Field Activities Committee (FAC) Meeting Summary

February 4, 2015

1. Roll call and Minutes:

Chair, Justin Brown called the FAC meeting to order on February 4, 2015 at 8:00 AM Eastern. Attendance is recorded in Attachment A – there were 6 members present.

The January 30, 2014 minutes were reviewed and will be sent out by email for approval. *(Addition: They were approved by email for posting.)*

A copy of the PPT slides used during the meeting can be found in Attachment G.

2. Subcommittees

Sample Container Subcommittee

The FAC was contacted in regards to EPA Publication #9240.0-05A – "Specifications and Guidance for Contaminant Free Sample Containers". It is an outdated documentand FAC was asked to consider looking at it and revising it. It was last revised in 1992.

The TNI Board felt the committee needed to investigate it to decide if it was appropriate for us to handle or whether TNI should be addressing it at all.

The FAC has been trying to form a subcommittee to look at this, but more members are needed. They need people in the lab and field community. A number of bottle manufacturers have volunteered to help.

One of the first initiatives will be working with EPA to understand what they need.

This will be further discussed at the summer meeting in Chicago.

Discussion:

EPA asked that TNI do it. They did not feel they had the resources to do it.

Marlene asked what programs this document addresses. Marlene thought it had something to do with CLP and is asking for relevance. Marlene suggested that it may be embedded in other statements of work and we should check to make sure it is really needed. She thinks it should be across all programs if this committee is going to do work on it.

Mobile Labs

This is a major issue that this committee is working on. It is a NEFAP EC Subcommittee, but is relevant to what FAC does. They are looking for agreement between NEFAP and NELAP on how mobile labs are accredited. This will be further discussed during the NEFAP EC meeting after the break.

FSMO Tools

There were concerns raised by FSMOs about how to get ready for NEFAP. There are 3 new documents that have just been approved for posting:

- 1. The NEFAP Accreditation Process
- 2. TNI Subcommittee Priority Elements of Management Plan (MP) for Field Sampling Measurement Organizations (FSMOs)
- 3. Summary of TNI NEFAP FSMO Program Changes From the 2007 Standard to the 2014 Standard

These documents will be posted within the week.

Doug Leonard: ABs try to put similar documents out too. He cautioned that ABs sometimes run into problems when people read these documents and think they are the requirements. There are often issues with using the terms "shall" and "should".

Mike Sheppherd: ABs also have some of their own program documents and asked if there were any conflicts. Doug L. did not think so.

3. 2014 Standard

Implementation date of March 15, 2016.

The next step is application for ANSI recognition. The committee will be working on this today. Goal will be to complete the application before the end of 2015. We need to submit two applications – one for each volume.

4. ANSI Recognition

Volume I

Create new ANS

Project Need:

- Needs to address FEM
- Establish Standard for Field Sampling and Measurement Organizations (FSMO)

Project Need

- FSMO, ABs, Data Users, Regulatory Agencies.

Scope Summary

- Will be taken from the intro to the standard.

Volume II

Project Intent

- Recognition of Accreditation Bodies (ABs) to perform assessments on Field Sampling and Measurement Organizations (FSMOs).

Stakeholders

- Accreditation bodies, Regulatory Community, recognition cooperations

Scope Summary

- Will be taken from the intro to the standard.

Justin will submit them to Ken Jackson today. Ken will walk us through the next step after this is completed.

Ilona will get a schedule from Ken Jackson and share it with the committee. She will get a basic idea of application cost.

5. Scope Of Accreditation

Application Discussion:

Justin will get the application to the committee for review within the next week. The next meeting will be actually working on the guidance document.

This is an area that caused quite a bit of discussion. Each FSMO may do something vastly different than another FSMO, so this has caused a bit of confusion.

The committee will be filling out the application and submitting it to the Policy Committee. (Addition: The application was submitted to policy 2/12/15.)

The information used for discussion and preparation of the application is included in Attachment D.

Kim commented that the numbering system needs to be improved when the information is finalized.

The standard does not have a list of matrices. This is currently determined by the ABs and FSMO. It is important to note these are examples and not an all inclusive list. If it is

too static, the FSMO cannot apply it to their work. Instead - put a definition of the matrix and then list examples. Kim Watson will work on a list of example matrices and get this to the committee (by 2/15/15).

