Book 5, Chapter A1, Third Edition, 1989. Available at Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

5. "Orion Guide to Water and Wastewater Analysis." Form WeWWG/5880, p. 5, 1985. Orion Research, Inc., Cambridge, MA 02139.

6. 200.7A "Inductively Coupled Plasma Atomic Emission Analysis of Drinking Water," Appendix to Method 200.7, March 1987, U.S. EPA, Environmental Monitoring and Support Laboratory, Cincinnati, OH 45268.

7. "Analytical Method for Determination of Asbestos Fibers in Water," Method 100.1, EPA-600/4-83-043, September 1983. Available from National Technical Information Service, PB83-260471.

8. "Waters Test Method for the Determination of Nitrite/Nitrate in Water Using Single Column Ion Chromatography," Method B-1011, Millipore Corporation, Waters Chromatography Division, 34 Maple Street, Milford, MA 01757.

9. "Fluoride in Water and Wastewater," Industrial Method 129-71W, Technicon Industrial Systems, Tarrytown, NY 10591, December 1972.

10. "Fluoride in Water and Wastewater," Industrial Method No. 380-75WE, Technicon Industrial Systems, Tarrytown, NY 10591, February 1976.

11. "Radiochemical Methodology for Drinking Water," Environmental Monitoring Support Laboratory, EPA-600/4-75-008, U.S. EPA, Cincinnati, OH 45268. 12. "Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions," H.L. Krieger and S. Gold, EPA-R4-730014, U.S. EPA, Cincinnati, OH, May 1973.

13. HASL Procedure Manual, edited by John H. Harley, HASL 300, ERDA Health and Safety Laboratory, New York, NY, 1973.

14. "Determination of and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry," Method 200.8, version 4.3, August 1990, EPA, Environmental Monitoring and Systems Laboratory, Cincinnati, OH 45268. Available from ORD Publication, CERI, EPA, Cincinnati, OH 45268.

15. "Determination of Metals and Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption Spectrometry," Method 200.9, version 1.1, August 1990, EPA, Environmental Monitoring and Systems Laboratory, Cincinnati, OH 45268.

16. "Determination of Ozone in Water by the Indigo Method; A Submitted Standard Method," Ozone Science and Engineering, Volume 4, pages 169–176, Pergamon Press Ltd., 1982.

17. Standard Methods for the Examination of Water and Wastewater, 18th edition, American Public Health Association, American Water Works Association, Water Pollution Control Federation, 1992.

18. "Turbidity," GLI Method 2, November 2, 1992, Great Lakes Instruments, Inc., 8855 North 55 Street, Milwaukee, WI 53223.

19. Annual Book of ASTM Standards, Vols. 11.01 and 11.02, 1994, American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

20. "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry" Method 200.8, August 1990, Revision 3.2 EPA EMSL. Available from U.S. EPA, EMSL Cincinnati, OH 45268.

21. "Determination of Inorganic Ions in Water by Ion Chromatography" Method 300.8, December 1989, U.S. EPA EMSL. Available from U.S. EPA, EMSL, Cincinnati, OH 45268.

22. "Methods for the Determination of Metals in Environmental Samples—Supplement I, EPA-600/R-94-111, May 1994." Available from National Technical Information Service (NTIS) NTIS PB 94-184942, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. The toll free number is (800) 553-6847. 23. "Method 300. Determination of Inorganic Anions in Water by Ion Chromatography." Inorganic Chemistry Branch, Environmental Monitoring Systems Laboratory, August 1991.

24. Available from the Books and Open-File Reports Section, United States Geological Survey, Federal Center, Box 25425, Denver, CO 80225-0425.

25. "Methods for the Determination of Inorganic Substances in Environmental Samples," EPA-600/R-93-100, August 1993. Available from National Technical Information Service, PB94-121811.

26. The procedure shall be done in accordance with the Technical Bulletin 601, "Standard Method of Test for Nitrate in Drinking Water," July 1994, PN 221890-001, Analytical Technology, Inc. Available from ATI, Orion, 529 Main Street, Boston, MA 02129.

27. "Determination of Asbestos Structure over 10-µm in Length in Drinking Water," Method 100.2, EPA-600/R-94-134, June 1994. Available from NTIS, PB94-201902.

28. Standard Methods for the Examination of Water and Wastewater, 19th edition, American Public Health Association, 1995. Copies may be obtained from the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005.

29. Supplement to the 19th Edition of Standard Methods for the Examination of Water and Wastewater, American Public Health Association, 1996. Copies may be obtained from the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005.

30. Annual Book of ASTM Standards, Volume 11.01, American Society for Testing and Materials, 1996 edition. Copies may be obtained from American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohoken, PA 19428.

31. EPA Method 300.1 is titled "USEPA Method 300.1, Determination of Inorganic Anions in Drinking Water by Ion Chromatography, Revision 1.0," U.S. EPA, 1997, EPA/600/R-98/118 (available through NTIS, PB98-169196); also available from: Chemical Exposure Research Branch, Microbiological & Chemical Exposure Assessment Re-search Division, National Exposure Research Laboratory, U.S. Environmental Protection Agency, Cincinnati, OH 45268, fax number: 513-569-7757, phone number: 513-569-7586.]

(2) Organic Contaminants. Unless substitute methods are approved *[the following table includes acceptable analysis procedures incorporated by reference for organic contaminants]* by the department, analysis shall be conducted in accordance with the organic contaminant analytical methods in paragraph 40 CFR 141.24(e) of the July 1, 2003 Code of Federal Regulations, which is incorporated by reference in this rule.

