

## 2009 CAM Revisions Work Group

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#### Meeting Minutes from September 22, 2009

**Present: Don Muldoon, Liz Denly, Susan Chapnick, Jim Occhialini, Tod Kopyscinski, Heather Beaudoin, Charles Morrow, Mike Reed, Steve Hartmann, Kim Reid, Dallas Wait, Michael Erickson, Laurel Stoddard, Liz Callahan**

#### **1. Liz Denly presented the Air Methods Subcommittee's recommendations for CAM Protocols for APH and TO-15.**

- Copies of the draft performance standard tables were provided as handouts. Highlights of the performance standard tables for each CAM Protocol were presented to the Work Group.
- APH: Performance standard table is fairly straight-forward with QC taken directly from MassDEP method. LCS duplicates and ICVs were noted as not being required. Some of "different" required deliverables were brought to the attention of the Work Group, including media certification and flow controller calibration RPDs.
- TO-15: Performance standard table presented to Work Group. Many of the criteria were noted to be similar to APH. LCS duplicates and ICVs were noted as not being required. Some highlights of the discussion:
  - Some of "different" required deliverables were brought to the attention of the Work Group, including media certification and flow controller calibration RPDs.
  - Currently 4 labs are being surveyed for a list of "difficult" analytes for calibrations and LCSs; will update table to reflect these analytes and relaxed limits for these analytes.
  - If compound on the CAM TO-15 list is not on the EPA TO-15 list, the CAM method will provide the required primary/secondary ions for quantitation; otherwise, the TO-15 method will be referenced for Identification criteria.
  - Option for SIM analysis will be included in CAM method; typical reporting limits (CAM RLs) for full scan and SIM will be provided.
  - Text from CAM 8260B on TICs will be included in the CAM TO-15 document. The 8260B TIC language will be toned down to note that TICs can be used as a screening device for TO-15. The TIC Appendix from 8260B will be included in the CAM TO-15 document.
  - A discussion on the CAM TO-15 analyte list took place. No final decisions have been made on this analyte list. At a minimum, the compounds for which threshold values exist will be on the list (with the exception of 2-mehylnaphthalene). Currently, 4 labs are being surveyed to determine what their "routine" TO-15 lists are; from this, it will be determined by DEP staff (coordinated by Liz Callahan) if other compounds should also be on the CAM TO-15 list. The compounds for which SIM is required to achieve threshold values will be provided to DEP staff.
  - Potential cost implications associated with the need for SIM analysis to achieve the threshold values were brought to the attention of DEP staff.
- The APH and TO-15 CAM Protocols will be provided to the DEP Indoor Air Work Group to ensure the CAM documents and the Indoor Air Work Group documents do not conflict. The Indoor Air Work Group will need to be sure to reference the CAM Protocols in their document. Liz Callahan will speak to Gerard Martin to let him know this will happen.

## 2. Susan Chapnick presented the Perchlorate Subcommittee's recommendations for the new CAM Method.

- The CAM Protocol references both EPA Method 332.0 and SW-846 method 6860. Performance standards, in general, represent the tighter criteria of the two methods.
- The CAM RL for aqueous samples will be 0.1 µg/L.
- The CAM Protocol will allow for the use of ESI-MS/MS in addition to ESI/MS.
- Steve Hartmann of Test America will forward the performance standard table to one of the Test America facilities that performs this method as currently (there was only 1 lab participating on this subcommittee due to the specialized nature of the analysis).
- Copies of the draft performance standard tables were provided as handouts. Highlights of the performance standard tables were presented to the Work Group.
  - Blank criteria: "< RL" used instead of 332.0 requirement of "<1/3 RL" as RL is significantly below MassDEP GW-1 standard and 332.0 was intended for drinking water.
  - ICV and CCV: tighter 6860 criteria used (85-115%)
  - Low-level CCV: Criteria of 70-130% are tighter than listed in both methods (50-150%) but according to the lab, very achievable and consistent with inorganics CAM criteria.
  - Solid LCSs will be required; the availability of these from ERA was confirmed.
  - Internal standard rejection criteria are proposed as 10% as the internal standard in this method is more like a surrogate (spiked in prior to preparation of samples for solids).
  - Matrix duplicate: tighter aqueous criteria from 6860 used (RPD ≤15); solid RPD criteria will be ≤30.
  - Values below the RL can be reported and must be qualified as estimated.
- Work Group comments on this table must be sent to Susan by October 2.

