



## **“Sample Collection for Water & Wastewater Compliance” Workshop**

All samples collected for regulatory compliance must follow approved procedures. Data produced by any laboratory or field testing is only defensible if proper sample collection, preservation, and storage procedures are applied. The first link in the long chain of a sample’s life is the sample collection site. The determination of where and when to collect a sample is as important as the type of sample, proper sample preservation and storage, or the analysis itself.

In addition, incorrect or inconsistent sample collection locations can lead to misleading conclusions and invalid regulatory samples or investigatory studies. This is why developing a sample collection plan is essential for any compliance related monitoring, exploratory study, or investigation.

This workshop will explain what to consider when developing a sampling plan, the need to follow these plans once they have been established, as well as when and how to update them.

In our **“Sample Collection for Water & Wastewater Compliance”** workshop you will:

- Learn how to develop a sampling plan
- Discuss why it is important to follow the sampling plan
- Learn when and how to update a sampling plan
- Explore the characteristics and requirements of a variety of sample types (solid vs aqueous, grab, composite, split)

- Become familiar with commonly used sample collection equipment
- Study correct sample collection, preservation, storage procedures for the following parameters:
  - Total and Fecal Coliform
  - Chlorine
  - pH
  - Turbidity
  - BOD
  - Solids (TSS, VSS, TS, VS, TDS)
  - Nitrate
  - Nutrients
  - Metals
  - Organics

Throughout this workshop we will discuss real life scenarios to demonstrate how to utilize this information in your daily activities. To help you better understand and become comfortable with how to apply the material covered in this class, we will work through a variety of exercises reflecting problems and situations you may encounter while working in a municipal, governmental, private, or non-profit environment.