[Contaminant	Method
2,3,7,8-TCDD (Dioxin)	1613
2,4-D	515.1
	515.2
	555
2,4,5-TP (Silvex)	515.1
	515.2
	555
3-Hydrodroxycarbofuran	531.1
	6610

[Contaminant	Method
Alachlor	505
	507
	525.2 508.1
Aldicarb	531.1
	6610
Aldicarb sulfoxide	531.1
	6610
Aldicarb sulfone	531.1
Aldrin	6610 505
Aldrin	505 508
	525.2
	508.1
Atrazine	505
	507
	525.2
	508.1
Benzo(a)pyrene	525.2 550
	550.1
Butachlor	507
	525.2
Carbaryl	531.1
	6610
Carbofuran	531.1
Chlordane	6610 505
Chlordane	508
	525.2
	508.1
Dalapon	515.1
	552.1
Di(2-ethylhexyl)adipate	506 525.2
Di(2-ethylhexyl)phthalate	506
	525.2
Dibromochloropropane (DBCP)	504.1
	551
Dicamba	515.1
	515.2 555
Dieldrin	505 505
Dicialiti	508
	508.1
	525.2
Dinoseb	515.1
	515.2
Diquat	555 549.1
Endothall	548.1
Endrin	505
	508
	525.2
Ethylana dibramida (EDP)	508.1 504.1
Ethylene dibromide (EDB)	504.1 551
Glyphosate	547
··	6651
Haloacetic Acids (HAA5)	552.1
	552.2
	6251 B

[Contaminant	Method	Footnotes
Heptachlor	505	1) A nitrogen-phosphorous detector should be substituted
	508	for the electron capture detector in Method 505 (or another
	525.2	approved method should be used) to determine alachlor,
	508.1	atrazine and simazine, if lower detection limits are required.
Heptachlor epoxide	505	2) PCBs are qualitatively identified as Aroclors and measured
	508	for compliance purposes as decachlorobiphenyl. Each sys-
	525.2	tem which monitors for PCBs shall analyze each sample
	508.1	using either Method 505 or Method 508.
Hexachlorobenzene	505	3) Analyses of total trihalomethanes shall be conducted in
	508	accordance with these methods and "Technical Notes on
	525.2	Drinking Water Methods," EPA-600/R94-173, October
	508.1	1994, which is available at NTIS, PB95-104766.
Hexachlorocyclopentadiene	505	4) In addition to Methods 502.2 and 524.2, analysis for bro-
	525.2	modichloromethane, bromoform, chlorodibromomethane,
	508	chloroform, carbon tetrachloride, tetrachlorethylene, 1,1,1- trichloroethane, and trichloroethylene may also be conduct-
	508.1	ed by EPA Method 551. Analysis for 1,2,3-trichloropropane
Lindane	505	may be conducted by Methods 502.1, 524.2 and 504.1.
	508	5) For method 502.2, if TTHMs are the only analytes being
	525.2	measured, then a photoionization detector is not required.
	508.1	
Methomyl	531.1	References for analytical methods incorporated by reference
	6610	in 10 CSR 60-5.010(2): Methods 505, 507, 508, 508A,
Methoxychlor	505	515.1 and 531.1 are in "Methods for the Determination of
	525.2	Organic Compounds in Drinking Water," EPA-600/4-88-
	508.1	039, December 1988, revised July 1991. Methods 506,
Metolachlor	507	547, 550, 550.1 and 551 are in "Methods for the Determin-
	508.1 525.2	tion of Organic Compounds in Drinking Water—Supplement
Motribusio	507	I," EPA-600-4-90-020, July 1990. Methods 515.2, 548.1,
Metribuzin	507	549.1, 552.1 and 555 are in "Methods for the
	525.2	Determination of Organic Compounds in Drinking Water—
Oxamyl (vydate)	531.1	Supplement II," EPA-600/R-92-129, August 1992. EPA
Oxamyr (vydale)	6610	Method 502.2, 524.2, 551.1, and 552.2 are in "Methods
Pentachlorophenol	515.1	for the Determination of Organic Compounds in Drinking
remachiorophenor	515.2	Water—Supplement III," U.S. EPA, August 1995,
	525.2	EPA/600/R-95/131. Method 1613 is titled "Tetra-through
	555	Octa-Chlorinated Dioxins and Furans by Isotope-Dilution
Picloram	515.1	HRGC/HRMS," EPA-821-B-94-005, October 1994. These
	515.2	documents are available from National Technical Information
	555	Service (NTIS) NTIS PB91-231480, PB91-146027, PB92- 207703, PB95-261616, and PB95-104774, U.S.
Polychlorinated biphenyls	505	207703, PB95-261616, and PB95-104774, U.S. Department of Commerce, 5285 Port Royal Road,
, , ,	(as	Springfield, VA 22161. The toll free number is (800) 553-
	Aroclors)	6847. Method 6651 shall be followed in accordance with
	508	the 18th edition of "Standard Methods for the Examination
	(as	of Water and Wastewater," 1992. Available from the
	Aroclors)	American Public Health Association, 1015 Fifteenth Street
	508A (as deca-	NW, Washington, DC 20005. Method 6610 shall be followed
	chlorobiphenyl)	in accordance with the "Supplement to the 18th Edition of
Propachlor	508	Standard Methods for the Examination of Water and
	508.1	Wastewater," 1994. Available from the American Public
	525.2	Health Association, 1015 Fifteenth Street NW, Washington,
Simazine	505	DC 20005. Method 6251 B shall be followed in accordance
	507	with the 19th edition of "Standard Methods for the
	508.1	Examination of Water and Wastewater," 1995. Available
	525.2	from the American Public Health Association, 1015
Toxaphene	505	Fifteenth Street, NW, Washington, DC 20005. EPA Methods
	508	504.1, 508.1 and 525.2 are available from U.S. EPA EMSL,
	525.2	Cincinnati, OH 45268. The phone number is (513) 569-
Total Trihalomethanes (TTHM)	502.2	7586. Other analytical test procedures are contained in
	524.2	Technical Notes on Drinking Water Methods, EPA-600/R-94-
	551.1	173, October 1994, NTIS PB95-104766.
Volatile Organic Chemicals		
(regulated and unregulated)	502.2	502.1 Volatile halogenated organic chemicals in water by
	524.2	purge and trap gas chromatography