Shannon asked if the committee should check with LAMS to make sure what we are creating is doable. Marlene noted we cannot use LAMS. Something different will be developed. This was discussed a number of months ago.

Why can't FSMOs be listed on the TNI website? They would need to send a copy of their accreditation. This is not an FAC issue. The following recommendation will be sent to the NEFAP EC:

- Post FSMOs on the website. It would be helpful if their Scope could be included or linked.
- Find ways to get the list of FSMOs to pull up easily on search engines like Google.

There was discussion of the term "technology". It is not defined in the Field Standard. Doug would prefer a term such as "technique".

Connie Thoma from EPA shared a number of links to get to very helpful information on the EPA websites (see Attachment F).

EPAs Definition of Technology in Document 5360.1 A2 - 5/5/2000:

d. environmental technology - an all-inclusive term used to describe pollution control devices and systems, waste treatment processes and storage facilities, and site remediation technologies and their components that may be utilized to remove pollutants or contaminants from or prevent them from entering the environment. Examples include wet scrubbers (air), soil washing (soil), granulated activated carbon unit (water), and filtration (air, water). Usually, this term applies to hardware-based systems; however, it also applies to methods or techniques used for pollution prevention, pollutant reduction, or containment of contamination to prevent further movement of the contaminants, such as capping, solidification or vitrification, and biological treatment.

We need to try to be consistent with how things are termed in EPA in Standards or other documents we produce.

We need to define technology to make it clear what is being looked for. It would not be appropriate to change the term now to something like "technique".

Shannon asked if FSMOs could just list their SOP? There are issues doing this because someone may have 50 grab SOPs. Harry noted that it needs to be in general categories to make it manageable.

Given time constraints, the committee tabled the conversation on the actual guidance document and started work on the actual application.

Justin noted the suggestions and will get the application to the committee for review within the next week. Based on the comments he receives, he will complete the application and forward it to the Policy Committee. Work on the Scope Guidance document will continue at the next meeting.

6. New Business

• None.

7. Action Items

The table in Attachment C summarizes all action items.

8. Next Meeting

The next meeting will be determined by email using Doodle. It should be in March.

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

The meeting was adjourned at 10:00 am EST. Shannnon motioned to adjourn. Kevin seconded it and it was unanimously approved.

Attachment A Participants TNI Field Activities Committee

Members	Affiliation	Balance	Contact Information		
Justin B. Brown (Chair) Present	EMT	FSMO	(847) 324 3350	jbrown@emt.com	
Troy Burrows Absent	STAC (Golden Specialty)	AB	(800) 429-8445	tburrows@goldenspecialty.com	
Maggie Cangro Absent	Catalyst Air Management, Inc.	FSMO	(813)994-5880	maggie.cangro@catalystair.com	
Yoon Cha Absent	Eurofins Eaton Analytical	Other	(626)386-1188	YoonCha@eurofinsUS.com	
Craig Forbes Present	HRSD-Pretreatment & Pollution Prevention Division	FSMO	(757)460-7043	CFORBES@HRSD.COM	
Kevin Holbrooks Present	Jacksonville Electric Authority	Other		holbke@jea.com	
Tom Martins Absent	NYCEP	FSMO	(914) 397-7935	martinst@dep.nyc.gov	
Juan Ramirez Absent	Seminole Electric Cooperative, Inc.	Other	(813) 739-1219	jramirez@seminole-electric.com	
Mike Shepherd Present	L-A-B (Shepherd Technical Services)	AB	512-970-6789	mike@sheptechserv.com	
Lauren Smith Absent	A2LA	AB	(301)644 3216	lsmith@a2la.org	
Angela Zevely Absent	LG&E and KU Energy, LLC	Other	(502) 347-4196	angela.zevely@lge-ku.com	
Harry O'Neill Present	Beacon Environmental Services, Inc.	FSMO	(410) 838-8780 Ext. 113	Harry.ONeill@Beacon-usa.com	
Shannon Swantek Present	Oregon Public Health Division	AB	(503) 693-4130	shannon.swantek@state.or.us	
Ilona Taunton (Program Administrator) Present	The NELAC Institute		(828)712-9242	<u>llona.taunton@nelac-</u> institute.org	

