determined that the system has co rected the contamination problem | for the system took the set of rep samples required in paragraphs (b (4) of this section, and all repeat samples were total coliform-negative

(6) After a system collects a sample and refore it learns to routine e results of the analysis of that samp if it collects another routine san ple(s) from within five adjacent ser vice connece, and the initions of the initial samp sis, is found to tial sample, after nal contain total coliforns, then the syssubsequent samtem may count the ample instead of as ple(s) as a repeat § a routine sample.

Il routine and repeat (7) Results of samples not invalidated by the State must be included in determining comthe MCL for tal colipliance with

11.63. forms in §1

(c) Invelidation of total coliforn samtotal coliform-positive sample ples. A invalidated under this paragraph not count towards meeting fimum monitoring requirements mis section.

(1) The State may invalidate a total coliform-positive sample only if conditions of paragraph (c)(1) (i) (ii).

or (ii) of this section are met.
(i) The laboratory establish that sed the

improper sample analysis cay total colform-positive result (ii) The State, on the basis of sults of repeat samples collected of the reected as rethrough (4) quired by paragraphs (b) (of this section, determines that the total coliform positive ample resulted from a domestic or other non-distribution system plumbing problem. The State cannot invalidate a sample on the basis of repea sample results unmple(s) collected at less all repeat s the same tap as the ' riginal total coliform-positive sample are also total lve, and all repeat samcoliform-posi within fi e service conples collecte ap are total the original nections of egative (e.g., a State cannot coliform-n a total coliforn-positive invalidat n the basis of repeat samples if sample g repeat samples are total coliall the egative, or if the public water formm has only one service connecsyste tio

The State has substanti rounds to believe that a total coli

form-positive result is due to a ci currentance or condition which does; at water quality in the distr refle tion sistem. In this case, the smust still collect all repeat same quired under paragraphs (b) (4) of this section, and use them to determine compliance with th MCL for total coliforms in §141.63, Co invalidate a total coliforn -positiv sample under cision with the he d this paragraph, rationale for one amount and approved amounted in writing and approved amounted the supervisor of the State official who reco imended the decision. make this document The State mus A and the available to public. The written documentation must state the koliformse of the total specific ca mple, and what action the positive system ? as taken, or will take. o cors problem. The State mannot rect th date a total coliform-positive inval ple solely on the grounds that receat samples are total coliform-negative Vve.

(2) A laboratory must invalidate total coliform sample (unless tot coliferms are detected) if the sample products a turbid culture in the sence of cas production using an analytical method where gas forp ation is examined (e.g., the Multiple mentation Lechnique), p ube Feroduces a ce of an acid turbid culture in the abser reaction in the Presence Absence (P-A) Coliform Test, of exhibits confluent growth or produces coonies too numernalytical method ous to count with an filer (e.g., Memusing a membrang hique If a laborabrane Filter Teck a sampla because of tory invalidates such interference, the system must colample from the same lolect another cation as th original sample within 24 hours of ging notified of the interoblem, and have it analyzed ference p for the resence of total coliforms. Che systen must continue to re-sam 1 24 hours and have the sample withi yzed until it obtains a valid result e State may waive the 24-hour time mit on a case-by-case basis.

(d) Sanitary surveys. (1)(i) Public water systems which do not collect five or more routine samples/month must undergo an initial sanitary survey by June 29, 1994, for community public water systems and June 29, 1999, for

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non-community water systems. Thereafter, systems must undergo another sanitary survey every five years, except that non-community water systems using only protected and disinfected ground water, as defined by the State, must undergo subsequent sanitary surveys at least every ten vears after the initial sanitary survey. The State must review the results of each sanitary survey to determine whether the existing monitoring frequency is adequate and what additional measures, if any, the system needs to undertake to improve drinking water quality.

- (ii) In conducting a sanitary survey of a system using ground water in a State having an EPA-approved well-head protection program under section 1428 of the Safe Drinking Water Act, information on sources of contamination within the delineated wellhead protection area that was collected in the course of developing and implementing the program should be considered instead of collecting new information, if the information was collected since the last time the system was subject to a sanitary survey.
- (2) Sanitary surveys must be performed by the State or an agent approved by the State. The system is responsible for ensuring the survey takes place.
- (3) Sanitary surveys conducted by the State under the provisions of §142.16(0)(2) of this chapter may be used to meet the sanitary survey requirements of this section.

- (e) Fecal coliforms/Escherichia coli (E con testing. (1) If any routine or repe sample is total coliform-positive, he system must analyze that total coliform-positive culture medium to determine if feed coliforms are present, except that the system may lest for E. coli in lieu of fecal coliforms. If fecal coliforms or E. voli are present, the system must notify the S ate by the end of the day when the system is notified of the test result, it less the system is notified of the resul After the State office is closed, in y hich case the system must notify the tate before the end of the next busine s day.
- (2) The State has the discretion to allow a public water system, in a case-by-case basis, to forgo fecal coliform or *E. coli* testing on a total coliform-positive sample if that system assumes that the total coliform-positive sample is fecal coliform-positive or *E. coli*-positive Accordingly, the system must natify the State as specified in paragraph (g)(1) of this section and the provisions of \$141.63(b) apply.
- (f) Analytical methodology. (1) The standard sample volume regarded for total coliform analysis, regardless of analytical method used as 100 ml.
- (2) Public water sistems need only determine the presence or absence of total coliform a determination of total coliform density is not required.
- (3) Public water systems must conduct total coliform analyses in accordance with one of the analytical methods in the following table or one of the alternative methods listed in appendix to subpart C of this part.

| Organism | Methodology 12 | Citation 1 |
|------------------------------|--|---|
| Total Coliforns ² | Total Coliform Fermentation Technique 3 4 5 Total Coliform Membrane Filter Technique 6 Presence-Absence (P-A) Coliform Test 5 7 ONPG-MUG Test 8 Colorure Test 9 E**Colife Test 10 m**Coliform 100 Proence/Absence Test 13 Membrane Filter Technique using Chromocult ** Coliform Agar. 14 Colitag ** Test 15 | 92214 B. 5222A, B, C. 9221D. 9223. |

The procedures shall be done in accordance with the document. Sisted below. The incorporation by reference of the following documents listed in footnot of 6, 8, 9, 10, 11, 13, 14 and 15 was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552 a) and 1 CFR part 51. Copies of the documents may be obtained from the sources listed below. Information regarding obtaining these documents can be obtained from the Safe Dirinking. Water Hotline at 800–426-4791. Documents may be inspected at EPA's Drinking Water Docket, EPA West, 1301 Constitution Aven. NW., EPA West, Room B102, Washington D 20460 (Telephone: 202–566-2426); or at the National Archives and Records Adm. Strain (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: http://www.a.stines.gov/tederal_register/ofe_of_federal_regulations/ibr_locations.html.