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Table to help analyze field test results

Tier I Parameters	Potential Sources	Level of Concern
Ammonia-Nitrogen	Microbial decomposition of animal and plant proteins, sanitary wastewater, raw or partially-treated sewage, petroleum refining and chemical industries, synthetic fibers and dyes, drugs, pesticides, and fertilizer	1.0 mg/L
Chlorine	Used to indicate inflow from potable water sources; used as disinfectant in water and wastewater treatment processes	0.2 mg/L
Conductivity	Used to measure total dissolved solids (TDS); TDS can increase as a result of wastewater discharges, irrigation, and overuse of fertilizers	1500 μ S/cm
Copper	Can indicate waste from manufacture of electrical components, coins, bronze, and brass products	0.2 mg/L
Detergent	Can indicate a discharge from wash water or laundry	0.2 mg/L
pH	Extreme pH values (low or high) may indicate commercial or industrial flows	Below 6.0 su or above 9.0 su
Tier II Parameters	Potential Sources	Level of Concern
Bacteria (Fecal coliform; <i>E. coli</i>) [Ⓜ]	Can be found in the feces of human and other warm blooded animals from direct discharge	*400 col/100 mL - fecal coliform 394 col/100 mL - <i>E. coli</i>
Dissolved Oxygen (DO) [Ⓜ]	Low DO can indicate sewage problem or excessive nutrient load; as water temperature increases, DO generally	**Exceptional - 4.0 mg/L High/Intermediate - 3.0 mg/L

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	decreases	Limited - 2.0 mg/L Minimal - 1.5 mg/L
Fluoride	Potable water	0.5 mg/L
Lead	Used in construction material for tank linings, piping, and other equipment for corrosive gasses and liquids	0.1 mg/L
Nickel	Used in making stainless steel and other alloys, coinage, armor plates	0.2 mg/L
Nitrogen Nitrate Nitrite	High levels of nitrate may indicate biological waste or runoff from heavily fertilized areas; nitrites are often used as corrosion inhibitors in industrial process and cooling water and are used in food as preservatives	1.0 mg/L
Phosphates	Found in fertilizer and industrial waste	0.5 mg/L

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