Attachment B

NEFAP ADVOCACY SCHEDULE

Organization	Event	Type of Presentation	Event Dates	Presenter
Past Events				
Midwest Groundwater Association	2009 Annual Midwest Groundwater Conference	Poster	October 15, 2009	Justin Brown
National Groundwater Association	2010 National Groundwater Summit	Speaking	April 13, 2010	Justin Brown
US Department of Defense	2010 EDQW	Speaking	April 15, 2010	Justin Brown
AEHS Foundation, Inc	26th Annual International Conference on Soils, Sediments, Water, and Energy	Poster	October 18, 2010	Declined Invitation (nobody to present)
US Environmental Protection Agency	20 th Annual Quality Assurance Conference	Speaking	October 20, 2010	Jo Ann Boyd
Pacific Northwest Clean Water Association	2010 Annual Conference	Speaking	October 26, 2010	Keith Champman
NWEC	2010 Northwest Environmental Conference	Speaking	December 6, 2010	Scott Hoatson
Midwest Water Analysts Association	2011 Winter Expo	Speaking	January 28, 2011	Justin Brown
Battelle	Battelle for the International Conference on Remediation of Contaminated Sediments	Poster	February 7, 2011	Declined Invitation (nobody to present)
SSAAP	Stationary Source Sampling and Analysis for Air Pollutants XXXV Conference	Speaking	March 20, 2011	Scott Evans
American Water Works Association	2011 Watercon	Speaking	March 20, 2011	Justin Brown
US Department of Defense	2011 EDQW	Speaking	March 28, 2011	Justin Brown
ASQ	2011 ASQ Energy and Environment Conference	Speaking		Randy Querry
US Environmental Protection Agency	2011 Annual EPA Quality Assurance Conference	Speaking	October 18, 2011	Jo Ann Boyd
Midwest Environmental Laboratory Stakeholders	2011 MELSS Annual Meeting	Speaking	December 2, 2011	Justin Brown
	2012 Environmental Regulatory and Compliance Conference	Speaking		Calista Daigle
US Environmental Protection Agency	2012 On-site testing conference	Speaking	January 23, 2012	Lauren Smith
US Department of Defense	2012 EDQW	Speaking	March 2012	Justin Brown/ Marlene Moore

Organization	Event	Type of Presentation	Event Dates	Presenter
Stack Testing Accreditation Council	2012 Source Evaluation Society Annual Conference	Speaking	March 7, 2012	Maggie Cangro
Texas Commission for Environmental Quality	2012 TCEQ Environmental Trade Fair and Conference	Speaking	May 1, 2012	Mike Shepard
US Environmental Protection Agency	2012 Annual EPA Quality Assurance Conference	Speaking	October 15, 2012	Jo Ann Boyd
PIANC USA/ COPRI ASCE	2012 Dredging PIANC/ COPRI ASCE	Speaking	October 22, 2012	Declined Invitation (nobody to present)
Environmental Protection Agency / Dept. of Homeland Security	2013 On-site Analysis Conference	Speaking	January 23, 2013	Lauren Smith
Louisiana Water Environment Association	21st Annual Technical Exhibition and Conference Louisiana Water Environment Association Conference	Speaking	April 18, 2013	Tracy Szerszen
Oregon Environmental Laboratory Association	OELA/ORELAP Annual Environmental Lab Workshop	Speaking	May 16, 2013	Kim Watson
Florida Society of Environmental Analysts	2013 FSEA Annual Spring Meeting and Technical Session	Speaking/ Technical Seminar	May 22, 2013	John Moorman
State Assessor Forum	Conference Call	Speaking / Q&A	July 22, 2013	Justin Brown Marlene Moore
US Army Corp of Engineers	Regional Workshop	Speaking	September 11 th , 2013	John Moorman
US Environmental Protection Agency	2013 Annual EPA Quality Assurance Conference Conference	Speaking	October 14, 2013	Jo Ann Boyd
Florida Society of Environmental Analysts	Field Quality Systems Workshop	Speaking	October 23 rd , 2013	John Moorman
Illinois Association of Environmental Testing Labs	Midwest Environmental Stakeholder Summit	Speaking	December 6 th , 2013	Jerry Parr
TWUA	??	Speaking	March 10 th , 2015	JoAnn Boyd
US Environmental Protection Agency	2014 Annual EPA Quality Assurance Conference	Speaking	October 24, 2014	Jo Ann Boyd
Upcoming Events				
TCEQ	TCQ Trade Fair	Speaking	May 5, 2015	Marlene Moore
DoD	DoD Conference	Speaking	April 27, 2015	Marlene Moore
NEMC/TNI	NEMC Conference – Full Day Training: Sample Collection Design and Accreditation – Is Your Sample Data Defensibile?	Speaking	July, 17, 2015	Marlene Moore