- 502.2 Volatile organic compounds in water by purge and trap capillary column gas chromatography with photoionization and electrolytic conductivity detectors in series
- 503.1 Volatile aromatic and unsaturated organic compounds in water by purge and trap gas chromatography
- 504.1 1,2-Dibromoethane (EDB), 1,2-Dibromo-3-chloropropane (DBCP), and 1,2,3-Trichloropropane (123TCP) in Water by Microextraction and Gas Chromatography
- 505 Analysis of organohalide pesticides and commercial polychlorinated biphenyl products (Aroclors) in water by microextraction and gas chromatography
- 506 Determination of phthalate and adipate esters in drinking water by liquid-liquid extraction or liquidsolid extraction and gas chromatography with photoionization detection
- 507 Determination of nitrogen- and phosphorus-containing pesticides in groundwater by gas chromatography with a nitrogen-phosphorus detector
- 508 Determination of chlorinated pesticides in water by gas chromatography with an electron capture detector
- 508.1 Determination of chlorinated pesticides, herbicides, and organohalides by liquid-solid extraction and electron capture gas chromatography
- 508A Screening for polychlorinated biphenyls by perchlorination and gas chromatography (for quantification if detected with Method 505 or 508)
- 515.1 Determination of chlorinated acids in water by gas chromatography with an electron capture detector, revision 5.0, May 1991
- 524.1 Measurement of purgeable organic compounds in water by purged column gas chromatography/mass spectrophotometry
- 524.2 Volatile organic chemicals in water by purge and trap capillary column gas chromatography/mass spectrophotometry
- 525.2 Determination of organic compounds in drinking water by liquid-solid extraction in capillary column gas chromatography/mass spectrometry
- 531.1 Measurement of N-methyl carbamoyloximes and Nmethyl carbamates in water by direct aqueous injection HPLC with post-column derivatization
- 547 Analysis of glyphosate in drinking water by directaqueous-injection HPLC, with post-column derivatization
- 548 Determination of endothall in aqueous samples
- 549.1 Determination of diquat and paraquat in drinking water by liquid-solid extraction and high performance liquid chromatography with ultraviolet detection
- 550 Determination of polycyclic aromatic hydrocarbons in drinking water by liquid-liquid extraction and HPLC with coupled ultraviolet and fluorescence detection
- 550.1 Determination of polycyclic aromatic hydrocarbons in drinking water by liquid-solid extraction and HPLC with coupled ultraviolet and fluorescence detection
- 551 Determination of chlorination disinfection byproducts and chlorinated solvents in drinking water by liquidliquid extraction and gas chromatography with electron-capture detection
- 551.1 Determination of chlorination disinfection byproducts, chlorinated solvents, and halogenated pesticides/herbicides in drinking water by liquid-liquid extraction and gas chromatography with electron capture detection, Revision 1.0
- 552.1 Determination of haloacetic acids and dalapon in

drinking water by ion exchange liquid-liquid extraction and gas chromatography with an electron capture detector, Revision 1.0

- 552.2 Determination of haloacetic acids and dalapon in drinking water by liquid-liquid extraction, derivatization and gas chromatography with electron capture detection, Revision 1.0
- 555 Determination of chlorinated acids in water by high performance liquid chromatography with a photodiode array ultraviolet detector
- 1613 "Tetra-through Octa-Chlorinated Dioxins and Furans by Isotope Dilution." This method is available from U.S. EPA-OST, Sample Control Center, P.O. Box 1407, Alexandria, VA 22313.
- 6251B Micro Liquid-Liquid Extration Gas Chromatographic Method
- 6610 Carbamate pesticides
- 6651 Glyphosate herbicide]

(3) Microbiological Contaminants and Turbidity. Unless substitute methods are approved[, this section (3) lists acceptable analysis procedures for microbiological contaminants.] by the department, analysis shall be conducted in accordance with the microbiological containinant and turbidity analytical methods in 40 CFR 141.21(f) and 40 CFR 141.74(a)(1), of the July 1, 2003 Code of Federal Regulations, which are incorporated by reference.

