


COMMONWEALTH OF VIRGINIA  
Department of Environmental Quality  
Division of Water Programs Coordination  
Larry G. Lawson, P.E., Director

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Subject: Guidance Memo No. 01-2013, Amendment #2  
Checklists for Wastewater Laboratory Inspections

To: Regional Directors

From: Larry G. Lawson, P.E., Director 

Date: May 10, 2002

Copies: Regional Permit Managers, Regional Compliance and Enforcement Managers,  
Regional Water Compliance Managers, Martin Ferguson, Jon van Soestbergen, Bill  
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**Summary:**

Several of the laboratory inspection checklists for methods used for VPDES or VPA monitoring have been updated and a new checklist has been created for Chemical Oxygen Demand. The checklists are located on DEQ's web page at <http://www.deq.state.va.us/forms/checklist.html> .

## Contact information:

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## Disclaimer:

**This document is provided as guidance and, as such, sets forth standard operating procedures for the agency. However, It does not mandate any particular method nor does it prohibit any particular method for the analysis of data, establishment of a wasteload allocation, or establishment of a permit limit. If alternative proposals are made, such proposals should be reviewed and accepted or denied based on their technical adequacy and compliance with appropriate laws and regulations.**

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Several of the laboratory inspection checklists for analytical methods used for VPDES or VPA compliance monitoring have been updated and a new checklist has been created for Chemical Oxygen Demand (COD). The checklists are located on DEQ's web page at <http://www.deq.state.va.us/forms/checklist.html>.

The following list indicates what changes were made:

- Method 624** rev 04-02 - Purgeables (GC/MS) [#28 & 29- wording is changed. Request for column used is eliminated.]
- Method 625** rev 04-02 - Base/Neutrals and Acids (GC/MS) [#15- changed pH requirement to <2. Request for column used is eliminated.]
- Balance** rev 04-02 - Analytical Balance [Changed weights to Class 1.]
- COD** rev 04-02 - Chemical Oxygen Demand [New checksheet]
- Fecal A1** rev 04-02 - Fecal Coliform using A-1 Media [#3- note added indicating that heat sinks are approved for use as incubator.]
- Fecal mf** rev 04-02 - Fecal Coliform using Membrane Filter [#30- wording and citation are changed]
- Mercury** rev 04-02 - Mercury [#1- wording is changed. Intent remains the same.]
- Metals** rev 04-02 - Metals [#1- wording is changed. Intent remains the same.]
- NH3 ISE** rev 04-02 - Ammonia Nitrogen using Ion Specific Electrode [#12- reworded and removed reference to semilog graph paper for establishing linearity.]
- NO2-NO3** rev 04-02 - Nitrate-Nitrite Nitrogen using Cadmium Reduction [#21- word "turbid" added; #31- number of standards required is added; #33- wording is changed. Intent remains the same.]
- NO2 Spec** rev 04-02 - Nitrite Nitrogen using Spectrophotometer [#9- reagent at 4°C for SM only.]
- NO3 Brucine** rev 04-02 - Nitrate Nitrogen using Brucine Method [#19- word "approximately" added.]
- O & G** rev 04-02 - Oil and Grease using Partition Gravimetric [#3- changed Freon production date to prior to Jan. 2001.]
- O-Phos** rev 04-02 - Orthophosphate using Ascorbic Acid [#19- wording is changed. Intent

remains the same; #21- indicates number of standards needed for calibration curves.]

**Templog** rev 04-02 - Equipment Temperature Log [Degree symbol is given only in the column heading.]

**TRC DR100** rev 04-02 - Total Residual Chlorine using HACH DR100 [#3- citation changed to "Permit"; #4- added. It addresses reagents used to adjust pH.]

**TRC Pocket** rev 04-02 - Total Residual Chlorine using HACH Pocket Colorimeter [#3- citation changed to "Permit".]

**TRC LaMotte** rev 04-02 - Total Residual Chlorine using LaMotte Method 7916 [#6- requires verification of factory installed calibration curves.]