Organization	Event	Type of Presentation	Event Dates	Presenter

Attachment C

Action Items – FAC

	Action Item	Who	Expected Completion	Actual Completion
47	Update Presentation Summary and distribute before meetings. (Prepare table of speaking engagements. This will be added to minutes and website. Follow-up with Scott Hoatson, Jan and other committee members to find out about other speaking engagements to add to the summary table being prepared.)	JoAnn Justin	Each Meeting	Ongoing 1-15-13: Ilona meeting with William to set this up to add to website. 4/20/13: Ilona requested status update from William.
61	Update presentation and distribute for review. (General presentation people can use when attending conferences.)	Justin JoAnn	March 5, 2012 Needs to be updated by 3/31/13.	Presentation was done, but not reviewed yet. Probably needs more updating at this point. 2/20: Update from John. He is adding some info from the white paper and will then get back to Justin and Marlene. Justin will have it back from John first week of March. Need to work on speaker notes. 5/23/13: John sending FL presentation. 7/29/13: Presentation not received.

			Expected	Actual
	Action Item	Who	Completion	Completion
				10/23/14: Justin will distribute to Ilona for finalization and then action item will be moved to Back Burner to remember to periodically
105	Analyze container issue and present initial plan to committee.	Justin, Kevin, Terrance, Scott	6/30/14	update. 10/23: Update – Kevin, Justin and Mike met in DC to talk and decided they need to reach out to more peoople. Justin is following up on people to include.
113	Contact Larry about membership status.	Justin	2/1/15	Complete
114	Submit Larry's membership to the TNI Board.	Ilona	2/15/15	Complete
115	Finish ANSI notification and send to Ken.	Justin	2/4/15	
116	Prepare list of example matrices.	Kim Watson	2/15/15	
117	Send DRAFT Guidance Application to committee for review.	Justin	2/9/15	
118	Get a schedule of the ANSI process from Ken.	Ilona	3/5/15	

Attachment D

	Item	Meeting Reference	Comments
2	Update charter in October 2015	2/2/11	
3			
4			

Backburner / Reminders – FAC

Attachment E – Guidance Application and Information for Consideration

PROPOSAL FOR DEVELOPING GUIDANCE

Committee Making Request: NEFAP Executive Committee

Proposed Title for Guidance:

Guidance on Scope of Accreditation for FSMOs under the NEFAP Standard for ABs

Form of Proposed Guidance [e.g. White Paper, Template, Manual, Position Statement]

Guidance Document with position statement or white paper.?

Purpose of Proposed Guidance:

Unify and Standardize language on Scope of Accreditations for Third party ABs under the NEFAP standard.

Does the Proposed Guidance Interprets or Helps Implement of Comply with a TNI Standard Requirement?

Yes

Summary of Proposed Guidance Content:

See attached

Justification for Proposed Guidance:

Clarity of Scopes of Accreditation under NEFAP by technology, matrix

Delivery Mode of Proposed Guidance:

??

Reviewers of Proposed Guidance

FAC

FOR POLICY COMMITTEE USE ONLY

Review and Recommendations:

Guidance on suggested content for the scope of accreditation

Organizations (See TNI FSMO Standard for Definition)

- A. Multiple Facility Organization
- B. Single Facility Organization

General Sample Planning

- A. Quality Systems Manual –Policies versus practices
- B. Regulatory Requirements
- C. UFP QAPPs, Brownfield QAPPs, SAPs,

General Categories - Media

- I. Air
- II. Solids
- III. Groundwater
- IV. Surface water
- V. porewater
- VI. Biological
- VII. Chemical Wastes
- VIII. Biota
- IX. Other (not otherwise categorized)

General Categories - Field Sampling Technologies

- a. Geoprobe
- b. Grab
- c. Composite
- d. Collection via a device specified by ASTM method or other SOPs
- e. lysimeters
- f. Regulatory
- g. Air passive
- h. Air ambient
- i. Air stack