[Contaminant (A) Escherichia coli. (E. coli)

Approved Manual or Procedure

Public water systems must conduct analysis of Escherichia coli in accordance with one (1) of the following analytical methods:

1. EC medium supplemented with fifty (50) μ/ml of 4-methylumbelliferyl-beta-D-glucuronide (MUG) (final concentration). EC medium is described in Standard Methods for the Examination of Water and Wastewater, 1992, American Public Health Association, 18th edition, Method 9221E, p. 9–52, paragraph 1a. MUG may be added to EC medium before autoclaving. EC medium supplemented with fifty (50) μ/ml of MUG is commercially available. At least ten (10) ml of EC medium supplemented with MUG must be used. The inner inverted fermentation tube may be omitted. The procedure for transferring a total coliformpositive culture to EC medium supplemented with MUG shall be as specified in 10 CSR 60-5.010(1)(B)2. for transferring a total coliform-positive culture to EC medium. Observe fluorescence with an ultraviolet light (366 nm) in the dark after incubating tube at 44.5 \pm 0.2 degrees Celsius for 24 \pm 2 hours;

2. Nutrient agar supplemented with 100 μ/ml MUG (final concentration). Nutrient agar is described in Standard Methods for the Examination of Water and Wastewater, 1992, American Public Health Association, 18th edition, p. 9–47 to 9–48. This test is used to determine if a total coliform-positive sample, as determined by the membrane filter technique (MFT) or any other method in which a membrane filter is used, contains E. coli. Transfer the membrane filter containing a total coliform colony(ies) to nutrient agar supplemented with 100 μ/ml (final concentration) MUG. After incubating the agar plate at thirty-five degrees Celsius (35°C) for four (4) hours, observe the colony(ies) under ultraviolet light (366 nm) in the dark for fluorescence. If fluorescence is visible, E. coli are present;

3. Minimal Medium ONPG-MUG (MMO-MUG) Test, as set forth in the article "National Field Evaluation of a Defined Substrate Method for the Simultaneous Detection of Total Coliforms and Escherichia coli from Drinking Water: Comparison with Presence-Absence Techniques" (Edberg et al.), Applied and Environmental Microbiology, Volume 55, pp. 1003–1008, April 1989. (Note: The Autoanalysis Colilert System is an MMO-MUG test.) If the MMO-MUG test is total coliform-positive after a 24-hour incubation, test the medium for fluorescence with a 366-nm ultraviolet light (preferably with a 6-watt lamp) in the dark. If fluorescence is observed, the sample is E. coli-positive. If fluorescence is questionable (cannot be definitively read) after 24 hours incubation, incubate the culture for an additional four (4) hours (but not to exceed 28 hours total). And again test the medium for fluorescence. The MMO-MUG Test with hepes buffer in lieu of phosphate buffer is the only approved formulation for the detection of E. coli;

4. As an option to paragraph (3)(A)3. of this rule, a system with a total coliform-positive, MUG-negative, MMO-MUG test may further analyze the culture for the presence of E. coli by transferring a 0.1 ml 28-hour MMO-MUG culture to EC Medium + MUG. Observation of the results are described in 40 CFR 141.21(f)(6)(i); or

5. The Colisure test. A description of the Colisure test may be obtained from the Millipore Corporation, Technical Services Department, 80 Ashby Road, Bedford, MA 01730.

1. Public water systems must conduct fecal coliform analysis in accordance with the following procedure: When the multiple-tube fermentation (MTF) technique or presenceabsence (P-A) coliform test is used to test for total coliform, shake the lactose-positive presumptive tube or P-A vigorously and transfer the growth with a sterile three millimeter (3 mm) loop or sterile applicator stick into brilliant green lactose bile broth and EC medium to determine the presence of total and fecal coliforms, respectively. For EPA-approved analytical methods which use a membrane filter, transfer the total coliform-positive culture by one (1) of the following methods: Remove the membrane containing the total coliform colonies from the substrate with a sterile forceps and carefully curl and insert the membrane into a tube of EC medium (the laboratory may first remove a small portion of selected colonies for verification), swab the entire membrane filter surface with a sterile cotton swab and transfer the inoculum to EC medium (do not leave the cotton swab in the EC medium), or inoculate individual total coliform-positive colonies into EC medium. Gently shake the inoculated tubes of EC medium to insure adequate mixing and incubate in a waterbath at 44.5 \pm 0.2 degrees Celsius for 24 \pm 2 hours. Gas production of any amount in the inner fermentation tube of the EC medium indicates a positive fecal coliform test. The preparation of EC medium is described in Standard Methods for the Examination of Water and Wastewater, 1992, American Public Health Association, 18th edition, Method 9221E, p. 9–2, paragraph 1a. Public water systems need only determine the presence or absence of fecal coliforms; a determination of fecal coliform density is not required. Only this method for fecal coliform is allowed for compliance with 10 CSR 60-4.020(5); or

2. Standard Methods for the Examination of Water and Wastewater, 1992, American Public Health Association, 18th edition.]

(B) Fecal Coliform.

[Contaminant

	B. Fecal coliform membrane filter procedure, method 9222D, pages 9–60 to 9–6
(C) Heterotrophic	Standard Methods for the Examination of Water and Wastewater, 1992, American Pu
Bacteria.	Health Association, 18th edition, pour plate method, method 9215B. The time from s
	ple collection to initiation of analysis may not exceed twenty-four (24) hours.
(D) Total Coliform.	1. The standard sample volume required for total coliform analysis, regardless of a
	lytical method used, is one hundred milliliters (100 ml). The time from sample collec
	to initiation of analysis may not exceed thirty (30) hours.
	2. Standard Methods for the Examination of Water and Wastewater, 1992, Ameri
	Public Health Association, 18th edition—
	A. Fermentation technique, method 9221A, B.
	(I) Lactose broth, as commercially available, may be used in lieu of lauryl trypt
	broth, if the system conducts at least twenty-five (25) parallel tests between this med
	and lauryl tryptose broth using the water normally tested, and this comparison dem
	strates that the false-positive rate for total coliforms, using lactose broth, is less than
	percent (10%).
	(II) If inverted tubes are used to detect gas production, the media should co
	these tubes at least one-half $(1/2)$ to two-thirds $(2/3)$ after the sample is added.
	(III) No requirement exists to run the completed phase on ten percent (10%) o
	total coliform-positive confirmed tubes.
	B. Membrane filter (MF) technique, method 9222A, B, C.
	C. Presence-absence (P-A) coliform test, method 9221D.
	(I) Six-times formulation strength may be used if the medium is filter-steril
	rather than autoclaved.
	(II) No requirement exists to run the completed phase on ten percent (10%) o
	total coliform-positive confirmed tubes.
	D. ONPG-MUG Test (also known as the Autoanalysis Colilert System, method 922
	E. Colisure test. The Colisure test must be incubated for twenty-eight (28) ho
	before examining the results. If an examination of the results at twenty-eight (28) ho
	is not convenient, then results may be examined at any time between twenty-eight (
	and forty-eight (48) hours.
	A description of the Colisure test may be obtained from the Millipore Corporat
	Technical Service Department, 80 Ashby Road, Bedford, MA 01730.]

