CONTAMINANTS TO BE TESTED IN ALL NEW SOURCES OF DRINKING WATER

(Based on Chapter 11-20, Code of Federal Regulations Title 40, Part 141, the Phase I and Phase II Rule, and the Phase V Rule)

MICROBIOLOGICAL

Total Coliform

Fecal Coliform (MPN) or E. Coli

Microscopic Particulate Analysis (surface water sources, springs, shafts, tunnels, and wells with less than 50 feet of solid grouting - by EPA Consensus Method, EPA 910/0-92-029, October 1992)

WATER QUALITY PARAMETERS

Alkalinity Calcium

Chlorine residual Conductivity

pH (field measurement)

Temperature (field measurement)

Turbidity

INORGANIC CHEMICALS

Antimony
Arsenic
Asbestos
Barium
Beryllium
Cadmium
Chromium
Copper
Cyanide
Fluoride
Lead

Nitrate (as nitrogen) Nitrite (as nitrogen)

Selenium Thallium

Mercury

Nickel

ORGANIC CHEMICALS

Volatile Organic Chemicals

Benzene

Carbon Tetrachloride
Chlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethylene
cis-1,2-Dichloroethylene
trans-1,2-Dichloroethylene

Dichloromethane

1,2-Dichloropropane (DCP)

Ethylbenzene Styrene

Tetrachloroethylene

Toluene

1,1,1-Trichloroethane

Volatile Organic Chemicals (cont.)

1,1,2-Trichloroethane 1,2,4-Trichlorobenzene Trichloroethylene Vinyl Chloride Xylenes (total)

Synthetic Organic Chemicals

2,4-D Alachlor Aldicarb

> Aldicarb Sulfone Aldicarb Sulfoxide

Atrazine

Benzo(a)Pyrene Carbofuran Chlordane Dalapon

Dibromochloropropane (DBCP) Di(2-ethylhexyl)adipate Di(2-ethylhexyl)phthalate

Dinoseb Diquat

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

Endothall Endrin

Ethylene Dibromide (EDB)

Glyphosate Heptachlor

Heptachlor epoxide Hexachlorobenzene

Hexachlorocyclopentadiene

Lindane Methoxychlor Oxamyl (Vydate) Pentachlorophenol

Picloram

Polychlorinated biphenyls (PCBs)

2,4,5-TP (Silvex) Simazine

Toxaphene

1,2,3-Trichloropropane (TCP)

PFOA PFOS PFHxS PFNA

HFPO-DA(GenX)

PFBS

RADIONUCLIDES

Beta/photon emitters Gross alpha particle Combined radium 226/228

Uranium

NOTES:

- (1) With the exception of turbidity and water quality parameters, all analyses must be performed by a laboratory certified or approved by the Hawaii Department of Health, State Laboratories Division. However, turbidity and water quality parameters must be done using EPA approved methods.
- (2) Please consult with the Safe Drinking Water Branch for acceptable laboratories to perform Microscopic Particulate Analysis.
- (3) All laboratory reports must be submitted to allow the Department of Health to verify that the analyses were performed by an approved laboratory, using EPA approved methods for drinking water analysis. The EPA method and detection levels must be clearly stated for each chemical contaminant tested.

The Director of Health may require additional analyses whenever appropriate to evaluate the new source.

SURFACE WATER AND GROUNDWATER UNDER THE DIRECT INFLUENCE OF SURFACE WATER (GWUDI) SOURCES ONLY:

The following additional water quality parameters may be required by the State at its discretion:

- Cryptosporidium, Giardia, E. coli and Turbidity monthly for 24 months
- Wet and dry weather Microscopic Particulate Analyses (MPA) using Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA), EPA 910/9 29-029 (October 1992)
- Particle sizing analysis (down to 2 μm) shall accompany MPA analyses. Results shall be tabulated, segregated by size in bins reflective of *Cryptosporidium* and *Giardia* sized particles, as well as those particles smaller and larger in size, e.g. <2 um, 2-5 um, 5-15 um, 15-30 um, 30-50 um, 50-100 um, >100 um.
- Total Suspended Solids (TSS)
- Color (True and Apparent)
- Total Organic Carbon (TOC)
- Dissolved Organic Carbon (DOC) fraction
- Total Trihalomethane Formation Potential (TTHM FP)
- Five Haloacetic Acid Formation Potential (HAA5 FP)

Additional source water sampling is required for surface water and GWUDI sources where Alternative Filtration Technologies (e.g. microfiltration, reverse osmosis, etc.) are proposed to meet the requirements of the Surface Water Treatment Rules. Refer to *Guidance for Use of Alternative Filtration Technologies* for all requirements for Alternative Filtration Technologies.

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