

METALS / INORGANICS LABORATORY FEATURED ANALYSES

Target Analyte(s): High-level metals



Equipment: TJA SpectrAA 969 Flame Atomic Absorption Spectrophotometer

Featured Analyses

Metal	Range	Method	Wavelength
Calcium	0.1 - 20 ppm	Flame Absorption	422.7 nm
Copper	0.25 - 5 ppm	Flame Absorption	324.7 nm
Iron	0.3 - 10 ppm	Flame Absorption	248.3 nm
Lead	0.1 - 10 ppm	Flame Absorption	283.3 nm
Magnesium	0.1 - 2 ppm	Flame Absorption	285.0 nm
Sodium	0.1 - 100 ppm	Flame Emission	589.0 nm

Target Analyte(s): Low-level metals



Equipment: Hitachi Z9000 Graphite Furnace Atomic Absorption Spectrophotometer

Featured Analyses

Metal	Range	Method	Wavelength
Aluminum	5 - 200 ppb	Electrothermal Absorption	810.0 nm
Copper	5 - 100 ppb	Electrothermal Absorption	324.7 nm
Iron	5 - 100 ppb	Electrothermal Absorption	248.3 nm
Lead	5 - 100 ppb	Electrothermal Absorption	217.0 nm
Manganese	1 - 30 ppb	Electrothermal Absorption	279.5 nm



Dionex DX120 Ion Chromatograph with AS40 Automated Sampler
Current configuration analyzes for anions in drinking water

Featured analyses: Bromides, Chlorides, Phosphate, Sulfates
Also Fluorides, Nitrites, Nitrates if samples are < 24 hrs old
Approximate range: 0.1 to 100 mg/L each ion