(4) Radiological Contaminants. Unless substitute methods are approved by the department, analysis shall be conducted in accordance with the radiological contaminant analytical methods in paragraphs 40 CFR 141.25(a) and (b), of the July 1, 2003 Code of Federal Regulations, which are incorporated by reference.

Disinfection By-Products, Residual Disinfectant (5) Concentrations, and Disinfection By-Product Precursors. Unless substitute methods are approved by the department, analysis shall be conducted in accordance with the disinfection by-product, residual disinfectant concentration, and disinfection byproduct precursor analytical methods in 40 CFR 141.74(a)(2) and 40 CFR 141.131 of the July 1, 2003 Code of Federal Regulations, which are incorporated by reference.

[(4)] (6) Sample collection for the contaminants [listed] referenced in this rule must be conducted using the sample preservation, container and maximum holding time procedures specified in the following [table. All other samples for contaminates in 10 CSR 60-5.010 shall be collected] procedures, which are incorporated by reference, or in accordance with procedures contained in the appropriate analytical method.

(A) Inorganic contaminant sample collection procedures in 40 CFR 141.23(k)(2) of the July 1, 2003 Code of Federal Regulations are incorporated by reference.

(B) Total Trihalomethane sample collection procedures in 40 CFR 141.30(e) of the July 1, 2003 Code of Federal Regulations are incorporated by reference.

Approved Manual or Procedure

A. Fecal coliform most probable number (MPN) procedures, method 9221E, pages 9-52 to 9-53 (Note: A-1 Broth may be held up to three (3) months in a tightly closed screwcap tube at four degrees Celsius (4°C));

/Contaminant	Preservative	Container	Holding Time
Antimony	Concentrated HNO_3 to $pH < 2$	P or G	6 months
Asbestos	Cool to 4°C	P or G	
Barium	Concentrated HNO_3 to $pH < 2$	P or G	6 months
Beryllium	Concentrated HNO_3 to $pH < 2$	P or G	6 months
Cadmium	Concentrated HNO_3 to $pH < 2$	P or G	6 months
Chromium	Concentrated HNO ³ to pH<2	P or G	6 months
Copper	3 .		
Preserved	Concentrated HNO ₃ to pH<2	P or G	6 months
Unpreserved	NONE	P or G	14 days
Cyanide	Cool to 4°C, NaOH to pH>12	P or G	14 days
Fluoride	NONE	P or G	1 month
Lead			
Preserved	Concentrated HNO ₃ to pH<2	P or G	6 months
Unpreserved	NONE	P or G	14 days
Mercury	Concentrated HNO ₃ to pH<2	P or G	28 days
Nickel	Concentrated HNO_3° to $pH < 2$	P or G	6 months
Nitrate	0		
Chlorinated	Cool to 4°C	P or G	28 days
Nonchlorinated	Concentrated H ₂ SO ₄ to pH<2	P or G	14 days
Nitrite	Cool to 4°C	P or G	48 hours
Selenium	Concentrated HNO ₃ to pH<2	P or G	6 months
Thallium	Concentrated HNO_3 to $pH < 2$	P or G	6 months]

[(A) If HNO₃ cannot be used because of shipping restrictions, sample may be initially preserved by icing and immediately shipping to the laboratory. Upon receipt in the laboratory, the sample must be acidified with concentrated HNO₃ to pH<2 and held for sixteen (16) hours before analysis. At time of analysis, sample container should be thoroughly rinsed with 1:1 HNO₃; washings should be added to the sample.

(B) P = Plastic, hard or soft.

(C) G = Glass, hard or soft.

(D) In all cases samples should be analyzed as soon after collection as possible.

(E) For cyanide see method(s) for the information for preservation.

(F) The system shall take each sample at the same sampling point unless conditions make another sampling point more representative of each source or treatment plant.

(G) If a system draws water from more than one (1) source and the sources are combined before distribution, the system must sample at an entry point to the distribution system during periods of normal operating conditions (that is, when water is representative of all sources being used).]

[(5)](7) The department may reduce the total number of samples a system must analyze by allowing the use of compositing. [Composite samples from a maximum of five (5) sampling points are allowed provided that the detection limit of the method used for analysis is less than one-fifth (1/5) of the MCL. For a lower number of composited samples the allowable relationship between the detection limit and MCL will change proportionally. Compositing of samples must be done in the laboratory and the composite sample must be analyzed within fourteen (14) days of collection. If the population served by the system is greater than thirty-three hundred (>3,300) persons, then compositing is permitted only at sampling points within a single system. In systems serving less than or equal to thirty-three hundred ($\leq 3,300$) persons, the department may permit compositing among different systems provided the five (5)-sample limit is maintained.] Compositing shall be conducted according to the following procedures incorporaed by reference.

