

**TNI Chemistry FoPT Subcommittee
Meeting Summary
September 21, 2010**

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the Chemistry FoPT Subcommittee to order on September 21, 2010 at 12:05 pm EST. Attendance is recorded in Attachment A. There were 7 members on the call today.

The minutes from the September 14th meeting were reviewed. A motion was made by Stephen to accept the minutes. The motion was seconded by Stacey and unanimously approved. The minutes will be posted to the TNI website.

2. Update on DW Table

Alkalinity

Passes all criteria except Stdev R^2 Eval > 0.75 . The current limit is 25 – 200 mg/L. Jeff noted that there is no acceptance limit on the table that is tighter than +/- 10% and that +/- 10% would work with this analyte. Dan D would prefer to keep the present regression equation, but others would prefer a fixed limit of +/- 10%.

The group looked at the current footnotes associated with this analyte. If the regression equation is tighter, the footnotes limit how tight they can be (+/- 10%).

A motion was made by Chris to update the limits for Alkalinity on the DW FoPT table to fixed $\pm 10\%$ of the assigned value and a concentration range of 25 - 200 mg/L. The motion was seconded by Dan Tholan. The vote: For - 6 Against: 0 Abstain: 1 (Dan D.) The motion passed.

Asbestos

The MCL is 7 million fibers/L. The current limits are now 1.5 to 20 mf/L. The study range was 2-13 mf/L. There were 8 studies, each with 16-26 participants. Chris has 2 more studies with more than 20 participants that he can forward to bring this up to 10 studies. Typical recovery is 70%.

Dan T. commented: that the group could also consider putting limits of +/- the consensus standard deviation (+/- 2 standard deviations). Dan D.: Use consensus statistics for Asbestos with +/- 2 study sd for acceptance limits. Neither the current LRE nor the proposed one match the participant data (at least for NY purposes), although the proposed one is closer.

Jeff will add Chris' data and resubmit the information to the group to look at next week.

Cyanide

The current range is 0.1 - 0.5 mg/L. The current study data is 0.12 to about 0.5 mg/L. It passes criteria except for $\text{Stdev } R^2 \text{ Eval} > 0.75$. There is a fixed limit from the CFR: Fixed $\pm 25\%$ 40 CFR 141.2. The MCL is 0.2 mg/L. Carl would like to extend the range from 0.1 to 1.0 mg/L. Stacey's lab has to dilute anything over 0.2 mg/L. Her lab would also be capable of lowering the limit to 0.05 - 0.5 mg/L.

A motion was made by Jeff to update the limits for Cyanide on the DW FoPT table to fixed $\pm 25\%$ of the assigned value (as per 40 CFR 141.2) and a concentration range of 0.05 – 0.5 mg/L. The motion was seconded by Stacey. It was unanimously approved.

pH

Historically, there have been problems above a pH of 8. Jeff sent two PDFs for this analyte. The problem above a pH of 8 is not seen in this data. Currently the range is 5 – 10 pH units with a limit of ± 0.2 pH units.

A motion was made by Stacey to leave the limits for pH on the DW FoPT table “as is”. The motion was seconded by Chris and unanimously approved.

Residual Free Chlorine and Total Residual Chlorine

The current range for these is 0.5 – 3.0 mg/L and the study range was 0.25 – 2.8 mg/L. Neither passed the $\text{Stdev } R^2 \text{ Eval} > 0.75$. The subcommittee discussed the chemistry behind these analytes and how the PTs are prepared. Carl prefers the current limits. The MCL is 4.0 mg/L.

A motion was made by Jeff to leave the limits for Residual Free Chlorine and Total Residual Chlorine on the DW FoPT table “as is”. The motion was seconded by Chris and unanimously approved.

Specific Conductance

The current limit is 250 – 2500 $\mu\text{mhos/cm}$ and the study range was 278- 2100 $\mu\text{mhos/cm}$. It passed all criteria. Carl suggested 100 – 1000 $\mu\text{mhos/cm}$ and Stacey agreed this would work. She also commented that $\pm 10\%$ limits would be fine too.

Dan D. expressed concern that the data shows a tighter limit can be set, but the subcommittee is looking at $\pm 10\%$ because of the footnotes.

