# TNI Chemistry FoPT Subcommittee Meeting Summary December 22, 2009

## 1. Roll call and Meeting Minutes:

Co-Chair Carl Kircher called the Chemistry FoPT Subcommittee to order on December 22, 2009, at 12:07pm EST. Attendance is recorded in Attachment A.

The minutes from the December 8, 2009 and December 15, 2009 meeting will be distributed to the subcommittee via e-mail for approval.

## 2. DW FoPT Table

Everyone needs to review the DW FoPT Table that Jeff distributed via e-mail. Comments may be sent by e-mail to the entire subcommittee. The review covers all the changes that are noted in color. Everyone should plan to vote on the table at the next meeting on January 5, 2010.

## 3. PT Acceptance Limits

## NPW Analytes

#### **Turbidity**

Eric spoke with his Technical Director at TestAmerica and commented that 1 NTU is not reflective of the types of waste water samples that are actually received. The DW limit is 0.5 NTU. His laboratory gets samples higher than 20 NTU. He suggested using a lower limit of 2 NTU and an upper limit of 30 NTU. With the regression equation, at 30 NTU it would be 85-116%. At 2 NTU it calculates to 61-136% and at 5 NTU it calculates to 76-123%. Jeff is concerned about raising the limit at the upper end because all the data we have looked at is around 20 NTU. The new regression equation is wider than the previous one. A design footnote is needed regarding preparation material (formazin).

Eric made a motion for a concentration range of 2-30 NTU using the newly derived regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09 with the design footnote regarding formazin. The motion was seconded by Jim. There was no further discussion. The motion was approved unanimously.

## TOX

After speaking with his Technical Director, Eric noted that he is in agreement with Carl's original suggestion to move TOX over with the current experimental table (Effective 7-1-07) limits.

Eric made a motion to move TOX to the accreditation table at the current concentration limits of 300-1500 ug/L and the regression equation as it currently is listed in the experimental table (effective July 1, 2007.) The motion was seconded by Stacie and unanimously approved.

Summary	Concentration	Limit
Total Organic Halides (TOX)	300-1500 ug/L	Previous regression equation as noted in the experimental tables July 1, 2007.
	2-30 NTU	Proposed regression equation recommended on the table sent by Jeff on 11-23-09.
Turbidity		(Include design footnote regarding formazin.)

## Low Level PAH

## Acenaphthene, Acenaphthylene, Flourene, Naphthalene

Concerns were expressed about which method is being used to run the PT. Eric and Stacie reviewed information about their lab QC limits.

Carl suggested 2-20 ug/L with the newly developed regression equations. This supports a PTRL just below 1. All four analytes have about an 80% recovery (+/-40%).

Chuck made a motion to move Acenaphthene, Acenaphthylene, Flourene, and Naphthalene to the accreditation table with concentration ranges of 2-20 ug/L and using the developed regression equations (see table sent by Jeff on 11-23-09). Jeff seconded the motion and it was unanimously approved.

#### Anthracene and Phenanthrene

Jeff reviewed the data with the subcommittee. He recommended 0.5 to 5.0 ug/L to harmonize the concentration ranges.

A motion was made by Eric to change the concentration limits for Anthracene to 0.5 - 5.0 ug/L using the current regression equation on the July 1, 2007 experimental table. The motion was seconded by Chuck and unanimously approved.

A motion was made by Eric to change the concentration limits for Phenanthrene to 0.5 - 5.0 ug/L using the newly derived regression equation as presented in the table distributed by Jeff Lowry on 11-23-09. The motion was seconded by Jeff and unanimously approved.

#### Benzo(a)anthracene and Chrysene

Chuck expressed concern that we don't have any data to support an upper range of 5 ug/L. He is concerned that we will see higher failure rates. Chuck felt you could move to 0.5 - 5.0 on the Chrysene, but should stick with the current on the Benzo(a)anthracene. The new regression equation criteria should be used on both. Jeff suggested 3.0 ug/L on the Benzo (a)anthracene.

Jeff made a motion for a concentration range of 0.5 - 3.0 ug/L for Benzo(a)anthracene with the newly derived regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09. The motion was seconded by Chuck and the motion passed unanimously.

