§ 141.544 What if my system uses chloramines, ozone, or chlorine dioxide for primary disinfection?
If your system uses chloramines, ozone or chlorine dioxide for primary disinfection your system must calculate the disinfection benchmark from the data your system collected for viruses to develop the disinfection profile in addition to the Giardia lamblia disinfection benchmark calculated under $\S 141.543$. This viral benchmark must be calculated in the same manner used to calculate the Giardia lamblia disinfection benchmark in §141.543.

## Combined Filter Effluent REQUIREMENTS

$\S 141.550$ Is my system required to meet subpart $T$ combined filter effluent turbidity limits?

All subpart H systems which serve populations fewer than 10,000 , are required to filter, and utilize filtration other than slow sand filtration or diatomaceous earth filtration must meet the combined filter effluent turbidity requirements of $\S \S 141.551-141.553$. If your system uses slow sand or diatomaceous earth filtration you are not required to meet the combined filter effluent turbidity limits of subpart $T$, but you must continue to meet the combined filter effluent turbidity limits in §141.73.

## $\S 141.551$ What strengthened combined filter effluent turbidity limits must my system meet?

Your system must meet two strengthened combined filter effluent turbidity limits.
(a) The first combined filter effluent turbidity limit is a " 95 th percentile" turbidity limit that your system must meet in at least 95 percent of the turbidity measurements taken each month. Measurements must continue to be taken as described in §141.74(a) and (c). Monthly reporting must be completed according to $\S 141.570$. The following table describes the required limits for specific filtration technologies.

| If your system consists of *** | Your 95th per- <br> centile turbidity <br> value is ${ }^{*} *$ |
| :--- | :--- |
| (1) Conventional Filtration or Direct Fil- | 0.3 NTU. |
| tration. |  |
| (2) All other "Alternative" Filtration ........ | A value determined <br> by the State (not <br> to exceed 1 <br> NTU based on <br> the demonstra- <br> tion described in |
|  | §141.552. |

(b) The second combined filter effluent turbidity limit is a "maximum" turbidity limit which your system may at no time exceed during the month. Measurements must continue to be taken as described in $\S 141.74$ (a) and (c). Monthly reporting must be completed according to $\S 141.570$. The following table describes the required limits for specific filtration technologies.

| If your system consists of $* * *$ | Your maximum tur- <br> bidity value is $* *$ |
| :--- | :--- |
| (1) Conventional Filtration or Direct Fil- | 1 NTU. |
| tration. |  |
| (2) All other "Alternative Filtration" ........ | A value determined <br> by the State (not <br> to exceed 5 |
|  | NTU) based on |
| the demonstra- |  |
|  | tion as described |
| in § 141.552. |  |

[67 FR 1839, Jan. 14, 2002, as amended at 69 FR 38856, June 29, 2004]
§ 141.552 My system consists of "alternative filtration" and is required to conduct a demonstration-what is required of my system and how does the State establish my turbidity limits?
(a) If your system consists of alternative filtration(filtration other than slow sand filtration, diatomaceous earth filtration, conventional filtration, or direct filtration) you are required to conduct a demonstration (see tables in §141.551). Your system must demonstrate to the State, using pilot plant studies or other means, that your system's filtration, in combination with disinfection treatment, consistently achieves:
(1) 99 percent removal of Cryptosporidium oocysts;
(2) 99.9 percent removal and/or inactivation of Giardia lamblia cysts; and
(3) 99.99 percent removal and/or inactivation of viruses.
(b) [Reserved]

## § 141.553 My system practices lime softening-is there any special provision regarding my combined filter

 effluent?If your system practices lime softening, you may acidify representative combined filter effluent turbidity samples prior to analysis using a protocol approved by the State.

## Individual Filter Turbidity REQUIREMENTS

vidual
141.560
Is my
filter
system subject
to indidity
requirements?
If your system is a subpart $H$ system serving fewer than 10,000 people and utilizing conventional filtration or direct filtration, you must conduct continuous monitoring of turbidity for each individual filter at your system. The following requirements apply to continuous turbidity monitoring:
(a) Monitoring must be conducted using an approved method in §141.74(a);
(b) Calibration of turbidimeters must be conducted using procedures specified by the manufacturer;
(c) Results of turbidity monitoring must be recorded at least every 15 minutes;
(d) Monthly reporting must be completed according to §141.570; and
(e) Records must be maintained according to §141.571.

## § $\mathbf{1 4 1 . 5 6 1}$ What happens if my system's turbidity monitoring equipment fails?

If there is a failure in the continuous turbidity monitoring equipment, your system must conduct grab sampling every four hours in lieu of continuous monitoring until the turbidimeter is back on-line. Your system has 14 days to resume continuous monitoring before a violation is incurred.

## § 141.562 My system only has two or fewer filters-is there any special provision regarding individual filter turbidity monitoring?

Yes, if your system only consists of two or fewer filters, you may conduct continuous monitoring of combined filter effluent turbidity in lieu of individual filter effluent turbidity moni-
toring. Continuous monitoring must meet the same requirements set forth in §141.560(a) through (d) and §141.561.
§ 141.563 What follow-up action is my system required to take based on continuous turbidity monitoring?
Follow-up action is required according to the following tables:

| If * * | Your system must * * |
| :---: | :---: |
| (a) The turbidity of an individual filter (or the turbidity of combined filter effluent (CFE) for systems with 2 filters that monitor CFE in lieu of individual filters) exceeds 1.0 NTU in two consecutive recordings 15 minutes apart. | Report to the State by the 10th of the following month and include the filter number(s), corresponding date(s), turbidity value(s) which exceeded 1.0 NTU, and the cause (if known) for the exceedance(s). |
| If a system was required to report to the State | Your system must |
| (b) For three months in a row and turbidity exceeded 1.0 NTU in two consecutive recordings 15 minutes apart at the same filter (or CFE for systems with 2 filters that monitor CFE in lieu of individual filters). | Conduct a self-assessment of the filter(s) within 14 days of the day the filter exceeded 1.0 NTU in two consecutive measurements for the third straight month unless a CPE as specified in paragraph (c) of this section was required. Systems with 2 filters that monitor CFE in lieu of individual filters must conduct a self assessment on both filters. The self-assessment must consist of at least the following components: assessment of filter performance; development of a filter profile; identification and prioritization of factors limiting filter performance; assessment of the applicability of corrections; and preparation of a filter self-assessment report. |
| (c) For two months in a row and turbidity exceeded 2.0 NTU in 2 consecutive recordings 15 minutes apart at the same filter (or CFE for systems with 2 filters that monitor CFE in lieu of individual filters). | Arrange to have a comprehensive performance evaluation (CPE) conducted by the State or a third party approved by the State not later than 60 days following the day the filter exceeded 2.0 NTU in two consecutive measurements for the second straight month. If a CPE has been completed by the State or a third party approved by the State within the 12 prior months or the system and State are jointly participating in an ongoing Comprehensive Technical Assistance (CTA) project at the system, a new CPE is not required. If conducted, a CPE must be completed and submitted to the State no later than 120 days following the day the filter exceeded 2.0 NTU in two consecutive measurements for the second straight month. |