A motion was made by Chris to update the limits for Specific Conductance on the DW FoPT table to fixed $\pm 10\%$ of the assigned value and a concentration range of 100 – 1000

µmhos/cm. The motion was seconded by Stephen. Vote: For - 6 Against – 1 (Jeff) Abstain – 0. The motion passes.

Total Filterable Residue (Total Dissolved Solids)

The study range was 209 – 548 mg/L. The Stdev R² was terrible. The MCL is 500 mg/L. The subcommittee closely examined the graphs Jeff sent. The chemistry was reviewed and the group will consider this PT over the week and discuss on the next conference call.

Total Organic Carbon

The current range is 1.2 – 4.9 mg/L. The study concentration range is 1.4 – 4.7 mg/L. It did not pass the Stdev R² criteria.

Discussion on this analyte will continue on the next conference call.

3. New Items

None.

4. Action Items

- Updates are included in the table.

5. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee will be September 28, 2010, at 12PM EST.

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

The meeting was adjourned at 1:32 pm EST (Motion: Stephen. Second: Chris Unanimously approved.)

Attachment A

Participants TNI Chemistry FoPT Subcommittee

Members	Affiliation	Contact Information
Carl Kircher, Co-Chair Present	Florida DOH	904-791-1574 carl_kircher@doh.state.fl.us
Chris Rucinski Present	RT Corp	crucinski@rt-corp.com
Amy Doupe Absent	Lancaster Laboratories, Inc.	717-656-2300 x1812 aldoupe@lancasterlabs.com
Jeff Lowry Present	ERA	303-431-8454 jlowry@eraqc.com
Chuck Wibby Absent	Wibby Environmental	303-940 -0033 cwibby@wibby.com
Eric Smith Absent	TestAmerica	615-726-0177 x1238 eric.smith@testamericainc.com
Dan Tholen Present	A2LA	231-929-1721 Tholen.dan@gmail.com
Stephen Arpie Present	Absolute Standards, Inc.	203-281-2917 stephenarpie@mac.com
Dan Dickinson Present	New York, DOH	518-485-5570 dmd15@health.state.ny.us
Stacey Fry Present	E.S. BABCOCK & Sons, Inc.	951-653-3351 x238 sfry@babcocklabs.com
Ilona Taunton, Program Administrator Present	TNI	828-712-9242 tauntoni@msn.com

Attachment B

Action Items – Chemistry FoPT Subcommittee

	Action Item	Who	Expected Completion	Actual Completion
13.	Prepare letter to ABs to find out their needs on analytes that may be under consideration for deletion. <i>(3/24/09 – It was determined that these tables are used by more than just ABs. This needs to be reconsidered.)</i>	TBD	TBD	
46	Re-evaluate experimental volatile halocarbons for fixed limits when the rest of the volatile halocarbons are evaluated for an NPW table update.	All	On-going	
70	Distribute final set of DW analytes.	Jeff	9/21/10	Complete
71	Chris will send additional data for Asbestos. Jeff will incorporate this information into his calculations and supply this to the subcommittee.	Chris Jeff	9/28/10	

Attachment C

Backburner / Reminders – Chemistry FoPT Subcommittee

	Item	Meeting Reference	Comments
1	Review summary data to see if it supports a change in the acceptance criteria for DW analytes (For example, VOA, 30% instead of 20%). If data is supportive, Jeff Lowry will approach ELAB.	10-30-08	<p>3/10/09 - Jeff has approached ELAB. They would be happy to put it in a work group – and pass it along with a letter to EPA. We need to provide them with the data.</p> <p>2/23/10: Jeff will forward the VOA data. Jeff noted that the data supports the tighter limits. He will provide the information to ELAB and they will decide whether to approach EPA.</p> <p>5/4: Jeff is working with ELAB on this now.</p> <p>7/19: The workgroup is continuing to work on this and should discuss this on the September 2010 call.</p> <p>9/21: No work has been done in ELAB – so this has been delayed a month.</p>
3	Consider changing the lower limit for Vanadium on WP to 50 ug/L.	6-30-09	
4	Consider nomenclature differences between the analyte codes and the FoPT tables.	2-23-10	
6	From PT Board: South Carolina requested that low level EDB and DBCP (8011) be added to the NPW table.	4-15-10 PT Board Meeting	They were added to the solids table where they were experimental. They were not experimental on the NPW table.