General Categories - Field Measurement Technologies

- a. X-Ray Fluorescence
- b. Immunoassay
- c. Gas Chromatography Volatile Organics
- d. Gas Chromatography Semi-Volatile Organics
- e. Sample Preparation Methods
- f. Gas Chromatography/Mass Spectrometry Volatile Organics
- g. Gas Chromatography/Mass Spectrometry- Semi-Volatile Organics
- h. LC/MS, LC/MS/MS-Analyte Specific
- i. ICP
- j. IC
- k. Dense Non-Aqueous Phase Liquids (DNAPL) Detection Technique
- 1. Colorimetric In Situ Probes
- m. Electrochemical Methods

- n. Ion-Specific Electrodes
- o. Open-Light Path Techniques
- p. Fourier Transform Infrared Spectroscopy
- q. Tunable Dye Lasers
- r. Direct Sensors
- s. Colorimetric Tests (includes kits)
- t. Titrametric Tests (includes kits)
- u. Spectrophotometric Tests
- v. Analyze Immediately Parameters Dissolved Oxygen, pH, Temperature, Residual Chlorine, Sulfite. Note: Analyze immediately parameters may be accredited under a laboratory accreditation program that is mandated by a state regulatory requirement to be performed by a NELAP AB or State certification program.
- w. Geophysical Test Parameters (Real Time)
- x. Geological Techniques
- y. Other (not otherwise identified)

Categories - Methods/Programs

- i. ASTM
- ii. USGS
- iii. NIOSH
- iv. AOAC
- v. EPA
- vi. State Specific Sampling methods or requirements(e.g.; New Jersey, Florida, etc.)
- vii. Other (to be named specifically as part of the accreditation, such as LQSR for NLLAP)

 Standard states: "Accreditation shall be granted for Field Sampling by Matrix/Technology, and/or for Field Measurements by Matrix/Technology."
 -with a supporting note stating "Accreditation may also be granted for Field Sampling/Measurement Methods, or analyte as specific to regulatory programs.".

-I think the entire purpose of NEFAP is to do exactly that, one accreditation. If we have to get both a NEFAP and a NELAC accreditation, then the entire reason for the creation of NEFAP is void. We seem to be spinning a bit out of control here. We are moving into territory that I thought was settled when NEFAP was first formed. We cannot allow ourselves to be sucked back into the laboratory accreditation scheme after fighting for years for the establishment of a separate system. I think we need to possible get Jerry Parr involved to provide some guidance as to the fundamental purpose of NEFAP and our mission to develop an accreditation program independent of the lab side. I think we are losing sight of this. Having been assessed and also been an evaluator on AB assessments it is clear that it would be in our best interest to provide some guidance and work with the ABs and FSMOs to focus and have consistency on how the field sampling scopes are written and presented.

What I would like to see for consistency is a list of matrices to choose from and a technology. However, in most cases would be the specification, method or technique as described in the standard operating procedures provided by the FSMO.

Should we assist by giving a field of sampling list like: 1. Water-Groundwater, surface, other water sampling, 2. Soil sampling-grab, composite, other solid sampling, Air – passive, ambient, stack?

The procedure would then be listed as described in an SOP (stack, passive, ambient). Please give your thoughts to this so I can gather feedback. We represent the stakeholders is this program so we should try to help make the process smoother and in accordance with the standards by having options. I guess what we should look at is providing a set of guidelines for the users of the program.

How would you complete the table below? Or should the table look different...? Please give me your thoughts, needs and ideas.

OVERALL REQUIREMENTS Quality Management Requirements per ISO 17025 General Field Decontamination requirements General Field Documentation requirements General Field QC requirements

DW/NPW SAMPLING Grab Sampling Composite Sampling (OR, organize by Surface Water, Groundwater, Drinking Water, Wastewater) SCM SAMPLING Grab Sampling Drum Sampling Core Sampling (OR, organize by Soils, Sediments, Wastes) BT SAMPLING Tissue Sampling Biological Communities and Habitat Assessment

AE SAMPLING

Source Air / Stack Gas Sampling (activities to include Pitot Tube calibrations, stack traverses, VOST trains, impinger trains, filters & cartridges, Performance Audit Samples (see the TNI SSAS Stds.), flowmeter calibrations, humidity & moisture corrections) Continuous Emission Monitor Validations (activities to include Performance Specifications, Zero & Relative Accuracy tests, data completeness and representativeness evaluations) (OR, organize by NOx, TSP, O3, SO2, Pb, meteorological parameters, etc.)

