

TNI Chemistry FoPT Subcommittee
Meeting Summary
April 21, 2015

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on April 21, 2015 at 12:07 ET. Attendance is recorded in Attachment A. There were 7 members on the call. Associate member: Steve Arms listened in.

There were some issues with the phone line breaking up, so Ilona will use the recording to prepare minutes.

Carl continues to maintain the updated concentrations and limits on the SCM Excel Summary table for use at each meeting.

2. SCM FoPTs

Naphthalene

There were two PDFs sent for this analyte on 2-24-15. The study concentration was 603 - 6049 ug/Kg. The PDF is dated 2-24-15. The current concentration limits are 1000 – 12000 ug/Kg. It did pass criteria for fixed limits at 72.2%. It passed the Stdev R² Eval > 0.75.

Carl's PDF has a higher d coefficient and a lower c coefficient compared to Dan's. Carl's graph looks more like what is currently posted, but his limits are wider than the current. Dan noted that there is not much difference.

Carl summarized the results of the last call for Jeff who was not able to attend. The results are also summarized on the SCM Excel Summary Table.

Andy noted that his lab statistical limits are 58-96% with an average recovery of 77%. Andy prefers Carl's graph - it is more consistent and he had less outliers.

A motion was made by Jeff to leave the concentration limit as 1000-12000 ug/Kg for Naphthalene on the SCM FoPT accreditation table and using the study mean and the new cd coefficients as presented on the Carl PDF files dated 2-24-15. The motion was seconded by Andy and passed unanimously.

Joe Pardue joined the conference call.

Fluoranthene

The study concentration was 786 - 7403 ug/Kg. The PDF is dated 2-24-15. The current concentration limits are 1000 – 12000 ug/Kg. It did pass criteria for fixed limits at 56.7%. It passed the Stdev R² Eval > 0.75.

There was quite a bit that needed to be done to eliminate convergence. There were quite a few of outliers and one point had to be put back in to avoid a negative d coefficient. He recommends keeping the current equation given all the work that needed to be done. Jeff confirmed that the SOP was followed in making these decisions.

Andy noted that his lab statistical limits are 70-109% with an average recovery of 90%. This is consistent with the Excel table.

A motion was made by Dan to leave the concentration limit as 1000-12000 ug/Kg for Fluoranthene on the SCM FoPT accreditation table and keep the currently posted coefficients/equation. The motion was seconded by Joe P. and passed unanimously.

Fluorene

The study concentration was 210 - 8103 ug/Kg. The PDF is dated 2-24-15. The current concentration limits are 1000 – 12000 ug/Kg. It did not pass criteria for fixed limits. It passed the Stdev R² Eval > 0.75.

Carl prefers the new equation because the d coefficient is a little smaller. Jeff pointed out that there is a study where concentration is not within the range. He thinks this is a problem. Its acceptance limits are tight. Carl said it didn't fall out when applying the SOP. It has 61 data points and was done in 2010. Carl does not think it hurt anything in the data analysis.

Andy noted that his lab statistical limits are 65-103% with an average recovery of 84%. Stacey's statistical limits are 55-100% and an average recovery of 77.4%.

A motion was made by Jeff to leave the concentration limit as 1000-12000 ug/Kg for Fluorene on the SCM FoPT accreditation table and using the study mean and the new cd coefficients as presented on the PDF files presented by Carl dated 2-24-15. The motion was seconded by Stephen and passed unanimously.

Phenanthrene

The study concentration was 555- 7680 ug/Kg. The PDF is dated 2-24-15. The current concentration limits are 1000 – 12000 ug/Kg. It did pass criteria for fixed limits at 54.0%. It passed the Stdev R² Eval > 0.75.

There is a little improvement in the data results as plotted. The c coefficient is pretty similar to the current equation and the d is a little lower. More than one influential data point had to be taken out to eliminate convergence.

The old one had wide limits on the bottom end – the opposite. Jeff prefers the new equation with the smaller d.

Andy noted that his lab statistical limits are 64-111% with an average recovery of 88%.

A motion was made by Jeff to leave the concentration limit as 1000-12000 ug/Kg for Phenanthrene on the SCM FoPT accreditation table and using the study mean and the new cd coefficients as presented on the PDF files presented by Carl dated 2-24-15. The motion was seconded by Andy and passed unanimously.

Pyrene

The study concentration was 1180 - 7445 ug/Kg. The PDF is dated 2-24-15. The current concentration limits are 1000 – 12000 ug/Kg. It did pass criteria for fixed limits at 60.9%. It passed the Stdev R² Eval > 0.75.

There were 2 points removed and 4 points put back in just to eliminate the convergence. Carl recommends keeping the current regression equation instead of having to explain what was done. Dan does not see much difference between the previous table results and the new equation. Jeff looked back at the old data and it had similar problems to the current.

Andy noted that his lab statistical limits are 68-108% with an average recovery of 88%. Stacey's lab had statistical limits of 66-108% and an average recovery of 79.3%.

Andy asked if it is the same provider where the data is being thrown out. Jeff looked at this and it is different providers.

Pyrene was an isomer of Fluoranthene. The subcommittee voted above to keep the current values on this analyte.

A motion was made by Dan to leave the concentration limit as 1000-12000 ug/Kg for Pyrene on the SCM FoPT accreditation table and keep the present coefficients/equation. The motion was seconded by Stacey and passed unanimously.

3. Action Items

See action item table in attachments.

4. New Business

- The subcommittee should be receiving some analyte addition petitions in the next month.

5. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee has been scheduled for May 5, 2015.
(Addition: Next meeting was 5-19-15.)

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

The call was ended by FreeConference at 12:55 pm EST. (Motion: Andy Second: Stacey 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 Absent	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	daniel.dickinson@health.ny.gov
Stacey Fry Present	E.S. BABCOCK & Sons, Inc.	sfry@babcocklabs.com
Joe Pardue Present at 12:20pm	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
119	Use new PCB in Oil regression equation on historical data to confirm there is no substantial increase in failure rates.	Joe, Dan, Stephen, Jeff	2-26-15	
120				

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			