A motion was made by Dan Dickenson for a concentration range of 0.5 - 5.0 ug/L for Chrysene with the newly derived regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09. The motion was seconded by Chuck and the motion passed unanimously.

#### Benzo(a)pyrene

The newly developed regression equation shows 43-116%.

A motion was made by Eric for a concentration range of 0.5 - 5.0 ug/L using the newly derived regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09. The motion was seconded by Jeff and unanimously approved.

#### Benzo(b)fluoranthene and Benzo(k)fluoranthene

The newly derived regression equation makes the limits wider. They both pass all criteria.

A motion was made by Eric to accept Benzo(b)fluoranthene and Benzo(k)fluoranthene with a concentration range of 0.5 to 5.0 ug/L using the newly derived regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09. The motion was seconded by Chuck. No further discussion. The motion passed unanimously.

#### Fluoranthene and Pyrene

They both pass all criteria.

A motion was made by Eric to accept Fluoranthene and Pyrene with concentration ranges of 0.5 to 5.0 ug/L using the newly derived regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09. The motion was seconded by Chuck. No further discussion. The motion passed unanimously.

## Benzo(g,h,i)perylene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Discussion centered around a concentration range of 0.5 - 5 ug/L for all three. Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene passed all criteria. Concerns were raised about using the new regression equation for Dibenz(a,h)anthracene.

A motion was made by Eric to accept Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene with concentration ranges of 0.5 to 5.0 ug/L using the newly derived regression equations with the coefficients presented in the table distributed by Jeff on 11/23/09. The motion was seconded by Jeff. No further discussion. The motion passed unanimously.

A motion was made by Jeff to accept Dibenz(a,h) anthracene with a concentration range of 0.5 to 5.0 ug/L using the current regression equation as noted on the experimental table effective 7/1/07. The motion was seconded by Stacie. No further discussion. The motion passed unanimously.

Analyte	FoPT Category	Concentration Range	Acceptance Limits
			Newly derived regression equation with the coefficients presented in the table distributed by Jeff on
Acenaphthene	Low Level PAHs	2 - 20 ug/L	11/23/09.
			Newly derived regression equation with the coefficients presented in the table distributed by Jeff on
Acenaphthylene	Low Level PAHs	2 - 20 ug/L	11/23/09.

Summary –

Analyta	EoDT Cotogony	Concentration	Acceptance
Analyte	FOFT Callegory	Kange	Keen current
			regression
			equation as
			noted on
			experimental
Anthracene		$0.5 - 5.0  \mu a/l$	tables effective
Antinacene		0.0 – 0.0 ug/L	Newly derived
			regression
			equation with the
			coefficients
			presented in the
			by leff on
Benzo(a)anthracene	Low Level PAHs	0.5 – 3.0 ug/L	11/23/09.
		,,	Newly derived
			regression
			equation with the
			coefficients
			presented in the
			by Jeff on
Benzo(a)pyrene	Low Level PAHs	0.5 – 5.0 ug/L	11/23/09.
		2	Newly derived
			regression
			equation with the
			presented in the
			table distributed
			by Jeff on
Benzo(b)fluoranthene	Low Level PAHs	0.5 – 5.0 ug/L	11/23/09.
			Newly derived
			regression
			coefficients
			presented in the
			table distributed
			by Jeff on
Benzo(g,h,i)perylene	Low Level PAHs	0.5 - 5.0 ug/L	11/23/09.
			regression
			equation with the
			coefficients
			presented in the
			table distributed
Popzo(k)fluorenthene		0.5 5.0	by Jett on
Denzorkinuoranthene		0.3 – 5.0 UQ/L	1 11/23/09.

