



# **Guidance for CAN-P-1510D and Appendix**

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Canadian Association for Environmental Analytical  
Laboratories

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# Metals Appendices

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- Appendix: unique matrix-test method combination
- Test Method: Defined, as appropriate, in terms of analytical technique AND sample preparation (e.g., ICP-digestion, GC/MS-extraction)
- Dissolved, Total and Extractable metals have different sample preparation therefore need to be in separate appendices

# Microbiology Appendices

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- Appendix: unique matrix-test method combination
- Test method using different media, incubation conditions etc...constitutes a different method
- Total coliforms using mENDO is different from fecal coliforms by mFC
- Total coliforms and *E. coli* using Colilert or DC media is considered one method

# CCME Methods

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- Implementing the use of a CCME-specific checklist



## Non-routine tests

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- CAEAL policy: definition of a routine test is that a test is done once every 3 months
- If not done at least once every 3 months:
  - Cannot attain/maintain accreditation, or
  - Required action: provide evidence of competency and a policy to do the test routinely

# Catch-22



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- Catch-22: labs requiring accreditation before obtaining samples vs sample load to provide on-going data
  - Ensure adequate method development and validation
  - Recommend accumulation of on-going QC data or implementation of procedures that will be looked at again (1 year for new labs; 2 years for accredited labs or flag for a verification visit)
  - Flag appendices such as this to CAEAL on the Completion Report and/or in the assessment report



## Recurring “B” Items

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- If a recommended item recurs at the next site assessment, it will be cited as a required action
- Severity is no longer the issue - the issue is that the item must be addressed as it is a non-conformance to the standard



## CAN-P-1510D: A.05.01

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- *Ensure that subcontractors are competent (e.g., comply with CAN-P-4D) and maintain records of competent subcontractors used*
- Accredited tests must be subcontracted to competent (accredited) labs that are recognized by the SCC



## CAN-P-1510D: A.12.04

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- *Ensure records maintained contain sufficient information to: identify factors affecting uncertainty and enable the original method conditions to be repeated*
- Intent: maintenance of sufficient records



## CAN-P-1510D: B.09.01

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- *Provide test reports that contain a statement to the effect that the results relate only to the items tested or calibrated, where relevant*
- D92.5: There are very few cases where this is NOT relevant; intent is for the laboratory's protection

# CAN-P-1510D: B.09.01



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- *Publicity guidelines: This laboratory is accredited by the SCC, in cooperation with CAEAL. The tests included in this report are within the scope of this accreditation.*
  - Change: tests outside the scope of accreditation can be included on the test report provided they are identified and there is a clear disclaimer (e.g., This laboratory is not accredited for tests marked\*).



## Appendix: 03.04

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- *Ensure method calibration is adequate and either included or referenced in the test method; i.e., adequate number of standards (suggest 1 standard less than 10X the detection limit)*
- CAN-P-1598: There must be evidence to show that the analytical response is valid at the lower range of the calibration curve, particularly if the analyte concentration is routinely in the low range.

## Appendix: 03.05

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- *Ensure method quality control is adequate and either included or referenced in the test method; e.g., participation in a proficiency testing program*
- Must participate in CAEAL PT where offered - “A” item
- Encourage participation in other PT programs, especially in those cases where accreditation is not supported by CAEAL PT - “C” item

# Appendix: 07.01

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- Where volumetric traceability is critical to the quality of the test result, use of Class A glassware will meet the requirement
- Hamilton syringes: meet requirements for traceability