

# **Back to the Basics – Water and Wastewater Chemistry**

## **The New Jersey Water Association**

**Description:** This course developed by Michael Furrey from ILM Services will cover the basics of water and wastewater chemistry. The instructor will cover the basic chemistry for disinfection, chemical removal for surface water, groundwater and wastewater. Special emphasis will be placed on the chemistry of emerging contaminants of concern in our environment as well as the chemicals used in treatment.

### **Agenda:**

8:00-8:30	Check – In
8:30-9:30	Basic Chemistry of Surface Water and Groundwater
9:30-9:45	Break
9:45-10:45	Basic Chemistry of Wastewater
10:45-11:00	Break
11:00-12:00	Emerging Contaminants of Concern – Understanding the Chemistry
12:00-12:15	“Grab Your Lunch” Break
12:15-1:15	The Chemistry of Chemicals used in the Water/Wastewater Business
1:15-1:30	Concluding paperwork and adjournment

### **Instructor:** Michael J. Furrey, ILM Services

Michael J Furrey is the former Owner/President and private consultant of a NJDEP certified laboratory called Agra Environmental and Laboratory Services after working for 12 years for a major public water utility, the North Jersey District Water Commission. He is the founder of ILM Services. He is a 1987 graduate of Cook College, Rutgers University with a BS in Environmental Chemistry.

### **Date and Location:**

**December 16, 2025 – Hammonton Canoe Club, 100 Sports Drive, Hammonton (Atlantic County)**

**December 17, 2025 – Mount Olive Council Chambers, 204 Flanders-Drakestown Rd, Flanders (Morris County)**

### **Accreditation:**

4.0 Training Contact Hours for NJ-Licensed Water/Wastewater Operators. TCH Course Number 04-032501-30  
4.0 Hours toward license renewal for NJ Certified Public Works Managers: DLGS-NJWA-281 (4.0 Technical)

**Please plan to arrive at 8:00 am.**

**No more than four registrants per employer or system.**

**Pre-registration at [www.njwater.org](http://www.njwater.org) is required.**