



Analysis. Answers. Action.

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# USA's National Biomonitoring Network

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**Vision:** A healthier world through quality laboratory systems.

**Mission:** Shape national and global health outcomes by promoting the value and contributions of public health laboratories and continuously improving the public health laboratory system and practice.



# February 2015

## Fourth National Report on Human Exposure to Environmental Chemicals





# LRN-C Member Labs BP3



- 62 PHEP Awardees (50 states, 4 localities, and 8 territories)
- 54 LRN-C Laboratories (Based on awardees: 50 states, 3 cities, and 1 territory)
- 59 laboratories nationwide participate in either PT or SPASE (Including the labs that share an award within a particular state; Ex: Florida)
- Puerto Rico is the only member lab that is exempt from PT; but voluntarily participates in SPASE; it is listed as a Level 2 laboratory based on funding level



# Five-Year National Biomonitoring Plan: A Conclusion



# The National Biomonitoring Network – DRAFT

## **VISION**

A formal, national network of regional, state, and local laboratories conducting high-quality biomonitoring science for use in routine public health practice and in response to environmental emergencies.

## **MISSION**

To advance biomonitoring science by formalizing an integrated network of laboratories dedicated to ensuring the quality and consistency of biomonitoring measurements.

## **MOTTO**

“Advancing community health, public policy and exposure science through biomonitoring.”

# Over the next five years, the NBN will

- Better incorporate biomonitoring measurements into routine public health surveillance.
- Explore hosting a biomonitoring data clearinghouse.
- Better harmonize biomonitoring measurements.





# LABORATORY MEMBER CRITERIA

- Tier 1 laboratories have. . .
  - engaged in biomonitoring activities related to **surveillance**, targeted and emergency response.
  - demonstrated successful participation in an established **quality assessment** program.
  - a well-established **team integrated within the state public health system.**



## Tier 2 laboratories have. . .

- engaged in biomonitoring activities related to **targeted and emergency response**.
- demonstrated successful participation in an established quality assessment program.
- a well-established biomonitoring team integrated within the state public health system.



# Remaining Tiers

- Tier 3 laboratories have. . .
  - biomonitoring capabilities and infrastructure but are not actively conducting biomonitoring.
  - an established implementation plan and timeline.
  - a team integrated within the state public health system.
- Tier 4: Laboratories considering development of biomonitoring capabilities

# Timeline

Phase 1 (Y01) -  
Planning

- Establish the NBN structure.
- Establish the NBN Steering Committee and Workgroups.
- Establish the NBN Advisory Board.

Phase 2 (Y02-  
Y03) - Executing

- Establish core membership of biomonitoring programs.
- Explore establishing a central, national data repository.

Phase 3 (Y04) -  
Executing

- Advertise and educate about the NBN.
- Expand the NBN membership (if appropriate).

Phase 4 (Y05) -  
Monitoring and  
Controlling

- Revisit the NBN structure and determine if further expansion is necessary.
- Evaluate NBN influence and success.

# Harmonization Challenges

- Study design
- Sample collection
- Validated laboratory methods
- Comprehensive quality management
- Data vocabulary



# Biomonitoring Toolkit

- New Announcement
- Biomonitoring Toolkit User Guide
- Libraries
- Shared Documents
- Methods
- Publications
- Reports from States
- Guidance Documents
- Training Documents
- Communications Tools
- Informatics
- Reporting
- Lists
- Calendar
- Discussions
- General Discussion
- Recycle Bin



## - Announcements -

### Libraries

Welcome to the Biomonitoring Toolkit!

Dear Colleagues in Biomonitoring,

The Association of Public Health Laboratories (APHL) proudly announces our new [Biomonitoring Toolkit](#)! Created for anyone interested in the biomonitoring system – from environmental health directors & epidemiologists, to toxicologists & academics – this resource will try to answer any question you may have about biomonitoring.

Document libraries (in the left navigation) include overarching guidance documents, laboratory methods, communication templates, and stories from the field. Links (along the right side) point to other relevant resources. This discussion board, which functions similar to a listserv, facilitates conversation among subscribers about biomonitoring. The site allows for multiple discussion threads to take place at once, as well as a robust search engine for finding old discussion threads.

To access the toolkit, you need to log into [APHL's SharePoint site](#). If you have not used our SharePoint tool, you will need sign up for an account:

- Visit [www.aphl.org](http://www.aphl.org) and click on 'Create an Account' (upper right).
- Email [admin.sp@aphl.org](mailto:admin.sp@aphl.org) to let us know which email address you used and we'll add that to the Toolkit.

## - Links -

- [Ref : APHL Resource](#)
- [Ref : Clinical and Lab](#)
- [Ref : Environmental](#)
- [Ref : Federal Resource](#)
- [Ref : General Resource](#)
- [Ref : Limit of Detect](#)
- [Ref : Quality Assuran](#)
- [Ref : Study Design](#)

### Links



# Biomonitoring Toolkit: Discussion Board

## - General Discussions -

[Click here to add new discussion](#)

### General Discussion

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Subject

Created By

Replies

[NHANES Pooled Sample Data Tables Removed](#)

[kathryn.wangsness@azdhs.gov](mailto:kathryn.wangsness@azdhs.gov)

0

[Question from NIH](#)

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1

[State Biomonitoring FOA](#)

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4

[Partners for biomonitoring](#)

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1

[Fluoride Testing](#)

