

**Technical Review Workgroup for Metals and Asbestos
Lead Committee Annual Report:
Accomplishments and Activities for Calendar Year 2019**

Full Members

Region 1

Mary Ballew
Courtney Carroll

Office of Research and Development (ORD)

Kirk Scheckel
Jim Brown (incoming co-chair)

Region 2

Julie McPherson

**Office of Superfund Remediation and Technology
Innovation (OSRTI)**

Michele Burgess (co-chair)

Region 3

Dawn Ioven
Linda Watson

Utah Department of Environmental Quality

Scott Everett

Region 4

Kevin Koporec

**Agency for Toxic Substances and Disease Registry
(ATSDR)**

Steve Jones

Region 5

Andrew Podowski
Keith Fusinski

Region 6

Ghassan Khoury

Region 7

Todd Phillips (co-chair)

Region 8

Charles Partridge

Region 9

Sophia Serda

Region 10

Marc Stifelman (outgoing co-chair)

TRW Lead Committee Accomplishments of 2019

Reports and Guidance on Lead Risk Assessment (completed and active projects)

1. **Updates to the Integrated Exposure Uptake Biokinetic Model (IEUBK):** The Lead Committee continues to support the memorandum for the Relative Bioavailability (RBA) variable update to the IEUBK model. (The RBA variable and peer review report are currently in review by OSRTI management.)
2. **Revised *In Vitro* Sampling Guidance for Relative Bioavailability (RBA) for Lead and Arsenic:** Continued revision of the *In Vitro* Relative Bioavailability Sampling Guidance with the TRW Bioavailability Committee. This supplemental guidance is intended for regional risk assessors and regional risk managers to assist them with developing sampling plans for site soil RBA assessments and application of bioavailability data to risk assessments. The update covers data quality objectives, sampling planning, prospective and retrospective analyses, frequently asked questions and case studies.
3. **Residential Lead-Contaminated Sites Handbook:** The Handbook is in development by the OSRTI Immediate Office. The Lead Committee anticipates reviewing the draft updated version.
4. **Update to the IEUBK Model:** Continued support for evaluation of IEUBK model version 2.0 by the Lead Committee and conversion to the latest Visual Studio compiler used to build the executable IEUBK file.
5. **Video Training:** The third IEUBK training video is underway. This video will demonstrate how to run the model and assess risk for intermittent exposure scenarios (e.g., child recreators or trespassers).

Communication, Training, and Outreach

1. **Hotline:** The TRW Lead Committee responds to questions from inquiries made either by telephone to the TRW Lead Committee hotline (toll-free 1-866-282-8622) or via pbhelp@epa.gov. The TRW Lead Committee responded to 54 requests for assistance in 2019. Requests were received from the following groups:
 - a. 36 requests were from state and federal agencies;
 - b. 3 were from outside the US; and
 - c. 15 requests were from other sources (public, non-governmental organizations, and engineering and consulting firms).

Most of the requests pertained to the IEUBK model, exposure scenarios, screening levels/policy, or guidance-related questions. See Attachment 1 for details on the questions.

2. **Presentations/Training:** Continued development of a training video to support assessments involving less than full time exposures.

TRW Lead Committee members presented at one conference and training meeting in 2019: Courtney Carroll presented on R1 lead policy to RPMs and managers at a training meeting for five-year review planning.

3. **Website:** The TRW continues to support the TRW Lead Committee website as a source of supplemental guidance for risk assessors and other stakeholders.
4. **Charter:** Revised the TRW Charter to better develop, maintain, and promote consistent application of the best available science in the field of human health risk assessments and methods for assessing human health risk posed by asbestos, metals and bioavailability of soil and soil-like (e.g., floodplains) contaminants at affected sites nationwide. (The TRW Charter is currently in review by OSRTI management.)
5. **Lead Committee Biennial Meeting:** The Lead Committee is planning a joint TRW Lead and Bioavailability training conference in the fall of 2020.

Coordination/Support with States, Regions, EPA Program Offices, and Other Federal Agencies

Region 2: Provided review and comments on the New Jersey Department of Environmental Protection Alternative Remediation Standard for Lead document.
Provided a consultation and comments for the Newark Bay Operable Unit 4 (17-mile) of the Passaic River Superfund site in Newark, New Jersey. The main contaminants are dioxins and polychlorinated biphenyls (PCBs). The consultation was regarding the consumption of crab and fish exposed to lead-contaminated sediments.
Provided a consultation and comments for the New Jersey Department of Environmental Protection Assunpink Creek Greenway site in Trenton, New Jersey. The consultation was regarding assessing risk to lead – contaminated soil for a trespasser scenario.

Region 6: Provided a consultation and comments for Operable Unit 5 (Sediments and Surface Water) of the Tar Creek Superfund Site in Ottawa County, Oklahoma. The consultation was regarding assessing risk for various exposure pathways for Tribes and the general public.

Office of Research and Development (ORD): The TRW Lead Committee is coordinating with ORD to evaluate the performance of the IEUBK model and to support Science Advisory Board review of the All Ages Lead Model (AALM).

Region 10: Supported Region 10 response to a request from a Potentially Responsible Party about using alternate dietary inputs (Zartarian et al., 2017).

Coordination with Other Nongovernment Groups

None

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TRW Lead Committee Plans for 2020

1. **IEUBK Model Updates:** Several of the IEUBK default variables have been evaluated and peer reviewed. They are the following: Bioavailability, Diet, Breathing Rate, Soil/Dust Ingestion Rate, Water Consumption and Water Lead Concentration. Due to the changes in some of the more influential default variables, the IEUBK Model is undergoing performance evaluation by U.S. EPA ORD. Once the evaluation is completed, the TRW anticipates releasing IEUBK (v2).
2. **IEUBK User Guide Revisions:** The User Guide will be updated to reflect the changes in the IEUBK default variables.
3. **Video Training:** The third IEUBK training video will be released in 2020. This video will demonstrate how to run the model and assess risk for intermittent exposure scenarios (e.g., child recreators or trespassers).
4. **Supplemental Guidance on Interpreting Intermittent Exposure Scenarios:** This guidance will focus on the interpretation of the output of the All Ages Lead Model for evaluating acute or highly intermittent exposures to children and adults.
5. **Training Opportunities for 2020.** Identify training opportunities to support and update Regions on recent developments related to lead risk assessment (AALM, Handbook, etc.).
6. **Residential Lead-Contaminated Sites Handbook:** Support release of the updated version, including training.
7. **TRW Committee Business**
 - a. **Biennial Meeting.** Plan Biennial Meeting for fall of 2020.
 - b. **Annual Report.** Develop and release the Calendar Year 2019 Lead Committee Annual Report.