Supplemental Material

Evaluating and Regulating Lead in Synthetic Turf

Gregory Van Ulirsch,¹ Kevin Gleason,² Shawn Gerstenberger,³ Daphne B. Moffett,¹ Glenn Pulliam,⁴ Tariq Ahmed,⁴ and Jerald Fagliano⁴

¹Agency for Toxic Substances and Disease Registry, Atlanta, Georgia, USA

²New York State Department of Health, Troy, New York, USA

³University of Nevada Las Vegas, Department of Environmental and Occupational Health, Las Vegas, Nevada, USA

⁴New Jersey Department of Health and Senior Services, Trenton, New Jersey, USA
Supplemental Material, Figure 1.
Portion of visible fiber dust collected by high volume vacuum sampling of synthetic turf at Surface 3 in New Jersey.

Surface 3

Total Dust = 1.2648 grams/ft²
Lead Concentration = 3,200 mg/Kg
Lead Loading = 4,047 mcg/ft²

Portion of sieved dust
<75 microns dust = 0.7146 grams/ft²
Lead Loading = 2,286 mcg/ft²
Supplemental Material, Figure 2.
Mean and Standard Error (S.E.) Lead Dust Wipe Sample Results for 3 Surfaces — Landscape Use and Childcare Facilities, Clark County, Nevada. 2008.

**Notes:**
- mcg/ft² – micrograms of lead per square foot
- 40 mcg/ft² = Lead dust hazard standard for floors (bare and carpeted) *(US EPA 2001)*
- Present data for synthetic turf fibers with a total lead concentration >300 mg/Kg and with a quantified lead concentration in at least one wipe sample.
- a - Not depicted: Lead was not present above the detection limit of 20 mcg/ft² in dust wipes from 3 additional fields - Surfaces 22 (n=6), 23 (n=2) and 28 (n=9).
References