



Standard Guide for Sample Selection of Debris Waste from a Building Renovation or Lead Abatement Project for Toxicity Characteristic Leaching Procedure (TCLP) Testing for Leachable Lead (Pb)¹

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1. Scope

1.1 This guide describes a method for selecting samples of building components coated with paints suspected of containing lead. The samples are collected from the debris waste stream created during demolition, renovation, lead hazard control, or abatement projects. The samples are subsequently analyzed in the laboratory for lead.

1.1.1 The debris waste stream is assumed to have more than one painted component, for example, metal doors, wood doors, and wood window trim.

1.2 This guide is intended for use when sampling to test for lead only and does not include sampling considerations for other metals or for organic compounds. This guide also does not include consideration of sampling for determination of other possible hazardous characteristics of the waste.

1.3 This guide assumes that the individual component types comprising the debris waste stream are at least partially segregated and that the volume of each type of component in the debris waste stream may be estimated.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

D 4840 Practice for Sampling Chain of Custody Procedures²

E 105 Practice for Probability Sampling of Materials³

E 2239 Standard Practice for Record Keeping and Record Preservation for Lead Hazard Activities⁴

¹ This guide is under the jurisdiction of ASTM Committee E06 on Building Performance and is the direct responsibility of E06.23 on Abatement of Hazards from Lead in Buildings and Related Structures

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² *Annual Book of ASTM Standards*, Vol 11.01.

³ *Annual Book of ASTM Standards*, Vol 14.02.

⁴ *Annual Book of ASTM Standards*, Vol 14.12.

2.2 Federal Documents:

40 CFR (Code of Federal Regulations) Part 261, Appendix II-Method 1311, Toxicity Characteristic Leaching Procedure (TCLP)⁵

Interim Final Report, Lead-Based Paint Contaminated Debris–Waste Characterization Study No. 37-26-JK 44-92, May 1992–May 1993⁶

2.3 OSHA Standard:

29 CFR 1926.62, OSHA Lead in Construction Standard⁴

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *component (of the waste), n*—each of those different and distinguishable materials that comprise the waste.

3.1.2 *sample (of the waste), n*—a collection of the components of the waste assembled in proportion to their contribution to the total volume of the waste.

3.1.3 *waste, n*—material resulting from conduct of a demolition, renovation, or lead abatement project that is or will be directed for disposal.

3.1.4 *waste stream, n*—the total flow of waste from a demolition, renovation, lead hazard control or abatement project.

NOTE 1—Regulations promulgated by authorities having jurisdiction may define terms in 3.1.1-3.1.4 differently than defined above.

4. Summary of Practice

4.1 The entirety of the debris waste stream created by demolition, renovation, lead hazard control or abatement projects in and around buildings and related structures is examined visually, and estimates made of the total volume of the waste and of the relative volume proportions of the various components of the waste. A sample of the waste is selected and assembled that contains the various waste components in the

⁵ Available from Superintendent of Documents, U.S. Government Printing Office, P.O. Box 371954, Pittsburgh, PA 15250-7954. Also available from <http://www.gpo.gov/nara/cfr/index.html>.

⁶ Available from Commander, U.S. Army Environmental Center, ATTN: SFIM-AEC-EC, Bldg. E4435, Aberdeen Proving Ground, MD 21010-5401. Also available from http://chppm-www.apgea.army.mil/ahome/docs/lead_list.htm.