Industrial Hygiene Sampling (activities to include hi-flow & lo-flow sampling pumps, filters, cartridges, passive dosimeters)

Canister Sampling

FIELD TESTING

pH, Conductance, Salinity, Temperature, Dissolved Oxygen, Turbidity, Light Penetration, Chlorine Any more detailed FoAs, while beneficial for testing laboratories, would be superfluous to FSMOs (in my opinion). There you go. My head is on the chopping block. Chop away.

-Under this scheme, the scope for stack testers would simply be Air - EPA methods. That's it. -I recommend that, in accordance with the 2007 TNI FMSO Sector V2 [ISO] Revision 0.1 standard, full scopes of accreditation should list the procedure, matrix and analyte for analytical measurements, and procedure and matrix for sampling. Condensed scopes of accreditation should list the technology and matrix for analysis and sampling. The NEFAP EC should also obtain an answer from the EPA Forum on Environmental Measurement to the question: "If a sampling organization elects to demonstrate its competency via accreditation, what is EPA looking for on the scope of accreditation issued by the accreditation body?"

Currently LELAP will recognize scopes which list the matrix "Air Emissions"; reference methods (title and revision or edition number, and/or date of approval) for sampling, preparation (extraction, filtration, digestion etc), and analysis; standard operating procedures (title and revision number and/or date); and for analytical methods, the analytes, analyte groups or parameters being measured. LELAP is not requiring the listing of analytes, analyte groups or parameters associated with sampling or sample preparation at this time. Other matrix descriptions such as those listed on the 2010 document and those you, Carl, and Mike submitted are acceptable; each accreditation body should allow the applicant sampler and/or tester to submit a request a clearly defined scope of accreditation that is useful to all stakeholders. Hi Paul!

My apology for not being able to get back with you sooner, but I am sure you saw my 'out of office' response to your message and unexpectedly also ended-up not being in the office yesterday. Thank you for your participation in the webinar and for your question. If a sampler pursued accreditation/certification, a competency demonstration would be expected for the matrix, method and/or technology, analytes for which they were being awarded the assistance agreement.

Hope this helps. Thanks! Lara

Lara P. Phelps, Senior Advisor

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

U. S. Environmental Protection Agency, Office of the Science Advisor 109 T.W. Alexander Drive (E243-05), Research Triangle Park, NC 27709 Office: 919-541-5544 | Cell: 202-494-1585 | Email: <u>phelps.lara@epa.gov</u>

Kim:

Thanks for sending me this. I'm just replying to you and Ilona. Not sure I understanding your response, as I have done a lot of sampling (stack, wastewater-grab and composite, drinking water, groundwater, and soil) and always felt I needed to control my sampling devices. Including such things as heat tracing lines on an ISCO composite sampler when sampling in sub-zero temperatures, monitoring flow rates on a dry gas meter and ensuring the correct orifice was selected in stack sampling, or making sure a coring device was properly cleaned between each sample for collecting soils. In each case, I knew the device, the matrix and analyte. For example OK to use methylene chloride to clean a particulate filter, but would not be OK for a SASS train for collecting organics.

Jerry

Please everyone - keep an open mind and realize that we have focused too long on the analyte as the outcome and we have NOT focused on the process which is needed to be sure every step in the data generation is performed by competent personnel within organizations that have demonstrated this competency through accreditation.

The need for analyte is totally inappropriate for sampling and field measurements. Many field measurements (stack sampling, groundwater measurements such as MIP, etc.) do not and cannot be evaluated on an analye basis. Even field testing is technology based since the environmental conditions for each method is highly variable.

Here is the one of many problems with PTs and analyte specific field testing rather than technology. PTs are performed by the wastewater lab for DMR report reporting (NPDES program). The pH measurement that is reported on the DMR comes from automated inline continuous monitoring equipment. How is this PT relevant to demonstrate the organization can perform a proper pH? In fact the personnel in the instrument shop responsible for the automated pH are never evaluated. But we have a lab doing measurements that has no oversight or input to the pH performance of the inline meters. Why are we looking at the competency of the performance of the analyte in the lab and not the competency of using in-line continuous

monitoring equipment? There is no way you can directly measure a PT with the inline meter. The measurement of the analyte is not as critical as the maintenance, calibration and monitoring performance of the technology. (There are many examples which the stack testing community and ground water monitoring and even direct push techniques that measure an analyte using a variety of processes, but most can never measure a PT since the media is different.) The technology (entire measurement system) is important, not the specific analyte.

