

TNI Chemistry FoPT Subcommittee
Meeting Summary
December 17, 2013

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on December 17, 2013 at 12:13 EST. Attendance is recorded in Attachment A. There were 7 members on the call.

The last committee meeting was November 5, 2013 and the meeting minutes were approved by e-mail (A motion was made by Joe P. and seconded by Andy. Vote: 5 (Joe, Andy, Stacey, Stephen, Dan) - For 0 - Against 4 - Abstain or No Vote. The motion passed.)

2. SOP Update

Stacey has been participating on the subcommittee that is updating the Limit SOP. There was a question that came up during their last meeting:

- What is done during peer review?
 - o The FoPT table is prepared based on the Excel Summary file that is updated each meeting after limits are updated.
 - o The DRAFT FoPT table is distributed to subcommittee members for review.
 - o The DRAFT FoPT table is then discussed during the following meeting and a vote is taken.
 - o One additional requirement to be added: The Excel table needs to be compared to the minutes since it is what is used to prepare the FoPT table.

3. SCM FoPT Table

1,2-Dichloroethane (Mid-level)

The study concentration was 1670 - 9680 ug/Kg. It passed the SOP criteria. The current lower limit is 1500 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria – the d coefficient did not pass. The PDF is dated June 28, 2011.

The experimental analyte, 1,1-Dichloroethene was approved for fixed limits even though it did not pass all three fixed limit tests. It was approved at +/- 50% fixed limits. If fixed limits were considered for 1,2-Dichloroethane, Carl would recommend +/- 30%. Dan suggested moving to a lower concentration range of 2000 ug/Kg if fixed limits are used. If the concentration remains the same, he preferred using the new regression equation.

Andy prefers the regression equation because it widens the limits at the lower concentration compared to Carl's proposed +/- 30%.

A motion was made by Dan to leave a concentration limit of 1500 - 10000 ug/Kg for 1,2-Dichloroethane on the SCM FoPT accreditation table and use the new regression equation with the abcd coefficients described in the PDF provided by Jeff by on June 28, 2011. The motion was seconded by Andy. The motion passed unanimously.

2,4-D

The study concentration was 71.1 - 540 ug/Kg. It passed the SOP criteria. The current lower limit is 100 ug/Kg. It did pass the fixed limit tests as per the SOP criteria at 172.5%. The PDF is dated March 11, 2010. Current criteria is study mean +/- 3 standard deviations. 2,4-DB was added to the table back in 2010 at study mean +/- standard deviations.

Andy's limits are 30-120% for this analyte. Dan thinks the RSD is wide and the 10% rule is in effect. This is a very difficult method to achieve a quantitative number and in many ways it is a presence/absence test. Stacey's in house limits are 22-110%. If limits were developed based on the data they would be +/- 300%. No one thought this was acceptable and preferred to see the limits be left alone.

A motion was made by Joe M. to leave a concentration limit of 100 - 1000 ug/Kg for 2,4-D on the SCM FoPT accreditation table and leave the acceptance criteria as study mean +/- 3 standard deviations. The motion was seconded by Stacey. The motion passed unanimously.

2,4,5-T

The study concentration was 73.4 - 588 ug/Kg. It did not pass the SOP criteria for Mean R² Eval > 0.9. The current lower limit is 100 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed d coefficient). The PDF is dated March 11, 2010. The PDF files looks very much like 2,4-D and Carl recommends a similar action.

Andy's laboratory limits for the analyte are 47.9 – 121%.

A motion was made by Andy to leave a concentration limit of 100 - 1000 ug/Kg for 2,4,5-T on the SCM FoPT accreditation table and leave the acceptance criteria as study mean +/- 3 standard deviations. The motion was seconded by Joe. The motion passed unanimously.

2,4,5-TP (Silvex)

The study concentration was 42.9 - 436 ug/Kg. It did not pass the SOP criteria for Mean R² Eval > 0.9. The current lower limit is 100 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed d coefficient). The PDF is dated March 11, 2010. The PDF files looks very much like 2,4-D and 2,4,5-T and Carl recommends a similar action.

Andy's laboratory limits for the analyte are 50-117%. Stacey's limits are 48-110%.

A motion was made by Dan to leave a concentration limit of 100 - 1000 ug/Kg for 2,4,5-TP on the SCM FoPT accreditation table and leave the acceptance criteria as study mean +/- 3 standard deviations. The motion was seconded by Joe. The motion passed unanimously.

Dicamba

The study concentration was 25.1 - 593 ug/Kg. It did not pass the SOP criteria for Mean R² Eval > 0.9. The current lower limit is 100 ug/Kg. It did pass the fixed limit tests as per the SOP criteria at +/- 165.3%. The PDF is dated March 11, 2010. The PDF files look very much like 2,4-D, 2,4,5-T and 2,4,5-TP and Carl recommends a similar action.

Andy's laboratory limits for the analyte are 62 - 118%. It is better performing than the other compounds just reviewed. Stacey's limits are 40 - 125%.

A motion was made by Joe M. to leave a concentration limit of 100 - 1000 ug/Kg for Dicamba on the SCM FoPT accreditation table and leave the acceptance criteria as study mean +/- 3 standard deviations. The motion was seconded by Dan. The motion passed unanimously.

These were the last of the fields of proficiency testing available for review at this time. Carl and Dan will continue work on preparing new data for the subcommittee to review.

4. Action Items

See action item table in attachments.

5. New Business

- An application has been turned in for the addition of analytes (or more specifically analyte concentrations) to the NPW FoPT table.

6. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee will be scheduled for January 14th. Carl and Dan should have data available for review.

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

Stacey motioned to adjourn the meeting and Joe seconded the motion. Unanimously approved. The meeting was adjourned at 1:05 pm EST.

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 Absent	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 after 12:30pm	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
101	Prepare data and calculations for next range of analytes.	Carl Dan	12-2-13	Delayed to 1/14/14

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			