

### Water Quality Parameters for Monitoring Watershed Conditions post CZU Lightning Fire

Category	Water Quality Parameter	Individual Parameters
Primary Drinking Water Standards	Volatile Organic Compounds	Full Title 22 VOC Screen (including parameters such as Benzene, PCE, Toluene, and MTBE)
	Synthetic Organic Compounds	1,2,3-TCP, 2,4-D, Alachlor, Atrazine, Bentazon, Carbofuran, Diquat, Endothall, Ethylene Dibromide (EDB), Lindane, Oxamyl, Simazine
	Radiological	Gross Alpha, Radium 226, Radium 228, Uranium
Primary/ Secondary Water Standards	Inorganics	Aluminum, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Chromium IV, Cobalt, Copper, Lead, Lithium, Mercury, Molybdenum, Nickel, Perchlorate, Selenium, Silver, Thallium, Vanadium and Zinc
	Anions	Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate (Ortho/Total) and Sulfate
Secondary Drinking Water Standards	General Physical	Alkalinity, Color, Conductivity, Hardness, Odor, pH and Turbidity
	Metals	Cations (Calcium, Magnesium, Potassium and Sodium), and Total/Dissolved Iron and Manganese
	MBAS	Foaming Agents
Treatment	TOC/DOC	Total Organic Carbon/ Dissolved Organic Carbon
	UV254/SUVA	UV absorbance at 254 nm/ Specific Ultraviolet Absorbance
	TSS	Total Suspended Solids
	TDS	Total Dissolved Solids
	MIB/Geosmin	Methylisoborneol/Geosmin
Indicator	Microbial Profile	Bacteroides (Human Specific and Universal), Ms-2 Coliphage, Somatic Coliphage
	Total Coliform/ E.coli	
	Enterococci	
Environmental	Ammonia Nitrogen	
Unregulated Contaminants of Emerging Concern	PFAS/PFOS	Polyfluoroalkyl substances
	CEC	Contaminants of Emerging Concern (including parameters such as pharmaceuticals and personal care products)
	Dioxins/Furans	Polychlorinated, aromatic hydrocarbons released from municipal waste and residential wood combustion (including parameters such as 2,3,7,8-TCDD)

**Soil Parameters for Monitoring Watershed Conditions post CZU Lightning Fire**

<b>Soil Parameter</b>	<b>Individual Parameters</b>
Volatile Organic Compounds	Full Title 22 VOC Screen (including parameters such as Benzene, PCE, Toluene, and MTBE)
TOC	
Inorganics	Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Chromium IV, Cobalt, Lead, Lithium, Mercury, Molybdenum, Nickel, Perchlorate, Selenium, Silver, Thallium, Vanadium and Zinc
Metals	Cations (Calcium, Magnesium, Potassium and Sodium), and Copper, Iron and Manganese
Anions	Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate (Total) and Sulfate