

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

## Laboratory Certification Program

### LIST OF APPROVED CONTAMINANTS FOR WATER QUALITY LABORATORIES CERTIFIED IN MARYLAND FOR MICROBIOLOGICAL AND/OR CHEMICAL EXAMINATION OF DRINKING WATER

#### Microbiology

Group 1 – Multi-Tube Fermentation (MTF)  
Total Coliform MTF  
E. coli MTF

Group 2 – Membrane Filtration (MF)  
Total Coliform MF

Group 3 - HPC  
Heterotrophic Plate Count

Group 4  
Enzyme Substrate Determinations

Group 5  
E.coli Enumeration

#### Trace Metals (As groups or individually)

Group 1 --- Lead  
Copper

Group 2---- Antimony  
Arsenic  
Barium  
Beryllium  
Cadmium  
Chromium  
Mercury  
Selenium  
Thallium

#### Inorganics

Group 1 --- Nitrate-N

Group 2 --- Nitrite-N

Group 3 --- Fluoride

Group 4 --- Asbestos

Group 5 --- Cyanide

Group 6 – Chlorite

#### Organics, Pesticides

Group 1  
Endrin  
Lindane  
Methoxychlor  
Toxaphene  
Chlordane  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Hexachlorocyclopentadiene

Group 2  
Alachlor  
Atrazine  
Simazine

Group 3  
Aldicarb  
Aldicarb sulfone  
Aldicarb sulfoxide  
Carbofuran  
Oxamyl (Vydate)

Group 4  
PCBs (as Aroclors) \*  
PCBs \*\*  
(as decachlorobiphenyls)

Group 5  
Diquat

Group 6  
Endothall

Group 7  
Glyphosate

#### Organics, Herbicides

2,4-D  
2,4,5-TP (Silvex)  
Pentachlorophenol  
Dinoseb  
Dalapon  
Picloram

#### Organics, Trihalomethanes

Chloroform  
Bromodichloromethane  
Chlorodibromomethane  
Bromoform  
Total Trihalomethanes

#### Organic Chemicals (VOCs)

Group 1  
Benzene  
Carbon tetrachloride  
1,2-Dichloroethane  
Trichloroethylene  
1,1-Dichloroethylene  
1,1,1-Trichloroethane  
1,4-Dichlorobenzene  
Vinyl Chloride  
1,2-Dichlorobenzene  
cis-1,2-Dichloroethene  
trans-1,2-Dichloroethene  
1,2-Dichloropropane  
Ethylbenzene  
Styrene  
Tetrachloroethylene  
Toluene  
(total) Xylenes  
Chlorobenzene  
Dichloromethane  
1,2,4-Trichlorobenzene  
1,1,2-Trichloroethane

#### Radiologicals (As groups or individually)

Gross alpha  
Gross beta  
Radium 226  
Radium 228  
Tritium  
Strontium 89  
Strontium 90  
Iodine 131  
Cesium 134  
Cesium 137  
Cobalt 60  
Uranium

#### Organics (SOC 1) (As groups or individually)

Benzo(a)pyrene  
Di(2-ethylhexyl)adipate  
Di(2-ethylhexyl)phthalate  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Endrin  
Lindane  
Methoxychlor  
Toxaphene  
Chlordane  
Heptachlor  
Heptachlor epoxide  
Alachlor  
Atrazine  
Simazine  
PCBs \*\*  
(as decachlorobiphenyls)  
Pentachlorophenol

#### Organics (SOC 2)

2,3,7,8-TCDD (Dioxin)

#### Organics (SOC 3)

Ethylene Dibromide (EDB)  
Dibromochloropropane (DBCP)

#### Haloacetic Acids (HAA5)

Monochloroacetic Acid  
Monobromoacetic Acid  
Dichloroacetic Acid  
Trichloroacetic Acid  
Dibromoacetic Acid

#### Per- & Polyfluoroalkyl Substances (PFAS)

PFOA  
PFOS  
PFHxS  
PFNA  
HFPO-DA  
PFBS

#### NOTE:

- Laboratories must use:  
\*EPA 505, 508, or 525.2;  
\*\*EPA 508A only.