Table 4. Metal Concentrations and Extraction Efficiencies

Material Type	Arsenic (μg/L)	Arsenic (μmol/L)	Arsenic Extracted (%)	As(V) (%)	As(III) (%)	Chromium (μg/L)	Chromium (μmol/L)	Chromium Extracted (%)	Cr:As Molar Ratio	Iron (μg/L)	Iron (μmol/L)	Iron Extracted (%)	Copper (μg/L)	Copper (μmol/L)	Copper Extracted (%)
Sweat Extraction Fluid															
Brush-Removed Residue	18,421	246	12±0.3	92±0.5	7.8±0.4	7,923	152	4.7	0.62	947	17.0	0.15	23,943	377	26
Hand-Removed Residue[a,b]	3,276	43.7	11±2.2	--	--	3,472	66.8	8.8	1.53	2,815	50.4	2.3	9,966	157	48
Wood Surface (0.3 cm)	1,588	21.2	2.3±0.7	98±0.2	1.7±0.2	1,353	26.0	1.2	1.23	279	5.00	0.29	13,793	217	49
Utility Pole Soil (CCA impacted)	198	2.65	1.4±0.2	82±0.8	18±0.8	2.34	0.0450	0.031	0.02	0	0	~0	10.7	0.169	0.12
NY Pesticide Facility Soil	1,147	15.3	1.8±0.1	--	--	--	--	--	--	--	--	--	--	--	--
Colorado Residential Soil	5,330	71.1	11±0.3	--	--	--	--	--	--	--	--	--	--	--	--
Yolo County Soil (spiked, <150 μm)[c]	65,821	879	45±20	--	--	--	--	--	--	--	--	--	--	--	--
Yolo County Soil (spiked, 180–300 μm)[d]	105,963	1,414	72±2.7	--	--	--	--	--	--	--	--	--	--	--	--
Gastric Extraction Fluid															
Brush-Removed Residue	7,428	99.1	22±2.4	93±0.1	7.1±0.1	3,270	62.9	8.2	0.63	5,503	98.5	3.8	15,830	249	73
Wood Surface (0.3 cm)	1,070	14.3	6.2±0.4	99±0.8	0.93±0.8	519	9.99	1.9	0.70	728	13.0	3.0	6,340	99.8	90

Note: Unless otherwise stated, values represent the average of three samples. If concentration in sweat blank or matrix was was greater that concentration in sample extract, the sample extract concentration was set to zero.

[a] Average of duplicate samples.

[b] Concentration in pre-extraction solid was back-calculated from the sweat extract and post-test residue concentrations and masses.

[c] Yolo County soil was spiked with approximately 3,500 mg/kg arsenic 15 minutes before the extraction test was performed.

[d] Yolo County soil was spiked with approximately 3,500 mg/kg arsenic 1 hour before the extraction test was performed.