

[COMP GUIDE, CHAPTER 4]

G. Detection Level and Sample Method

NOTE TO POTWs USING THIS MODEL: Add/delete parameters per Section B. Also, adjust Hg listings as needed.

* Please note that these are the Practical Quantitation limits (PQL) for EFFLUENT monitoring.

These detection limits may not be achievable for all sample matrixes that are monitored as outlined in the LTMP (Influent, Industrial Waste Samples, Aeration Basin, and Sludge). If your town is unable to achieve these limits for effluent, please contact State to discuss case-by-case situation.

[TOWN] will always strive to meet these detection limits for all monitoring, unless interferences occur due to sample matrix, or any other unpreventable circumstances. In the event of a failure to achieve a required PQL due to matrix interference or other unpreventable circumstance, the laboratory must provide a qualifier statement on the final report describing the circumstances. If the laboratory report does not provide the required qualifier, then the laboratory will be notified that a revised report will be required that includes the addition of an appropriate qualifier statement.

Detection levels for locations, other than the Effluent, will generally have to be the lowest technologically available to gather data above the detection levels.

*** Ammonia recommended detection level is based on method used for analysis. Please select the detection level based on your lab's current method.*

Sampling,
analytical method
CFR 136.

Analysis of
Sludge to Disposal
cannot meet these
this case, analysis of
obtain a detection
stringent as the
criteria or sludge
All Aeration Basin
Disposal samples

detection
choose to
options
See letter
included in

P.O.C.	Required Detection Level (mg/l)	Sample Method
BOD	2	24 hr. Composite
TSS	2.5	24 hr. Composite
Ammonia (NH ₃) as N	** See Note	24 hr. Composite
Arsenic (As)	0.002	24 hr. Composite
Cadmium (Cd)	0.0005	24 hr. Composite
Chromium (Cr)	0.005	24 hr. Composite
Copper (Cu)	0.002	24 hr. Composite
Cyanide (CN ⁻)	0.005	Grab
Lead (Pb)	0.002	24 hr. Composite
Mercury (Hg) LL-Effluent	1 ng/l (method 1631)	Grab
Mercury (Hg)-all other locations	0.0002 (method 245.1)	24 hr. Composite
Molybdenum (Mo)	0.010	24 hr. Composite
Nickel (Ni)	0.002	24 hr. Composite
Selenium (Se)	0.001	24 hr. Composite
Silver (Ag)	0.001	24 hr. Composite
Zinc (Zn)	0.010	24 hr. Composite

preservation, and
must be from 40

Aeration Basin and
samples often
detection levels. In
these samples must
level at least as
applicable inhibition
ceiling standard.
and Sludge to
will be grab.

Recommended
limits are required if
have all PQL HWA
available.
dated 3-21-22
this chapter