Also use of a technique can be demonstrated in a management system with competency demonstrated and monitored by the organization. The qualifications, training, oversight and monitoring of this is the responsible for the organizations management. The accreditation process ensures this is taking place and that the data generated is appropriate for the customer.

Many of the TNI community have never managed and worked in field operations. Many only see the analyte and do not realize how we have never required the field sampling design and procedure to be equally performed by competent organizations. This occurs because we continue to focus on the analyte and do not ensure the competency of the entire process for generating the measurement (technology).

I have been doing training for DOD for over twenty years for field QC and before that managed, performed and monitored a variety of field operations. Within the last 8 years I have been focusing on the design of sampling and testing operations for project management. The accreditation of the field activities is one more step in the process to ensure competency, We will not have data of known and documented quality for the intended use until all aspects of the data generation process is performed by competent organizations.

I appreciate Marlene's, Paul's and Lara's comments and I think we need to consider all. I think that we need to consider Lara's perspective very heavily since it involves any project that takes federal monies, has nothing to do with any regulation. Paul's perspective is important since he actually runs an accreditation program for Air...I would think that we can craft something that allow inclusion of analyte where needed, but again it think that matrix/technology are the critical components not necessarily method and analyte...but there needs to be more definition in the scope than just a global "air or water or solids" determination...so maybe we should figure how to focus on getting more definition but not breaking the camel's back...also we need to take into account the end user of the data and what they are going to need to make a good decision on FSMOs for their project and while an effective management system is important...competence in a particular technology or technique is as critical.

-Good morning!

Please let me apologize for any confusion that my response to Paul on Tuesday caused in creating this situation. I had just returned from vacation and was catching-up with a great deal of email. As you will see from what I am pasting below, I used Paul's word choice from his emailed question to me without pausing to think about the difference in accreditation combination between NELAC and NEFAP, which does not include analyte. I did not mean to suggest that it suddenly be added from what decisions were made previously.

Ladies and Gentlemen,

Several references for Environmental Protection Agency information were provided during the Field Activities Committee session on Wednesday, February 04, 2015 (8-10 AM) of the TNI Forum on Laboratory Accreditation.

This message communicates those and provides my contact information for potential future participation:

System of Registries, Terminology

http://ofmpub.epa.gov/sor_internet/registry/termreg/searchandretrieve/te rmsandacronyms/search.do

Terms & Acronyms

Use this search to retrieve specific terms or acronyms and their definitions. This search allows the user to search all approved terms and acronyms in the system. Users may select the type of search (begins with, contains, exact match).

From the Search Results page, the user may click on a link to go directly to the vocabulary containing the term.

Note: Not all terms and acronyms within the system have definitions. Acronyms are treated as terms within the system.

Vocabulary Catalog

The Vocabulary Catalog enables users to find and retrieve an entire vocabulary, such as a glossary or an acronym list.

- A glossary is comprised of terms and associated definitions pertaining to a particular subject or field.
- An acronym list provides the meaning of acronyms related to a particular subject of field.
- The Vocabulary Catalog attempts to provide a comprehensive list of EPA vocabularies. Many of the vocabularies in the catalog are maintained within Terminology Services, while others are not. Those that are maintained within Terminology Services are designated with

a . Those that are not available within Terminology Services, we link to the appropriate EPA resource where that vocabulary can be found.

- Users may search vocabularies by topic or by the organization who owns the vocabulary.
- The Search Results page displays all glossaries and acronym lists that match the search results. Clicking on the glossary or acronym list will launch to that glossary or acronym lists.
- *HINT: Quality Management System documents will be found in The Office of Environmental Information section of the catalog.

EPA Quality System is largely represented on outward facing web pages linked to: <u>http://www.epa.gov/quality</u>

Notes:

[if !supportLists]1. [endif]Updates to regulatory and consensus standard references are pending.

[if !supportLists]2. [endif]Terminology information above - is linked from the left side-bar.

