

## VOLATILE ORGANIC CHEMICALS (VOCS)

**RULE:** 15A NCAC 18C Section .1515 – “Organic Chemicals Other Than TTHM, Sampling and Analysis” (Note: Federal Rule 40 CFR 141.24 incorporated into Section .1515 of NC’s Regulations by reference.)

**APPLIES TO:** Community and non-transient non-community systems

### **SAMPLING REQUIREMENTS:**

- **Sampling Location:** Entry points to distribution system [40 CFR 141.24(f)(1-3)]
- **Number of Samples Required:** One sample from each entry point [40 CFR 141.24(h)(1-3)]
- **Sampling Frequency:**
  - Initial/Routine – Four consecutive quarterly samples, every three years [40 CFR 141.24(f)(4)]
  - Reduced Monitoring – After initial 4 consecutive quarterly samples with no detections, the monitoring frequency can be reduced to annual. For a ground water system, the monitoring can further reduced to once every three years after 3 annual samples without detection. [40 CFR 141.24(f)(6)]
  - Waivers (if applicable) –N/A
  - Increased Monitoring – – Quarterly if  $\geq$  detection limit. [40 CFR 141.24(f)(11)]
- **Any Additional/Special Sampling Requirements:**
  - Quarterly monitoring requirements for vinyl chloride for groundwater systems if one or more specified two-carbon organic compounds are detected. [40 CFR 141.24(f)(11)(v)]
  - Confirmation Samples – may be required [40 CFR 141.24(f)(13)]

**COMPLIANCE WITH THE MCL:** For systems monitoring quarterly - based on the running annual average (RAA); For systems monitoring annually or less frequently, if the MCL is exceeded, quarterly monitoring is required; the system will not be considered in violation of the MCL until it has completed one year of quarterly sampling. [40 CFR 141.24(f)(15)]; See also Section .1518 – “Maximum Contaminant Levels for Organic Contaminants” [40 CFR 141.61].

### **INCOMING REPORT/PLAN SUBMITTALS FROM SYSTEMS TO THE STATE:**

- **Analytical Results for All Compliance Samples** MUST be submitted to the State by NC certified laboratories in required format. (15 NCAC 18C Section .1525; [40 CFR 141.31])
- **Sample Siting/Location Plans:** N/A
- **Waiver Applications:** N/A
- **Monthly Operating Reports:** N/A
- **Quarterly Status Reports and Corrective Action Plan Following MCL Violations**
- **Other Misc. Submittals if triggered by conditions of the rule:** N/A

### **OUTGOING ENFORCEMENT/REPORTS/APPROVALS FROM STATE TO SYSTEMS:**

- **Violation Letters:** Includes monitoring/reporting violations and maximum contaminant level (MCL) violations
- **Administrative Orders**
- **Administrative Penalties**
- **Exceedance Letters :** N/A
- **Increased Monitoring Letters:** Sent if VOC analyte specified in rule is detected; if detected, quarterly monitoring must commence.
- **Approvals:** Approvals/denials for reduced monitoring and Administrative Order deadline extension requests.

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