



## **Developing TDS Permitting Strategies to Promote Greater Conservation, Encourage Increased Use of Recycled Water and to Address Drought-related Compliance Issues**

### **1) Background**

- a. All discharge permits in the Santa Ana region include limits on TDS primarily to protect the MUN & AGR beneficial uses in the underlying groundwater basins.
- b. Many dischargers (esp. POTWs) are approaching or exceeding these limits especially during drought conditions for reasons beyond their control.

### **2) Core Trends**

- a. Increased water conservation (low flow plumbing fixtures & appliances)
- b. Increased reliance on self-regenerating water softeners
- c. Increased TDS in imported water supplies (due to upstream discharges)
- d. Advanced wastewater treatment (disinfection, nutrient removal, odor control, etc.)

### **3) Cyclic Factors**

- a. Mandatory water conservation (temporary behavioral changes)
- b. Less high quality (low TDS) State Project Water available
- c. Increased reliance on higher TDS alternatives (Colo. River water & groundwater)
- d. Increased TDS in imported water supplies (due to reduced upstream precipitation)

### **4) Implications and Concerns**

- a. Permit violations (increment-of-use & annual averages); MMPs
- b. Potential 303(d) listings and probable TMDLs
- c. Discourages increased use of recycled water for irrigation and recharge

### **5) Potential Permitting Strategies**

- a. Update or delete "increment-of-use" effluent limitations
- b. Long-term rolling averages for TDS effluent limitations (esp. for MUN-exempt waters)
- c. Tiered effluent limits for TDS (normal and drought conditions)
- d. Compliance credits for TDS contributed advanced waste treatment
- e. Recognize offset credits from dedicated stormwater recharge projects
- f. Intake credits for TDS contributed by grandfathered water softeners
- g. Pre-allocate available assimilative capacity for drought-induced exceedances
- h. Clarify application of anti-backsliding requirements for TDS