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1



### View by Analyte Type

- Metals
- Phenols
- Herbicides
- Pesticides
- Persistent-Organic-Pollutants
- Other Environmental Exposures

### Search by

Select Matrix Type

Lead

Select Instrument Platform

Select a State

Clear All Selections

### Analytes List

new item

<input checked="" type="checkbox"/>	ANALYTE TYPE	MATRIX TYPE	ANALYTE ITEMS <input type="button" value="v"/>	INSTRUMENT PLATFORM	METHOD TYPE
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▶ Laboratory : Alaska State Public Health Laboratory (2)



NATIONAL CONFERENCE  
of STATE LEGISLATURES

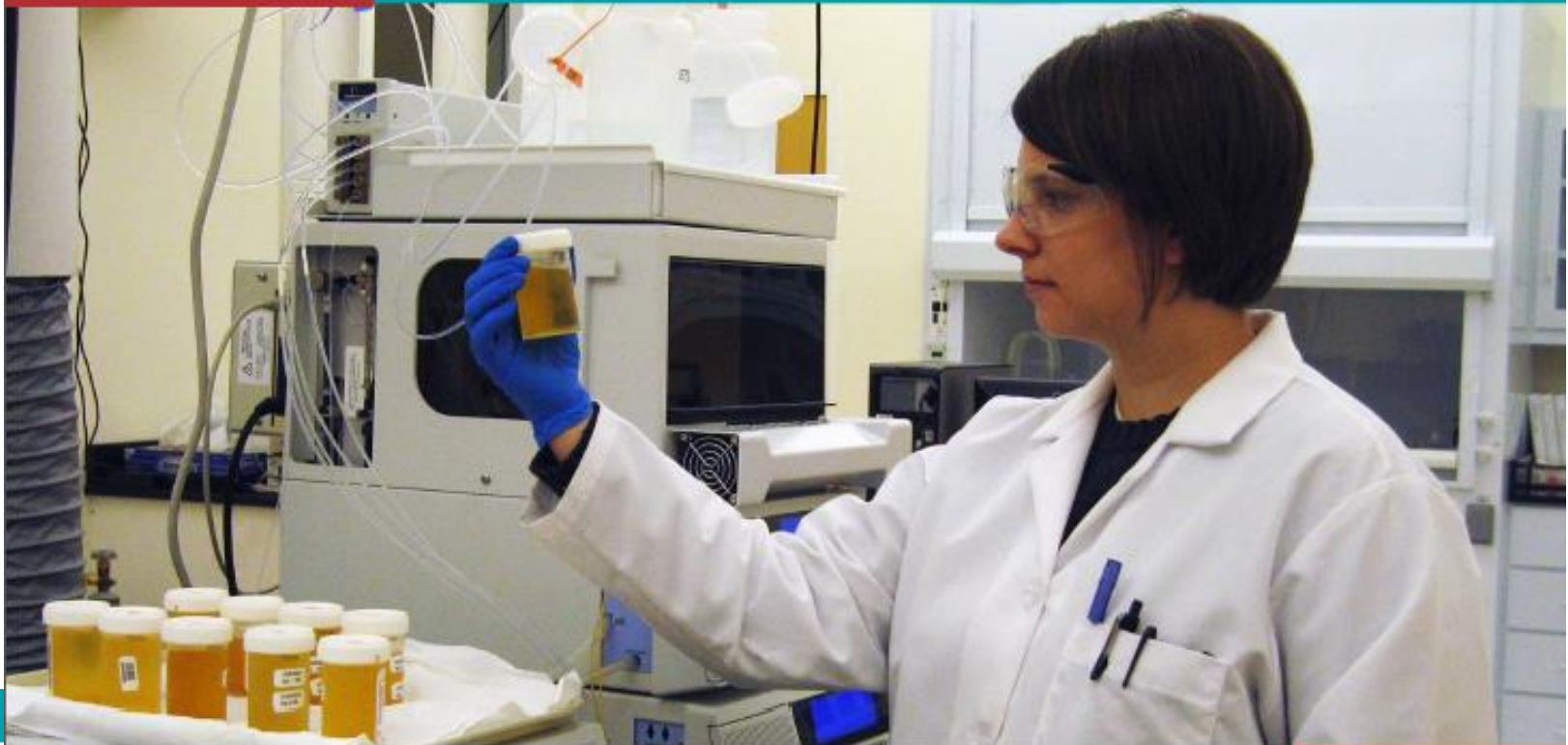
*The Forum for America's Ideas*

# Biomonitoring A Best Practices Report for State Legislators



# GUIDANCE FOR LABORATORY BIOMONITORING PROGRAMS

APHL Report



APRIL 2012

org

COUNCIL OF STATE AND TERRITORIAL EPIDEMIOLOGISTS

# BIOMONITORING IN PUBLIC HEALTH:

Epidemiologic Guidance for State, Local,  
and Tribal Public Health Agencies



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*Office of Surveillance, Epidemiology and Laboratory Services (OSELS)*

*National Center for HIV, Viral Hepatitis, STDs and TB Prevention (PS)*

*National Center for Zoonotic, Vector-borne, and Enteric Diseases (CK)*

*National Center for Immunization and Respiratory Diseases (IP)*

*National Center for Environmental Health (NCEH)*

*National Center for Birth Defects and Developmental Disabilities (NCBDD)*

# Thank you!

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