

**TNI Chemistry FoPT Subcommittee
Meeting Summary
September 1, 2015**

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on September 1, 2015 at 12:05 ET. Attendance is recorded in Attachment A. There were 6 members on the call.

The subcommittee had no meetings between the last meeting on June 16, 2015 and today's meeting.

Iлона sent the March 10th meeting minutes to the subcommittee to review the analytes worked on to confirm the decisions made during that meeting. The information for final voting results were taken from the Summary Table Carl maintains during each meeting. Joe Pardue made a motion by email to approve all the concentrations and limits determined during this meeting and Andy seconded the motion by email. The subcommittee did not begin voting by email, so a vote was taken today on the call and it passed unanimously.

Joe M. noted that the number of members present at the May 19th meeting minutes was incorrectly summarized. It should read 8 members present.

A motion was made by Andy to approve the minutes for 1/27/15, 2/24/15, 3/10/15, 3/24/15, 4/7/15, 4/21/15 and 5/19/15 as written with the addition of the voting results to the 3/10/15 minutes and the corrected member total on the 5/19/15 minutes. The motion was seconded by Dan and unanimously approved.

Carl will update the FoPT Summary table after today's meeting and distribute it to the subcommittee.

2. SCM FoPTs

Nitrobenzene (5015)

The study concentration was 1060 – 7925 ug/Kg. The PDF is dated 3-6-15. The current concentration limits are 1500 – 15000 ug/Kg. It did not pass criteria for fixed limits. It passed the Stdev R² Eval > 0.75.

The current acceptance limits are not much different than the new one. The new equation gives a lower d coefficient.

Andy noted that his lab statistical limits are 60-97% with an average recovery of 78%. Stacey does not have data for this analyte. The summary on the Excel summary has wider than Andy's.

A motion was made by Andy to keep the concentration limit at 1500-15000 ug/Kg for Nitrobenzene 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 3-6-15.

Andy asked if the group wants to revise the concentration range? Carl looked at a few of the more recently approved analytes and found that most were kept at 1500 – 15000 ug/Kg.

The motion was seconded by Dan and unanimously approved.

2,4-Dinitrotoluene

The study concentration was 270- 8157 ug/Kg. The PDF is dated 3-6-15. The current concentration limits are 1500 – 15000 ug/Kg. It did pass criteria for fixed limits at 57.0%. It passed the Stdev R^2 Eval > 0.75.

After the SOP is applied there is considerable improvement in the results. A fixed limit could be applied according to the table, but the graph does not confirm this.

Andy noted that his lab statistical limits are 72-108% with an average recovery of 90%. Stacey does not have data for this analyte. The summary on the Excel summary has wider limits than Andy's – 55-122%.

Andy noted that the new equation is a little tighter.

Carl looked ahead to 2,6-Dinitrotoluene and he expects to recommend the new equation.

A motion was made by Dan to leave the concentration limit at 1500 - 15000 ug/Kg for 2,4-Dinitrotoluene 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 3-6-15. The motion was seconded by Joe M. and passed unanimously.

2,6-Dinitrotoluene

The study concentration was 1240- 8770 ug/Kg. The PDF is dated 3-6-15. The current concentration limits are 1500 – 15000 ug/Kg. It did pass criteria for fixed limits at 54.1%. It passed the Stdev R^2 Eval > 0.75.

A point was re-inserted to prevent convergence. Carl could go either way – use the present or use the new equation.

Andy noted that his lab statistical limits are 60-117% with an average recovery of 88%. Stacey does not have data for this analyte. The summary on the Excel summary has wider limits than Andy's – 55-122%.

Andy noted the new equation is tighter and there is data at the lower concentration range. Carl added that the d coefficient is lower.

There really isn't any data at the upper end of the range. Perhaps this has something to do with solubility as Stephen noted in previous meetings.

A motion was made by Dan to leave the concentration limit at 1500-15000 ug/Kg for 2,6-Dinitrotoluene 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 3-6-15. The motion was seconded by Stephen and passed unanimously.

The next class of analytes are the phenols:

2-Chlorophenol (5800)

The study concentration was 112 - 8500 ug/Kg. The PDF is dated 3-17-15. The current concentration limits are 1500 – 15000 ug/Kg. It did pass criteria for fixed limits at 72.5%. It passed the Stdev R^2 Eval > 0.75.