(A) [Compositing of samples may be allowed for inorganic chemicals (IOCs) listed in 10 CSR 60-4.030(1) and synthetic organic chemicals (SOCs) listed in 10 CSR 60-4.040 and volatile organic chemicals (VOCs) listed in 10 CSR 60-4.100(2) and unregulated organic and inorganic chemicals listed in 10 CSR 60-4.110(2).] Sample compositing procedures for inorganic contaminants in 40 CFR 141.23(a)(4) of the July 1, 2003 Code of Federal Regulations are incorporated by reference.

(B) [If the concentration in the composite sample is greater than or equal to 0.0005 mg/l for any organic contaminant listed in 10 CSR 60-4.100(2), then a follow-up sample must be taken within fourteen (14) days at each sampling point included in the composite. These samples must be analyzed for the contaminants which exceeded 0.0005 mg/l in the composite sample. Resampling is not required for unregulated organic and inorganic chemicals listed in 10 CSR 60-4.110(2).] Sample compositing procedures for voltile organic contaminants in 40 CFR 141.24(f)(14) are incorporated by reference.

(C) [If the concentration in the composite sample detects one (1) or more synthetic organic contaminants listed in subsection (6)(B) of this rule, then a follow-up sample must be taken within fourteen (14) days at each sampling point included in the composite. The follow-up sample must be analyzed for the contaminant(s) detected.] Sample compositing procedures for synthetic contaminants in 40 CFR 141.23(h)(10) of the July 1, 2003 Code of Federal Regulations are incorporated by reference.

(D) [If duplicates of the original sample from each sampling point used in the composite are available, the system may use these duplicates instead of resampling. The duplicate must be analyzed and the results reported to the department within fourteen (14) days of collection.] Sample compositing procedures for radiological contaminants in 40 CFR 141.26(a)(4) of the July 1, 2003 Code of Federal Regulations are incorporated by reference.

(E) [Compositing Samples Prior to Gas Chromatograph (GC) Analysis.

1. Add five milliliter (5 ml) or equal larger amounts of each sample (up to five (5) samples are allowed) to a twenty-five milliliter (25 ml) glass syringe. Special precautions must be made to maintain zero headspace in the syringe. 2. The samples must be cooled at four degrees Centigrade (4°C) during this step to minimize volatilization losses.

3. Mix well and draw out a five milliliter (5 ml) aliquot for analysis.

4. Follow sample introduction, purging and desorption steps described in the method.

5. If less than five (5) samples are used for compositing, a proportionately small syringe may be used.] Sample compositing procedures for lead and copper in 40 CFR 141.23 (a)(1)(iv) are incorporated by reference.

[(F) Compositing Samples Prior to GC/Mass Spectrophotometer (MS) Analysis.

1. Inject five milliliter (5 ml) or equal larger amounts of each aqueous sample (up to five (5) samples are allowed) into a twenty-five milliliter (25 ml) purging device using the sample introduction technique described in the method.

2. The total volume of the sample in the purging device must be twenty-five milliliters (25 ml).

3. Purge and desorb as described in the method.

(G) For lead and copper monitoring, composite samples from a maximum of five (5) sampling points per composite sample are allowed with prior approval of the department. The reportable value, as required in 10 CSR 60-7.020, for each of the samples in the composite is the concentration detected multiplied by the number of samples composited. If the concentration in the composite sample is less than the detection limit, the reportable value for each of the samples in the composite is the detection limit multiplied by the number of samples composited. If the ninetieth percentile concentration, calculated in accordance with 10 CSR 60-15.010(3)(C), exceeds the lead and copper action level established in 10 CSR 60-15.010(3)(A) and (B), each of the samples from which the composite was derived must be analyzed individually and reported as required in 10 CSR 60-7.020.]

[(6)] (8) Detection Limits.

[(A) Detection limits for inorganic chemical analytical methods are the following:

Detection Limits for Inorganic Contaminants

	U U	Detection	
Contaminant	Method	Limit	
		(mg/l)	
Antimony	Atomic Absorption—		Lead
	Furnace Technique	0.003	Mercu
	Atomic Absorption—		morea
	Platform	0.0008	
	Inductively Coupled		
	Plasma—Mass		
	Spectrometry	0.0004	Nickel
	Atomic Absorption—		
	Gaseous Hydride	0.001	
Asbestos	Transmission Electron		
	Microscopy	0.01 million	
		fibers per liter	
Barium	Atomic Absorption—		
	Furnace Technique	0.002	
	Atomic Absorption—		
	Direct Aspiration	0.1	Nitrate
	Inductively Coupled		
	Plasma	0.002	
	Inductively Coupled		
	Plasma (EPA method		
	200.7)	0.001	

