

**TNI Chemistry FoPT Subcommittee
Meeting Summary
June 3, 2014**

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on June 3, 2014 at noon Eastern. Attendance is recorded in Attachment A. There were 8 members on the call.

The meeting minutes from May 6, 2014 were reviewed. Dan motioned to approve the minutes. The motion was seconded by Stephen and unanimously approved.

2. Drinking Water FoPT Table

Carl attended the NELAP AC meeting yesterday and got an opportunity to ask some questions about the drinking water table. Carl sent an email to the subcommittee with the following changes:

- Added Footnote 16 to the table because the PTPEC wanted it added. Text: 16) The specified concentration ranges and acceptance criteria are intended for technologies/methods that can achieve the listed PTRL.
- He discussed Total Cyanide and the NELAP AC opinion was to try to keep it simple. He made the following change to Footnote 13b: b) Design criteria for Total Cyanide – uncomplexed, e.g., Potassium Cyanide. If this formulation is used, the PT is appropriate for Total Cyanide, Available Cyanide, Cyanide Amenable to Chlorination, Free Cyanide, and Weak Acid Dissociable Cyanide fields of accreditation. The NELAP AC was happy with this footnote.

Discussion:

Jeff commented that under the example for the Trichloropropane - if we took it and extended it to the NPW table we would have to add the footnote to all the low level PAHs. Also Mercury Low Level. He wanted to know if the footnote is really needed. He suggested putting the footnote on the title or header and not the analyte – Low Level Volatile Organics.

Carl has an issue with the DW table. EDB and DBCP are only listed once, so he is not comfortable with adding this footnote because of technology discussions. He also noted that there are ABs that only accredit for these analytes using 504.1 – so they are going to veto the table if EDB and DBCP are added at a higher concentration range. They are concerned the labs will try to run the higher concentration PT for the 504.1 accreditation. Carl is no longer planning to submit the petition he mentioned earlier to add the higher level EDB and DBCP PTs.

Regarding Cyanide, Dan commented that the code also needs to be updated to 1635.

A question came up about Free and Total Cyanide. Carl noted that the CFR states Cyanide as Free Cyanide and he disagrees with Michella's comment from EPA. Dan commented that we should follow what EPA wants. Carl stated that he has added the footnote as requested.

Jeff commented that it does not make sense that the PTs are formulated for Free Cyanide. Andy thinks this subcommittee should bring up this issue with the PTPEC or NELAP AC and work through ELAB to have the Federal Register corrected. The PTs should be designed to work with Free Cyanide and Total Cyanide. PTs that can't find Complex Cyanides are not protecting public health.

Andy does not think the other Cyanides should be noted in footnote 13b. Carl noted that the promulgated approved methods in DW cyanide descriptions in their scope and applications sections.

Jeff asked if Total Cyanide can be left on the table and that Free Cyanide be added. Dan and Carl think this would be confusing to ABs and labs. Jeff noted that 1645 is Total Cyanide, 1635 is Cyanide and there is also a code for Free Cyanide. Dan commented that New York used to have multiple PTs and moved back to one because of confusion. He also noted that if there were 2 PTs – one would have to have a complex component otherwise it would be a waste of time to run two PTs with the same starting material.

Carl recommends the subcommittee approve the DW table as he amended it – with the possible exception of Footnote 16.

Dan motioned to accept the modifications to the DW table with the possible exception of Footnote 16 that Carl submitted to the subcommittee on June 2, 2014.

The motion caused further discussion because a second was not immediately given.

Andy asked again why the other forms of Cyanide are noted in Footnote 13b. Carl responded that the promulgated ASTM method has in its Scope and Application both Total Cyanide and Weak Acid and Dissociable Cyanide depending on the pH of the sample. Other methods are for Available Cyanide and Weak Acid and Dissociable Cyanide as stated in the Scopes. Laboratories are requested to be accredited for cyanide types even though it is not for primary DW regulations. Carl also noted that the methods being discussed are listed in the Federal Register, but it does not clearly define which options within the method must be followed.

Andy commented that the table should be changed to Cyanide – not Total Cyanide – and then the PTPEC should work through ELAB to have the Federal Register corrected. Florida's current application has Total Cyanide listed.

Dan amended his motion to only accept the DW FoPT table without the footnote changes prepared by Carl on June 2, 2014. Only change the name throughout the table from Total Cyanide to Cyanide (including use in Footnote 13b) and correct the analyte code to 1635. The

motion was seconded by Jeff. The motion was unanimously passed by the 8 subcommittee members on the call.

3. Non-Potable Water FoPT Table

Jeff requested that the NPW FoPT table be changed - change the location of the footnote on the Low Level Halocarbons. It should show up on the title instead of the individual analytes. Carl was in agreement.

