

TNI Chemistry FoPT Subcommittee
Meeting Summary
March 25, 2014

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on March 25, 2014 at 12:07 EST. Attendance is recorded in Attachment A. There were 6 members on the call.

The meeting minutes for March 11, 2014 were distributed for review. Stephen Arpie's attendance needs to be changed to Present. Dan motioned to accept the meeting minutes with the correction. Joe seconded the motion and they were unanimously approved.

2. FoPT Analyte Addition Application

The subcommittee decided to post-pone this discussion to the next meeting on April 8th.

3. SCM FoPT Table

Methylene Chloride

Everyone was requested to open the file from Carl emailed on 3/11/14.

The study concentration was 795 - 9510 ug/Kg. It did pass the SOP criteria. The current lower limit is 1000 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed the b coefficients). The PDF is dated 2-14-14. If the new regression equations are used, at 1000 ug/Kg the limits would be 68-152%. At 10,000 ug/Kg it would be 68-134%. These are tighter than the previous limits. If fixed limits are looked at, Carl recommended limits of +/-40 or 45%. Andy's limits over the last 3 years are 66-121% with a 93% recovery.

Andy had some questions about outliers and the information in the pdf was reviewed. It appeared to him that there were numerous points outside of the red lines. He would expect the limits to be wider based on this view.

Dan did not think the extra data provided any additional information compared to the first data set examined a few weeks ago. He does not have a problem with +/- 40%.

A motion was made by Andy to leave a concentration limit of 1000 - 10000 ug/Kg for Methylene Chloride on the SCM FoPT accreditation table using a fixed limit of +/- 40% across the range for the analyte relative to the assigned value. The motion was seconded by Joe Purdue and the motion passed unanimously.

Gasoline Range Organics

Discussion continued from the last meeting. The file was originally sent on 3/6/14. There is a file from Dan and a file from Carl. Carl's PDF file is dated 3-6-2014. Andy thinks the Dan file is more TPH related and prefers the other file. The 100% on the Dan graph is the Study Mean.

Carl reminded everyone that he would recommend that if the group goes with Study Mean, the current limits should be left in place. He recommends going with the new abcd coefficients in the Carl graph.

Dan commented on the NPW table for these types of compounds/analytes and most limits are abcd coefficients. Most on the Solid Waste have been fixed.

Joe does not think a fixed limit will work because of the drop off on the low end.

Dan was concerned that the c and d coefficients were different between the Dan and Carl table, but he figured out that his c and d coefficients were calculated by regressing the study SDs on the robust study means and Carl's coefficients were calculated by regressing the study SDs on the assigned values. Dan would probably like to keep what is on the current table.

A motion was made by Dan to leave the concentration and range as they are currently posted on the current table. The motion was seconded by Joe and the motion was unanimously approved. No change to the table will be made for this analyte.

4-Methyl-2-Pentanone (MIBK)

The study concentration was 4310 - 19500 ug/Kg. It did pass the SOP criteria. The current lower limit is 4000 ug/Kg and the upper limit is 20,000 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed b coefficient). The PDF is dated 3-21-14. Carl suggested a fixed limit of about 45 or 50%. He suggests this due to 2-Hexanone (+/- 50%). Andy's lab's limits are 67-122% with 95% average recovery.

Andy has been struggling with the current regression equation in their lab. He would prefer to see fixed limits.

A motion was made by Andy to leave a concentration limit of 4000 - 20000 ug/Kg for 4-Methyl-2-Pentanone on the SCM FoPT accreditation table using a fixed limit of +/- 50% across the range for the analyte relative to the assigned value. The motion was seconded by Stephen and the motion passed unanimously.

2-Butanone

The study concentration was 4330 - 15800 ug/Kg. It did pass the SOP criteria. The current lower limit is 4000 ug/Kg and the upper is 20,000 ug/Kg. It did not pass the fixed limit tests as per the SOP criteria (failed the b and d coefficients). The PDF is dated 3-21-14. Carl would recommend keeping with the current regression equation. If the new regression equations are

used, at 4000 ug/Kg the limits would be 20-180%. At 20,000 ug/Kg it would be 30-150%. Andy's statistical limits are 51-140% and his lab's limits 43-148%.

A motion was made by Dan to leave the current concentration range and limits in place for 2-Butanone. The motion was seconded by Joe and the motion was unanimously approved. No change to the table will be made for this analyte.

Acetone

The study concentration was 5770 - 15600 ug/Kg. It did pass all SOP criteria. The current lower limit is 4000 ug/Kg. It did not pass all the fixed limit tests as per the SOP criteria (failed the b coefficient). The PDF is dated 3-21-14. Andy's statistical limits are 40-158%.

A motion was made by Dan to leave the current concentration range and limits in place for Acetone. The motion was seconded by Stephen and the motion passed unanimously. No change made.

4. Action Items

See action item table in attachments.

5. New Business

- None.

6. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee has been scheduled for April 8th. Carl and Dan should have more data available for review.

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

The call was ended at 1:30pm EST. Motion - Stephen 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 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 Absent	E.S. BABCOCK & Sons, Inc.	sfry@babcocklabs.com
Joe Pardue Present (Left at 1pm)	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
104	Re-evaluate Methylene Chloride with additional data Jeff will provide.	Carl	2/25/14	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	
10			