The graphs are similar for the new and old regression equation. The d coefficient is lower in the new equation. The graph does not blow up at the lower end.

Andy's current lab control limits for this analyte are 60-94%. Average recovery is 77%. He noted that there is a slight increase in the upper range looking at the new equation. Stacey's lab limits are 54-100% with an average recovery of 67%. The Excel File had 42-122%.

A motion was made by Dan to leave the concentration limit at 1500-15000 ug/Kg for 2-Chlorophenol on the SCM FoPT accreditation table and using the study mean and the new cd coefficients as presented on the Carl PDF files dated 3-17-15. The motion was seconded by Stacey and passed unanimously.

2,4-Dichlorophenol

The study concentration was 275 - 7540 ug/Kg. The PDF is dated 3-17-15. The current concentration limits are 1500 – 15000 ug/Kg. It did pass criteria for fixed limits at 62.8%. It passed the Stdev R^2 Eval > 0.75.

The proportion of outliers is lower than some of the others. There were not convergence problems. There is an improvement on the d coefficient, but the graph looks similar to the previous graph. Carl recommends the new equation.

Andy's current lab control limits for this analyte are 60-102%. Average recovery is 81%. Stacey's lab limits are 57-100% with an average recovery of 70%. The Excel File had 43-120%.

A motion was made by Dan to leave the concentration limit at 1500-15000 ug/Kg for 2,4-Dichlorophenol on the SCM FoPT accreditation table and using the study mean and the new cd coefficients as presented on the Carl PDF files dated 3-17-15. The motion was seconded by Andy and passed unanimously.

2,4,6-Trichlorophenol (6840)

The study concentration was 275 - 6697 ug/Kg. The PDF is dated 3-17-15. The current concentration limits are 1500 – 15000 ug/Kg. It did pass criteria for fixed limits at 60.9%. It passed the Stdev R² Eval > 0.75.

About 1/3 of the data points are eliminated as per the SOP. The equations look similar between the old and new, but the graph at the lower end does look better with the new equation.

Andy asked about the data point below 1500 ug/Kg. He thought it might be due to low recovery. Carl could not confirm.

Andy's current lab control limits for this analyte are 61-115%. Average recovery is 88%. The Excel File had 50-120%.

A motion was made by Andy to change the concentration limit to 1000-12000 ug/Kg for 2,4,6-Trichlorophenol 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 3-17-15. The motion was seconded by Stacey and passed unanimously.

2,4,5-Trichlorophenol

The study concentration was 143- 8197 ug/Kg. The PDF is dated 3-17-15. The current concentration limits are 1500 – 15000 ug/Kg. It did pass criteria for fixed limits at 69.3%. It passed the Stdev R² Eval > 0.75.

The applied SOP also eliminates 1/3 of the data points. The new equation is an improvement over the old one and is more similar to what was approved above.

Andy's current lab control limits for this analyte are 40-119%. Average recovery is 80%. More recent data is better. Stacey does not have any data on this analyte. The Excel File had 54-125%.

A motion was made by Dan to leave the concentration limit at 1500-15000 ug/Kg for 2,4,5-Trichlorophenol 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 3-17-15. The motion was seconded by Andy and passed unanimously.

3. Action Items

See action items in Attachment B.

4. New Business

- None.

5. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee has been scheduled for September 15, 2015. The subcommittee will review its meeting schedule at the next call to determine its 2 week rotation going forward.

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

The call was ended at 1:37 pm EST. (Motion: Andy Second: Joe M. 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 Absent	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 Absent	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	Look at Jeff's comments on the 5-19-15 meeting in the next few weeks: For several of the analytes the committee set acceptance limits at +/-25% of the mean of the study. PT Providers have to verify the spiked matrix to half of that – 12.5%. This gets tougher in soil matrices. Does this make sense?	All	TBD	
121	Send update on NPW and SCM tables with the new nomenclature to PTPEC for their use on 6-18-15.	Carl	6-17-15	Complete

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 6-2-15	
10	Confirm correct naming of Bis(2-Chloroisopropyl)ether and update FoPT tables as needed.	5-19-15	NELAP AC has the revised tables to vote on today (9/1/15).