Joe M. made a motion to change the placement of Footnote 11 on the Low Level Halocarbons from placement on individual analytes to the header/title instead. The motion was seconded by Andy. There was no further discussion. The motion was unanimously passed.

Carl will make the changes and submit the updated table to the PTPEC.

4. SCM FoPT Table

Beryllium

The study concentration was 56 – 196 mg/Kg. SOP criteria was passed and it passed criteria for fixed limits at 24.5%. The PDF is dated 4-30-14. The current concentration range is 40 – 400 mg/Kg. Carl does not recommend using fixed limits.

Jeff raised a concern about setting a regression equation for a PT that is spiked into various solid matrices and prepared by multiple PT Providers. Carl acknowledged the concern and said he did not think it was a problem in this case based on the data provided.

A motion was made by Dan to leave a concentration limit of 40-400 mg/Kg for Beryllium on the SCM FoPT accreditation table using the new abcd coefficients as presented on the PDF file dated 4-30-14. The motion was seconded by Joe P. Vote: 7 – For 1 – Against (Jeff) 0 – Abstain. The motion passes.

Chromium

The study concentration was 68-310 mg/Kg. SOP criteria was passed and it passed criteria for fixed limits at 25.2%. The PDF is dated 4-30-14. The current concentration range is 40 – 400 mg/Kg. Carl does not recommend using fixed limits. Andy noted that he sees excellent performance of this analyte in his lab.

A motion was made by Joe P. to leave a concentration limit of 40-400 mg/Kg for Chromium on the SCM FoPT accreditation table using the new abcd coefficients as presented on the PDF file dated 4-30-14. The motion was seconded by Andy and unanimously passed.

Cadmium

The study concentration was 44-294 mg/Kg. SOP criteria was passed and it passed criteria for fixed limits at 23.4%. The PDF is dated 4-30-14. The current concentration range is 40 – 400 mg/Kg. Carl does not recommend using fixed limits. Andy commented good laboratory performance on this analyte too.

A motion was made by Andy to leave a concentration limit of 40-400 mg/Kg for Cadmium on the SCM FoPT accreditation table using the new abcd coefficients as presented on the PDF file dated 4-30-14. The motion was seconded by Joe P. and unanimously passed.

5. Action Items

See action item table in attachments.

6. New Business

- Joe M. noted that labs of an exemption for the use of Class 1 Ozone depleting substances. EPA has done nothing to extend this exemption as of first part of May. If EPA continues to do nothing, PT Providers will not be able to include these substances in PTs after the first of the year. Carl noted that this is an issue for the PTPEC. Carl asked that Joe send him the information and he will forward it to Michella.

7. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee has been scheduled for June 17, 2014.

Action Items are included in Attachment B and Attachment C includes a listing of reminders.

The call was ended at 1:33pm EST. Motion – Dan Second - Andy Unanimously approved.

Attachment A

Participants TNI Chemistry FoPT Subcommittee

Members	Affiliation	Contact Information
Carl Kircher, Chair Present	Florida DOH	carl_kircher@doh.state.fl.us
Joe Morotti Present	Sigma-Aldrich RTC	Joe.morotti@sial.com
Melanie Ollila Absent	Pace Analytical Services, Inc.	MOllila@pacelabs.com
Jeff Lowry Present	Phenova	JeffL@phenova.com
Stephen Arpie Present	Absolute Standards, Inc.	stephenarpie@mac.com
Dan Dickinson Present	New York, DOH	dmd15@health.state.ny.us
Stacey Fry Present	E.S. BABCOCK & Sons, Inc.	sfry@babcocklabs.com
Joe Pardue Present – Added in 12:50.	Pro2Serve, Inc.	423-337-3121 joe_pardue@charter.net
Dr. Andy Valkenburg Present	Energy Laboratories, Inc.	avalkenburg@energylab.com 406-869-6254
Ilona Taunton, Program Administrator Present	TNI	ilona.taunton@nelac-institute.org 828-712-9242

Attachment B

Action Items – Chemistry FoPT Subcommittee

	Action Item	Who	Expected Completion	Actual Completion
102	Data work-up when it comes in for analyte additions.	Carl	tbd	In Progress
108	Prepare letter and send NPW FoPT table back to the PTPEC with the subcommittees recommendation.	Carl	6/3/14	Complete
109	Send Carl an application to add analytes to an FoPT table.	Ilona	6/3/14	Complete
110	Update NPW and DW FoPT tables and send back to PTPEC.	Carl	6/16/14	
111	Receive info on Class 1 Ozone Exemption from Joe M. and forward to Michella.	Carl	6/16/14	

Attachment C

Backburner / Reminders – Chemistry FoPT Subcommittee

	Item	Meeting Reference	Comments
4	Consider nomenclature differences between the analyte codes and the FoPT tables.	2-23-10	
10			