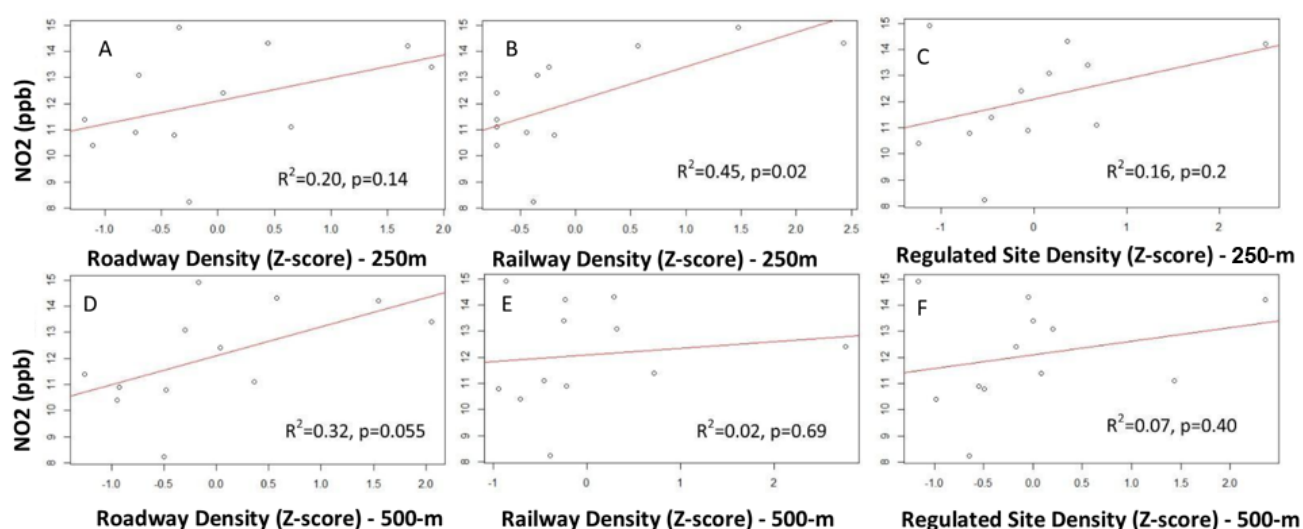




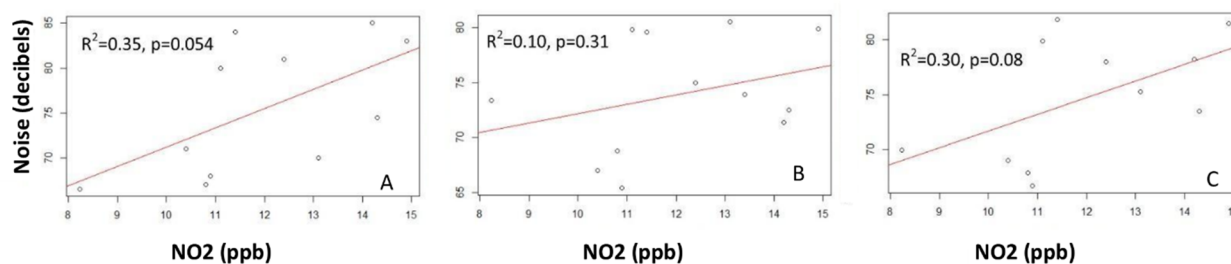
## Supplemental Materials

**Table S1.** Air pollution and noise pollution measurement results.

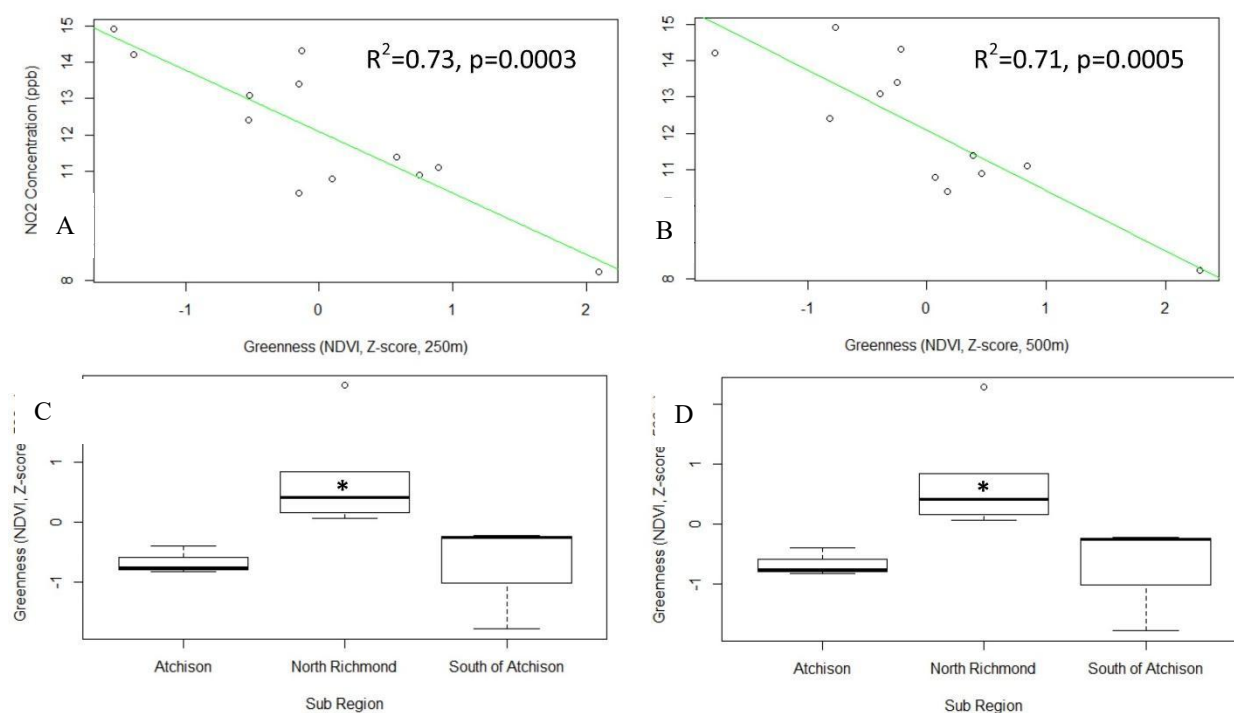
Sample Site	Sampling Dates	NO <sub>2</sub> (ppb)	SO <sub>2</sub> (ppb)	1st Spot Noise (dB)	2nd Spot Noise (dB)	Average Spot Noise (dB)
1	12/21-1/15	13.4	0.04	-	73.9	73.9
2	12/21-1/15	14.3	0.02	74.5	72.5	73.5
3	12/21-1/15	14.2	0.13	85.0	71.4	78.2
4	12/21-1/15	14.9	0.07	83.0	79.9	81.5
5	12/21-1/15	13.1	ND	70.0	80.5	75.3
6	12/21-1/15	12.4	ND	81.0	75.0	78.0
7	12/22-1/15	11.1	0.03	80.0	79.8	79.9
8	12/22-1/15	8.2	0.04	66.5	73.4	70.0
9	12/22-1/15	10.4	0.14	71.0	67.0	69
10	12/22-1/15	11.4	0.10	84.0	79.6	81.8
11	12/22-1/15	10.9	0.01	68.0	65.4	66.7
12	12/22-1/15	10.8	0.06	67.0	68.8	67.9
Average		12.1	0.06	75.5	73.9	74.6



**Figure S1.** Scatter plots displaying the positive relationship between air pollution sources and NO<sub>2</sub> (SO<sub>2</sub> not shown because there was no evidence of a relationship between sources and SO<sub>2</sub> levels): A. Roadway density – 250-m; B. Railway density – 250-m; C. Regulated site density – 250-m; D. Roadway density – 500-m; E. Railway density – 500-m; F. Regulated site density – 500-m.



**Figure S2.** Scatter plots showing the positive relationship between NO<sub>2</sub> and spot noise measurements (SO<sub>2</sub> not shown because there was no evidence for a relationship between noise and SO<sub>2</sub>). (A) First measurement during sampler deployment; (B) Second measurement during sampler retrieval; (C) Average of both spot noise measurements.



**Figure S3.** The first row (A and B) scatter plots show the negative relationship between area-level greenness (A = 250-m buffer; B = 500-m buffer) and NO2 concentrations (SO2 not shown since there was no evidence for a relationship between greenness and SO2). Second row (C and D) boxplots indicate area-level greenness for the different neighborhoods (C = 250-m buffer; D = 500-m buffer). North Richmond has significantly ( $p < 0.05$ ) higher area-level greenness.