## 3. Outstanding Method Issues: The following bullets address the highlights of this discussion:

- The holding times for herbicides will be as follows:
  - Solid samples: 14 days to extraction; 28 days to methylation; analysis immediately after methylation.
  - Aqueous samples: 7 days to extraction; 28 days to methylation; analysis immediately after methylation.
- A handout on CAM RLs for the SVOC, pesticide, PCB Aroclor, herbicide, VPH, and EPH methods was provided.
- Decided that justification for CAM requirement for MS on inorganics methods would be placed in the individual method texts and not in CAM VII.

## 4. CAM VIIA Discussion

- Copies of the current CAM VII A document were provided as handouts.
- There were no comments from the Work Group on the revised Presumptive Certainty flow chart.
- Section 2.4: Laboratory Report
  - It was decided to include a table of the required information in the laboratory report instead of the bulleted list.
  - The requirement to include Current Certifications will be eliminated.
  - It was decided that Analyst Initials will be required since all labs are routinely providing this information.
  - A reference to the CAM APH and TO-15 Protocols will be included in the table for additional reporting requirements associated with the air samples.

- Certification Form: The only comment on the form was to include 6860 for perchlorate instead of 332.0 to be consistent with the use of SW-846 methods for the other parameters.
- Certification Form Clarifications Page:
  - Question A: Clarification will be included that if samples are delivered to the lab on the same day of collection and temperatures are outside of required criteria, the answer to the question can be “YES” if samples are received on ice the same day of collection. It was also decided that a note for this issue would be included in each method on the holding time table.
  - Question D: change “Does the lab report contain *pertinent...*” information to “Does the lab report contain *required...*” information.
  - Question E: Clarification will be included to leave this blank (unanswered) if APH/EPH/VPH methods were not performed.
- MCP Analytical Services Request Form:
  - The word “Optional” will be added to the title of the form.
  - Question 5: will be changed to “<-7°C”.
  - Footnote 4: “Field QC” will be replaced with “MS/MSD”.
- Section 2.5.3: Field QC for Drinking Water Samples
  - Table VII A-3, Minimum Field QC for Drinking Water Samples: Footnotes a and b will include a note that the field duplicates and MS/MSDs are not required if this is an on-going monitoring program and these QC samples were collected with the initial round.
  - The text describing what would not be considered “drinking water” will be revised to eliminate “or from a drinking water supply monitored for known contamination.”
- Section 3.2: The example at the end of this section describing EPCs will be eliminated.

## 5. Miscellaneous Issues

- Liz will develop a schedule for the posting of CAM Protocols and submit to Don. The schedule will include the anticipated date of posting and the 30-day review period.

6. **Next meeting** will be held at MassDEP Central Office, 627 Main Street, Worcester, MA on December 15, 2009 beginning at 9:15 AM, if needed, to review public comments on CAM protocols.

## 7. Summary of Action Items:

1. Liz Denly will send Liz Callahan a summary of the routine analytes reported by the labs for TO-15. The summary will also highlight those compounds where SIM is required to achieve the threshold values.
2. Liz Denly will coordinate with Liz Callahan on getting the CAM Air methods to the DEP Indoor Air Work Group for review.
3. Steve Hartmann of Test America will forward the perchlorate performance standard table for review to one of the Test America facilities that performs this method.
4. Work Group members will provide comments on the perchlorate performance standard table to Susan Chapnick by October 2.
5. Liz Denly will submit a CAM Protocol posting schedule to Don Muldoon. After CAM protocols are posted, Susan Chapnick will make sure an email announcement goes out to the LSP community through the LSP Association to encourage comments.
6. Don will update CAM overview document for consistency with CAM VII.

Thank you all for participating in this important Workgroup to assist DEP in continuing improvement and consistency of the quality of chemical data to support MCP decisions.