Table S1. Unadjusted association between household factors participant activities and housing type (green vs non-green) over the study period

Household factors	OR (95% CI)	p-value
Household size	0.91 (0.73-1.13)	0.39
Tenure, mean years	0.94 (0.85 - 1.03)	0.11

Annual Household Income
  <$25,000
  ≥ 25,000
	0.58 (0.17-2.04)
	REF
		0.4

Multifamily house	1.66 (0.87-3.15)	0.12
Stove type, gas vs electric	0.75 (0.39-1.41	0.37
Bathroom exhaust fan	4.13 (1.22 -14.04)	**0.01**
Water damage [a]	0.49 (0.20-1.21)	0.12
Carpet changed [a]	0.62 (0.19-2.01)	0.43
Renovations [a]	6.88 (2.84-16.64)	**<0.0001**
Season sampled		**0.0003**
Winter	REF	
Spring	2.24 (1.26 – 3.99)	
Summer	0.74 (0.45 – 1.22)	
Fall	1.46 (0.79 – 2.70)	
Participant activities during environmental sampling		
Smoking in the home	1.19 (0.66-2.13	0.57
Cooking ≥1hr	0.68 (0.42-1.10)	0.11
Vent while cooking	1.36 (0.79 – 2.32)	0.27
Burned candles	1.12 (0.62 – 2.03)	0.69
Open windows ≥1 hr/day	1.02 (0.62 – 1.67)	0.95
Air conditioner use ≥ 1 hr/day	1.23 (0.85-1.80)	0.26
Heat use ≥ 1 hr/day	1.35 (0.88 – 2.06)	0.17
Participant activities, previous six months		
Seen Mice	1.51 (0.69-3.27)	0.28
Pesticide spray use	1.72 (1.10-2.69)	**0.02**
Seen Cockroaches	0.33 (0.59-1.46)	0.76

[a] Previous 6 months; Bold indicates statistically significant p < 0.05

Table S2. Average contaminant level over the study period, N = 445

Variable	N	Mean (sd)	Median	25th percentile	75th percentile
$PM_{2.5}$, µg/m^3	426	28.41 (35.35)	15.72	9.12	33.94
Black carbon, µg/m^3	422	0.93 (0.87)	0.77	0.47	1.13
Temperature, (°F)	445	73.98 (5.00)	73.80	71.50	76.80
Humidity (%)	438	46.53 (11.59)	49.50	40.00	54.50
Bla g 2 (µg/g)	71	0.68 (2.07)	0.18	0.08	0.47
Mus m1 (µg/g)	225	0.11 (0.43)	0.02	0.01	0.05

Table S3. Unadjusted and Adjusted associations between Green Housing and Environmental Outcomes including covariates

	PM (ln)		BC (ln)		Humidity (%)		Mouse Allergen (ug/g)		Cockroach Allergen (ug/g)		Mouse Detected		Cockroach Detected		Report Mold		Permethrin Detected	
	Beta	p	Beta	p	Beta	p	Beta	p	Beta	p	OR	p	OR	p	OR	p	OR	p
Green Housing	0.04 (-0.19 – 0.26)	0.74	-0.22 (-0.38 – -0.06)	0.01	0.99 (-0.48 – 2.47)	0.19	-0.04 (-0.13 – 0.05)	0.37	-0.24 (-0.52 – 0.04)	0.10	1.80 (1.06-3.08)	0.04	0.59 (0.33–1.08)	0.09	0.29 (0.13–0.68)	0.003	0.28 (0.15–0.49)	<0.0001
Site		<.0001		0.0002		<0.0001		0.07		0.17		0.0005				<.0001		<0.0001
Boston	REF		REF		REF		REF		REF		REF		REF		REF		REF	
Cincinnati	1.05 (0.72-1.39)		-0.03 (-0.27-0.22)		-2.17 (-4.65 - 0.32)		-0.03 (-0.07-0.01)		0.19 (-0.01-0.39)		0.25 (0.10-0.63)		1.93 (0.88-4.21)		0.65 (0.28-1.48)		16.31 (7.17-37.08)	
New Orleans	0.38 (0.12-0.64)		-0.39 (-0.56- -0.21)		12.87 (10.66-15.07)		0.06 (-0.03-0.15)		0.22 (-0.09-0.52)		0.21 (0.08-0.53)		3.45 (1.69-7.05)		0.09 (0.03-0.23)		2.56 (1.32-4.95)	
Season		0.85		0.09		<0.0001		0.68		0.6		0.32				0.49		0.01
Winter	REF		REF		REF		REF		REF		REF		REF		REF		REF	
Spring	-0.05 (-0.30-0.19)		-0.10 (-0.29-0.08)		4.92 (2.68-7.17)		-0.02 (-0.18-0.13)		0.04 (-0.11-0.20)		0.56 (0.26-1.18)		0.54 (0.27-1.10)		0.49 (0.18-1.35)		0.83 (0.43-1.58)	
Summer	0.06 (-0.19-0.32)		-0.31 (-0.55- -0.07)		12.84 (9.68 - 16.00)		-0.03 (-0.18-0.11)		0.09 (-0.07-0.24)		0.83 (0.34-2.05)		0.84 (0.43-1.64)		0.56 (0.25-1.26)		2.01 (1.07-3.77)	
Fall	0.01 (-0.25-0.26)		-0.02 (-0.29-0.250)		8.31 (5.80-10.82)		0.01 (-0.15-0.17)		0.25 (-0.24-0.75)		0.57 (0.28-1.19)		0.55 (0.27-1.11)		0.77 (0.31-1.89)		1.34 (0.66-2.71)	
Tenure (yrs)	0.01 (-0.01-0.03)	0.63																