

# Environmental Analytical Laboratory

## List of Analytical Services

We offer comprehensive service which includes onsite field sampling/monitoring along with a wide range of analytical testing services. See the following table for a complete list of our analytical services.

Capabilities	Inorganics
Ultra-trace level mercury (CVAF, Thermo decomposition AA)	EPA1631E, 7473, 30B, 245, SW-846, etc.
Arsenic Speciation	LC-ICP/MSMS
Selenium Speciation	LC-ICP/MSMS
ICP Metals (Beryllium (Be), Boron (B), Aluminum (Al), Sodium (Na), Magnesium (Mg), Potassium (K), Calcium (Ca), Titanium (Ti), Vanadium (V), Chromium (Cr), Manganese (Mn), Iron (Fe), Cobalt (Co), Nickel (Ni), Copper (Cu), Zinc (Zn), Strontium (Sr), Molybdenum (Mo), Silver (Ag), Cadmium (Cd), Antimony (Sb), Barium (Ba), Tungsten (W), Titanium (Ti), Lead (Pb), Uranium (U))	ICP-MS
Rare Earth Elements (Cerium (Ce), Dysprosium (Dy), Erbium (Er), Europium (Eu), Gadolinium (Gd), Holmium (Ho), Lanthanum (La), Lutetium (Lu), Neodymium (Nd), Praseodymium (Pr), Promethium (Pm), Samarium (Sm), Scandium (Sc), Terbium (Tb), Thulium (Tm), Ytterbium (Yb) and Yttrium (Y))	ICP-MS
Lithium, Germanium, Gallium	ICP-MS
Ammonium	IC or ISE
Anions (e.g. Cl, F, Br, SO <sub>4</sub> , PO <sub>4</sub> , NO <sub>3</sub> , NO <sub>2</sub> )	IC
Wet Chemistry (titration, colorimetry, etc.)	UV-Vis, etc.
Routine Monitoring	
pH	pH meter
Hardness	Titration or ICP-MS
Alkalinity	Titration
Oxidants	Titration
Sulfite	Titration
Moisture, hydrate	Loss in weight in different temperatures.

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Turbidity	Turbidimeter
Total Suspended Solids (TSS)	EPA 160.2 / SM 2540D
Total Dissolved Solids (TDS)	EPA 160.1 / SM 2540C
Total Organic Carbon (TOC)	EPA 9060A
<b>Specialty Services</b>	
Leaching Environmental Assessment Framework (LEAF)	EPA 1313, 1314, 1315, 1316.
Toxicity Characteristic Leaching Procedures (TCLP)	EPA 1311
Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312
<b>Services</b>	
Field Sampling	Surface water, ground water, industrial wastewater, or other water streams
Contract Method Development	Trace metals, heavy metals, rare earth elements, speciation, new technology development,
Scientific Staffing	Quality laboratory staffing, technical support