The Forum for Environmental Measures: <u>http://www.epa.gov/fem/</u>

Environmental Technology

Guidance: http://www.epa.gov/quality/envtech.html

Office of Environmental Information's Policies List Page: http://www.epa.gov/irmpoli8/policies/index.html

For use within EPA:

CIO 2105. 1 A2 Policy and Program Requirements for the Mandatory Agency-Wide Quality System (PDF) (12pp, 94K) Related Procedures, Standards, and Guidance [if !supportLists]· [endif]EPA Quality Manual for Environmental Program (PDF) (63pp, 369K) [if !supportLists]· [endif]EPA QA Field Activities Procedures (PDF) (14pp, 236K)

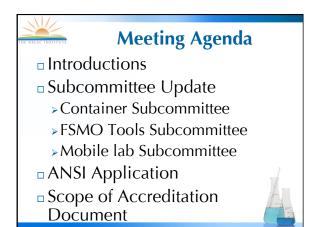
5

Plain Language Checklist

http://centerforplainlanguage.org/5-steps-to-plain-language/

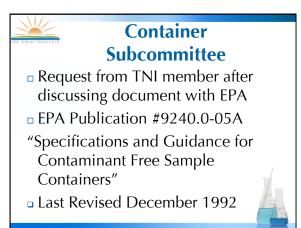






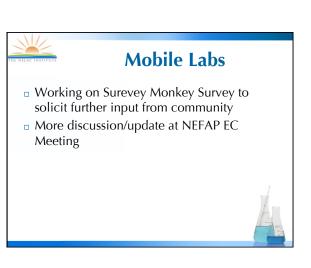






Container Subcommittee Investigate whether to address Formation of subcommittee Need members from other stakeholder groups!

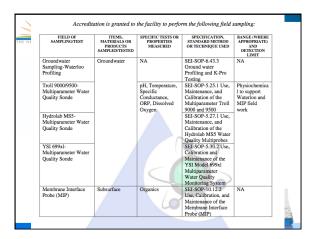
- Review need with EPA and what format to address
- □ More to come at NEMC











FIELD OF SAMPLING/TEST	ITEMS, MATERIALS OR PRODUCTS SAMPLED/TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Groundwater Sampling (SOP # FS-7) Field	Groundwater	pH	SOP # FS-05	0 std pH Units to 14 std pH Units
Sampling Procedure		Temp	SOP # FS-03	0 °C to 100 °C
Manual		Conductivity	SOP # FS-04	0 umhos/cm to 1 999 umhos/cm
		ORP	SOP # FS-06	-999 mV to 999 mV
		Residual Chlorine	SOP # FS-11	0 mg/L to 2 mg/L
		Dissolved Oxygen	SOP # FS-16	0 mg/L to 2 mg/L
Surface Water (SOP #FS-09)	Surf ace Water	pH	SOP # FS-05	0 std pH Units to 14 std pH Units
		Temp	SOP # FS-03	0 °C to 100 °C
		Conductivity	SOP # FS-04	0 umhos/cm to 1 999 umhos/cm
		ORP	SOP # FS-06	-999 mV to 999 mV
		Residual Chlorine	SOP # FS-11	0 mg/L to 2 mg/L
		Dissolved Oxygen	SOP # FS-16	0 mg/L to 2 mg/L
Grab Sample from Tap or Faucet (SOP # FS-10)		pH	SOP # FS-05	0 std pH Units to 14 std pH Units
		Temp	SOP # FS-03	0 °C to 100 °C
		Conductivity	SOP # FS-04	0 umhos/cm to 1 999 umhos/cm
		ORP	SOP # FS-06	-999 mV to 999 mV
		Residual Chlorine	SOP # FS-11	0 mg/L to 2 mg/L
		Dissolved Oxygen	SOP # FS-16	0 mg/L to 2 mg/L



TNI FSMO V1 2007 Rev ollowing testing technolog		npling and Measurement Organization Volume 1 nization to perform recognized methods using the d below:
echnology: XRF ampling:		
Matrix	Equipment	Procedure
Paint Chips	N/A	HUD Guidelines for the Evaluation and Control of Lead-based Paint Hazards in Housing, Chapter 7, Lead-Based Paint Inspection, Appendix 13.2
Soil	N/A	HUD Guidelines for the Evaluation and Control of Lead-based Paint Hazards in Housing, Chapter 7, Lead-Based Paint Inspection, Appendix 13.3
Dust Wipes	N/A	HUD Guidelines for the Evaluation and Control of Lead-based Paint Hazards in Housing, Chapter 7, Lead-Based Paint Inspection, Appendix 13.1
Air	Sampling pump	NIOSH Method 7300



