

3745-90-03

Harmful algal blooms - monitoring.

This rule applies to all surface water systems. Only paragraphs (C)(4) and (D) of the rule apply to consecutive surface water systems.

(A) Cyanobacteria screening.

Surface water systems shall monitor with a minimum of one sample from each raw water sampling point at least weekly for cyanobacteria screening.

(B) Routine microcystins monitoring.

(1) Surface water systems shall monitor with a minimum of one sample from each raw water sampling point and one sample from each finished water sampling point at least weekly for microcystins analysis.

(2) The frequency of monitoring at both raw water sampling points and finished water sampling points shall be increased to three days a week if microcystins exceeds five micrograms per liter (ug/L) at the raw water sampling point, unless an alternate frequency has been established as part of the approved cyanotoxin general plan in accordance with rule 3745-90-05 of the Administrative Code.

Weekly monitoring may resume once the following occur:

(a) Microcystins concentrations are equal to or less than five ug/L in two consecutive samples from the raw water sampling point that are collected at least one day apart.

(b) Microcystins concentration is non-detect at finished water sampling points.

(c) If samples were collected at distribution sampling points collected in accordance with paragraph (C)(4) of this rule, microcystins are not detected at any distribution sampling point.

<u>Raw Water Sample</u>	<u>Finished Water / Distribution Samples</u>	<u>Frequency</u>
<u>> 5 ug/L</u>	<u>Non-detect</u>	<u>3 days per week</u>
<u>< or equal to 5 ug/L</u>	<u>Non-detect</u>	<u>Once per week</u>

(3) After May 1, 2017, the routine microcystins monitoring frequency may be decreased at the discretion of the director if cyanobacteria screening data supports a modified monitoring schedule. Surface water systems shall monitor in accordance with the modified routine microcystins monitoring

schedule established by the director.

(4) The frequency of monitoring at both raw water sampling points and finished water sampling points shall be increased to daily if microcystins are detected at finished water sampling points or distribution sampling points collected in accordance with paragraph (C) of this rule. Daily monitoring shall include analysis within twenty-four hours of sample collection.

Monitoring frequency can decrease to a frequency based on the microcystins concentration in the last two consecutive daily samples from the raw water sampling point, in accordance with the table in paragraph (B) of this rule, once the following occur:

(a) Microcystins are not detected in two consecutive daily samples collected at the finished water sampling point.

(b) If samples were collected at distribution sampling points in accordance with paragraph (C)(4) of this rule, microcystins are below the action level at distribution sampling points.

(C) Response to action level exceedance.

If microcystins exceed the action level established in rule 3745-90-02 of the Administrative Code in routine samples collected at the finished water sampling point, the public water system shall do the following:

(1) As soon as possible, but no later than twenty-four hours of receiving the results of the initial action level exceedance, reanalyze all samples which exceeded the action level.

(2) As soon as possible, but no later than twenty-four hours of receiving the results of the initial action level exceedance, collect and analyze one resample from each raw water sampling point and one resample from each finished water sampling point.

(3) Within twenty-four hours of receiving the resample results, collect and analyze one repeat sample from each raw water sampling point and one repeat sample from each finished water sampling point. These repeat samples satisfy the requirement for daily samples as set forth in paragraph (B)(4) of this rule.

(4) If the microcystins concentration exceeds the action level in the resample or repeat samples collected at any finished water sampling point in accordance with paragraph (C)(3) of this rule, as soon as practical but no later than three hours after receiving the resample or repeat sample results, the surface water system shall notify all consecutive systems served by the water system. The surface water system with the action level exceedance, and all consecutive water systems served by the water system, shall within twenty-four hours of

receiving the resample or repeat sample results, collect and analyze samples at representative distribution sampling points in accordance with the contingency plan required by rule 3745-85-01 of the Administrative Code. Additional distribution system monitoring may be required by the director based on sampling results and other relevant circumstances.

(5) Conduct routine daily monitoring in accordance with paragraph (B)(4) of this rule.

(D) Failure to comply with this rule is a monitoring violation and requires the public water system to provide Tier 3 public notification in accordance with rule 3745-81-32 of the Administrative Code.