Analyta		Concentration	Acceptance
Analyte	FOPT Category	Kange	Limits Newly derived
Chrysene	Low Level PAHs	0.5 - 5.0 ug/L	regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09.
			Keep current
Dibenz(a b)anthracene		0.5 <b>-</b> 5.0 µg/l	regression equation as noted on experimental tables effective
	LOW LEVEL PAILS	0.3 – 3.0 ug/L	Newly derived
Fluoranthene	Low Level PAHs	0.5 – 5.0 ug/L	regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09.
			Newly derived
Fluorene	Low Level PAHs	2 - 20 ug/l	regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09.
Indeno(1,2,3-cd)pyrene	Low Level PAHs	0.5 – 5.0 ua/L	Newly derived regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09.
		<del></del>	Newly derived
Naphthalene	Low Level PAHs	2 - 20 uo/L	regression equation with the coefficients presented in the table distributed by Jeff on 11/23/09.

Analyte	FoPT Category	Concentration Range	Acceptance Limits
			Newly derived
			equation with the
			coefficients
			presented in the
			by Jeff on
Phenanthrene	Low Level PAHs	0.5 – 5.0 ug/L	11/23/09.
			Newly derived
			regression
			equation with the
			presented in the
			table distributed
			by Jeff on
Pyrene	Low Level PAHs	0.5 – 5.0 ug/L	11/23/09.

## 3. New Items

None.

## 4. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee will be January 5, 2010, at 12PM EST.

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

The meeting ended at 1:33 pm EST. (Motion - Dan, Second- Eric. Unanimously approved.)

## Attachment A

## Participants TNI Chemistry FoPT Subcommittee

Members	Affiliation	Contact Information
Carl Kircher,	Florida DOH	904-791-1574
Co-Chair		carl_kircher@doh.state.fl.us
Present		
Brian Boling,	Oregon DEQ	
Co-Chai		Boling.Brian@deq.state.or.us
Absent		
Amy Doupe	Lancaster Laboratories,	717-656-2300 x1812
	Inc.	aldoupe@lancasterlabs.com
Present		
Jeff Lowry	ERA	303-431-8454
Present		jlowry@eraqc.com
Chuck Wibby	Wibby Environmental	303-940 -0033
		cwibby@wibby.com
Present		
Eric Smith	TestAmerica	615-726-0177 x1238
		eric.smith@testamericainc.com
Present		
Dan Tholen	A2LA	231-929-1721
••		Tholen.dan@gmail.com
Absent		000 004 0047
Stephen Arpie	Absolute Standards, Inc.	203-281-2917
<b>A b c c c c d</b>		stepnenarpie@mac.com
Absent		540 405 5570
Dan Dickinson	New York, DOH	518-485-5570
Present		unu 15@nealth.state.hy.us
Stacev Frv	E.S. BABCOCK & Sons	951-653-3351 x238
Clacey Try		sfrv@babcocklabs.com
Present		Shy Shaboookiabo.com
Jim		860-947-2121
		mouseir@nu.com
Present		
Ilona Taunton.	TNI	828-712-9242
Program Administrator		tauntoni@msn.com
Present		

# Attachment B

# Action Items – Chemistry FoPT Subcommittee

			Expected	Actual
	Action Item	Who	Completion	Completion
13.	Prepare letter to ABs to find out their needs on analytes that may be under consideration for deletion. (3/24/09 – It was determined that these tables are used by more than just ABs. This needs to be reconsidered.)	TBD	TBD	
22.	Prepare for upcoming meetings by reviewing evaluation files that Jeff will send every 2 weeks.	All	Ongoing	
40	Start table for compounds that need to removed.	Jeff	12/8/09	Complete
41	Get updated DW table from Jeff to approve at next meeting.	Carl	12/15/09	Complete
43	Prepare cover letter to go to PT Board with recommendation of the DW FoPT Table. Include discussion on Chloramben.	Carl	1/4/10	
44	Prepare DRAFT presentation for PT Caucus and distribute to subcommittee for comment.	Carl	1/5/09	
45	Distribute meeting minutes for 12/8 and 12/15 for e-mail approval.	Ilona	12/23/09	Complete

## Attachment C

	Dackburner / Kenninders Chennistry For F 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	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.		
3	Consider changing the lower limit for Vanadium on WP to 50 ug/L.	6-30-09			
4					
5					

# **Backburner / Reminders – Chemistry FoPT Subcommittee**