**List of Utah Public Health Lab Services**

Three specialized laboratory teams perform environmental (water) microbiology, inorganic chemistry, organic chemistry, radiochemistry, and trace metals testing in the following areas:

**Drinking Water**

Drinking water is tested for toxic contaminants to assure public safety and compliance with drinking water standards. Our primary customers are the Division of Drinking Water (Utah Department of Environmental Quality) and public water utilities.

**Water Quality**

Water from streams, lakes, underground sources, and waste effluents are tested to determine if these meet water quality and permit standards. Our primary customer is the Division of Water Quality (Utah Department of Environmental Quality). Other state agencies such as the Divisions of Wildlife Resources and Utah Parks and Recreation are also served.

**Hazardous Waste**

Hazardous wastes are tested in support of state and local hazardous waste investigations and environmental cleanup programs.

**Leaking Underground Storage Tanks**

Soil and ground water are tested for the presence of petroleum products for the Utah Department of Environmental Quality.

**Emergency Response**

The laboratory maintains the capacity to perform emergency testing of samples from chemical spills. These services are available to the Utah Department of Environmental Quality, Utah Department of Health, Division of Comprehensive Emergency Management, and local health departments.

**Air Quality**

Ambient air samples are tested for lead and air particulates for the Division of Air Quality (Utah Department of Environmental Quality).

**Chemical Threat**

In conjunction with the Center for Disease Control and the US Environmental Protection Agency's Water Lab Alliance, our laboratory staff are trained to respond to natural, accidental and intentional chemical threat incidents.

**Microbiology**

The Bureau of Microbiology helps the state and local health departments investigate outbreaks and tests for infectious diseases.

**Virology**

STD Testing, Virology culture-respiratory, enteric, CDC Flu Project surveillance, Rabies

**Immunology**

Hepatitis testing, Quantiferon testing, hantavirus

**Molecular**

Influenza PCR subtyping, West Nile PCR (surveillance)

**New Born Screening**

The Bureau also provides testing for genetic disorders for all newborns in the State of Utah.

**Bioterrorism Testing**

The Bureau is a member of the Laboratory Response Network and its employees are trained and equipped to identify agents that could be used as biological weapons.

The Bureau also serves as a resource and reference laboratory to private laboratories in the state.

**Forensic Toxicology**

 Laboratory analyzes body fluids and tissues to determine the presence of alcohol, drugs, and other substances. Toxicology results are used to:

* assist medical examiners in determining cause and manner of death; and
* assist law enforcement agencies in cases involving driving under the influence (DUI) of alcohol and/or drugs, automobile homicides, and other crimes.

Toxicology staff conduct the analyses, issue reports on their findings, and provide court testimony to interpret the test results.