<u>Contaminant</u>	Method	Detection Limit
Down	Atomia Abaaratian	(mg/l)
Beryllium	Atomic Absorption— Furnace Technique	0.0002
	Atomic Absorption—	0.0002
	Platform	
0.00002		
	Inductively Coupled	
	Plasma	0.0003
	Inductively Coupled	
	Plasma—Mass Spectrometry	0.0003
	Spectrometry	0.0005
Cadmium	Atomic Absorption—	
	Furnace Technique	0.0001
	Inductively Coupled	
	Plasma	0.001
Chromeiume	Atomia Abaaratian	
Chromium	Atomic Absorption— Furnace Technique	0.001
	Inductively Coupled	0.001
	Plasma	0.007
	Inductively Coupled	0.001
	Plasma (EPA Method	
	200.7A)	0.001
Copper	All Methods Except	0 0000
	Atomic Absorption Atomic Absorption	0.0002
	With Direct Aspiration	0.0002
	With Direct Application	0.0002
Cyanide	Distillation, Spectrophoto-	
	metric (screen)	0.02
	Distillation, Automated	
	Spectrophoto-	0.005
	metric (screen) Distillation, Selective	0.005
	Electrode (screen)	0.02
	Distillation, Amenable,	0.01
	Spectrophotometric	
	(free)	0.02
11		0.001
Lead Mercury	All Methods Manual Cold Vapor	0.001
mercury	Technique	0.0002
	Automated Cold Vapor	
	Technique	0.0002
Nickol	Atomia Absorption	
Nickel	Atomic Absorption— Furnace Technique	0.001
	Atomic Absorption—	0.007
	Platform	0.0006
	Inductively Coupled	
	Plasma	0.005
	Inductively Coupled	
	Plasma—Mass Spectrometry	0.0005
	opeenomeny	0.0000
Nitrate	Manual Cadmium	
	Reduction	0.01
	Automated Hydrazine	0.04
	Reduction Automated Cadmium	0.01
	Automated Cadmium	0.05

Reduction

0.05

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Contaminant		Detection Limit
		(mg/l)
	Ion Selective Electrode	1
	lon Chromatography	0.01
Nitrite	Spectrophotometric	0.01
	Automated Cadmium	
	Reduction	0.05
	Manual Cadmium	
	Reduction	0.01
	Ion Chromatography	0.004
Selenium	Atomic Absorption—	
	Furnace Technique	0.002
	Atomic Absorption—	
	Gaseous Hydride	0.002
Thallium	Atomic Absorption—	
	Furnace Technique	0.001
	Atomic Absorption—	
	Platform	0.0007
	Inductively Coupled	
	Plasma—Mass	
	Spectrometry	0.0003

(B) Detection limits for SOCs are the following:

Contaminant	Detection Limit
2,3,7,8-TCDD (Dioxin)	(mg/l) 0.000000005
2,3,7,8-7CDD (DIOXIII) 2,4-D	0.0001
2,4-D 2,4,5-TP (Silvex)	0.0002
Alachlor	0.0002
Aldicarb	0.0002
Aldicarb sulfoxide	0.0005
Aldicarb sulfone	0.0008
Atrazine	0.0001
Benzo(a)pyrene Carbofuran	0.00002 0.0009
Chlordane	
	0.0002
Dalapon	0.001
Dibromochloropropane	0.00000
(DBCP)	0.00002
Di(2-ethylhexyl)adipate	0.0006
Di(2-ethylhexyl)phthalate	0.0006
Dinoseb	0.0002
Diquat	0.0004
Endothall	0.009
Endrin	0.00001
Ethylene dibromide (EDB)	0.00001
Glyphosate	0.006
Heptachlor	0.00004
Heptachlor epoxide	0.00002
Hexachlorobenzene	0.0001
Hexachlorocyclopentadiene	0.0001
Lindane	0.00002
Methoxychlor	0.0001
OxamyI (Vydate)	0.002
Pentachlorophenol	0.00004
Picloram	0.0001
Polychlorinated biphenyls (PCBs)	
(as decachlorobiphenyl)	0.0001
Aroclor 1016	0.00008
Aroclor 1221	0.02
Aroclor 1232	0.0005
Aroclor 1242	0.0003
Aroclor 1248	0.0001
Aroclor 1254	0.0001
Aroclor 1260	0.0002

Simazine	0.00007
Toxaphene	0.001

(C) The detection limit for VOCs is 0.0005 mg/l. (D) Detection limits for radiological contaminants are the following:

Radionuclide	Detection Limit
Radium 226, 228 Gross Alpha Tritium Strontium-89 Strontium-90 Iodine-131 Cessium-134 Gross Beta Other radionuclides	1 pCi/l 3 pCi/l 1000 pCi/l 10 pCi/l 2 pCi/l 1 pCi/l 10 pCi/l 4 pCi/l 1/10 of the acceptable limit]

(A) Detection limits for inorganic contaminants in 40 CFR 141.23(a)(4)(i) of the July 1, 2003 *Code of Federal Regulations* are incorporated by reference.

(B) Practical Quantitation Levels (PQL) for lead and copper in 40 CFR 141.89(a)(1)(ii)(A) and (B) of the July 1, 2003 *Code of Federal Regulations* are incorporated by reference.

(C) Detection limit for volatile organic contaminants in 40 CFR 141.24(f)(7) of the July 1, 2003 *Code of Federal Regulations* are incorporated by reference.

(D) Detection limits for synthetic organic contaminants in 40 CFR 141.24(h)(13)(ii) and 141.24(h)(18) of the July 1, 2003 *Code of Federal Regulations* are incorporated by reference.

(E) Detection limits for radiological contaminants in 40 CFR 141.25(c) of the July 1, 2003 *Code of Federal Regulations* are incorporated by reference.

AUTHORITY: sections 640.100, RSMo Supp. 2003 and 640.125.1, RSMo 2000. Original rule filed May 4, 1979, effective Sept. 14, 1979. For intervening history, please consult the Code of State Regulations. Amended: Filed Feb. 17, 2004.

PUBLIC COST: This proposed amendment is anticipated to cost state agencies and political subdivisions less than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment is anticipated to cost private entities less than five hundred dollars (\$500) in the aggregate.

NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COM-MENTS: An information meeting and public hearing will be held at 10 a.m. May 11, 2004 at the DNR Conference Center, 1738 East Elm Street, Jefferson City, Missouri. Anyone may comment in support of or opposition to this proposed amendment during the public hearing.

Also, written comments will be accepted through close of business on June 11, 2004. Written comments may be mailed or faxed to: Linda McCarty, Public Drinking Water Program, PO Box 176, Jefferson City, MO 65102. The fax number is (573) 751-3110.

In preparing your comments, please include the regulatory citation and the **Missouri Register** page number. Please explain why you agree or disagree with the proposed change, and include alternative options or language.

Title 15—ELECTED OFFICIALS Division 30—Secretary of State Chapter 51—Broker-Dealers, Agents, Investment Advisers, and Investment Adviser Representatives

PROPOSED RULE

15 CSR 30-51.175 Exclusion From Definition of Broker-Dealer

PURPOSE: The commissioner is authorized by the Missouri Securities Act of 2003 to create exceptions from the definition of broker-dealer. This rule excludes from the definition certain credit unions engaged in limited broker-dealer activities under a networking arrangement with a registered broker-dealer.

(1) Networking Arrangements Between Broker-Dealers and Credit Unions. A credit union organized or chartered under the laws of the United States or under the laws of the state of Missouri, or that is organized or chartered under the laws of a state which has reciprocity with Missouri, is excluded from the definition of broker-dealer under section 409.1-102(4)(E), RSMo if such credit union's broker-dealer activities are limited to those authorized in a contractual or other written arrangement with a broker-dealer registered under the Missouri Securities Act of 2003 whereupon the broker-dealer offers brokerage services on or off the premises of the credit union and—

(A) Such broker-dealer is clearly identified as the person performing the brokerage services;

(B) The broker-dealer performs brokerage services in an area that is clearly marked and, to the extent practicable, physically separate from the routine deposit-taking activities of the credit union;

(C) Any materials used by the credit union to advertise or promote generally the availability of brokerage services under the arrangement clearly indicate that the brokerage services are being provided by the broker-dealer and not by the credit union;

(D) Any materials used by the credit union to advertise or promote generally the availability of brokerage services under the arrangement are in compliance with Missouri and federal securities laws before distribution;

(E) Employees of the credit union (other than agents of a brokerdealer who are registered under the Missouri Securities Act of 2003 and qualified pursuant to the rules of a self-regulatory organization) perform only clerical or ministerial functions in connection with brokerage transactions including scheduling appointments with the agents of a broker-dealer, except that employees of a credit union may forward customer funds or securities and may describe in general terms the types of investment vehicles available from the credit union and the broker-dealer under the arrangement;

(F) Employees of the credit union do not receive incentive compensation for any brokerage transaction unless such employees are agents of a broker-dealer, are registered under the Missouri Securities Act of 2003 and are qualified pursuant to the rules of a self-regulatory organization, except that the employees of the credit union may receive compensation for the referral of any customer if the compensation is a nominal one (1)-time cash fee of a fixed dollar amount and the payment of the fee is not contingent on whether the referral results in a transaction;

(G) Such services are provided by the broker-dealer on a basis in which all customers that receive any services are fully disclosed to the broker-dealer;

(H) The credit union does not carry a securities account of the customer; and

(I) The credit union or broker-dealer informs each customer that the brokerage services are provided by the broker-dealer and not by the credit union and that the securities are not deposits or other obligations of the credit union, are not guaranteed by the credit union, and are not insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration. AUTHORITY: sections 409.1-102(4) and 409.6-605, RSMo Supp. 2003. Original rule filed Feb. 13, 2004.

PUBLIC COST: This proposed rule will cost state agencies or political subdivisions one thousand eight hundred dollars (\$1,800) in the first year and and nine hundred dollars (\$900) annually for the life of the rule.

PRIVATE COST: This proposed rule will not cost private entities more than five hundred dollars (\$500) in the aggregate.

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed rule with the Missouri Secretary of State's Office, Doug Ommen, Commissioner of Securities, 600 West Main Street, Jefferson City, MO 65101. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.

Fiscal Note

Public Cost

I. Rule Number

Rule Number and Name:	15 CSR 30-51.175 Exclusion From Definition of Broker-Dealer
Type of Rulemaking:	Proposed Rule

II. Summary of Fiscal Impact

Affected Agency or Political Subdivision	Missouri Securities Division
Estimated Cost of Compliance in the Aggregate:	\$1800.00 in the first year; \$900.00 per annum each year after

III. Worksheet

It is estimated that nine (9) credit unions currently operate under networking arrangements as described in 15 CSR 30-51.175. If this rule was not put into practice, each credit union that operates under these networking arrangements with broker-dealers, as described in this rule, could be required to register with the Missouri Securities Division as a broker-dealer and pay a \$200.00 initial registration fee, and providing no lapse in registration occurs, a \$100.00 renewal fee each year after that.

Nine credit unions @ 200.00/each registration fee = 1800.00Nine credit unions @ 100.00/each renewal fee = 900.00

IV. Assumptions

Information with respect to quantity of credit unions operating under these networking arrangements, as described in the proposed rule, was obtained from the Missouri Credit Union Association (MCUA) and is believed to be current as of February 11, 2004.

Information with respect to the cost to register and renew broker-dealers was obtained from 409.4-410, RSMo Cumulative Supp. 2003. The cumulative per annum fee to renew broker-dealers is based upon the assumption that the fee to renew individual broker-dealers remains \$100.00.