Silver Bullet WATER TREATMENT

TREATING WATER. BETTER.

METALS ANALYSIS METHODS

ANALYTICAL SERVICES DIVISION

Colorimetric Analysis

Colorimeters and UV-Vis spectrophotometers are widely used in laboratory analysis for many metals, including iron and manganese. These methods are more accurate and sensitive than field methods, but are best preformed in a lab setting. Colorimeters rely on chemical reactions to quantify select constituents and as such are subject to interferences such as turbidity and various ancillary chemical reactions. Additionally, colorimeters typically require more hands-on work and are more time consuming than the other test methods.

ICP Analysis

ICP (Inductively Coupled Plasma) spectrophotometers are considered the "gold standard" for inorganic and metals analysis. ICP spectrophotometers work by completely ionizing the sample, separating the various ions, and detecting the various elements with a detector. This method is by far the most accurate and sensitive of those described here, allowing quantification well into the parts per billion (ppb) range. Because several aspects of ICP analysis can be automated, the test method allows for a greater sample throughput and faster turnaround time.

LEARN MORE:

For more information about our Analytical Services,water testing, and how we can help to improve your water, email us at info@silverbulletcorp.com or call us at (303) 552-2383. Find us online at: www.silverbulletcorp.com.

All Rights Reserved, 2021.