



APPENDIX 7

BREATHE LONDON ANALYSES USING EMISSION RATIOS

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Breathe London Analyses using Emission Ratios

The following documents discuss the evaluations using the relationship of CO₂ measurements to those of NO_x and other health-impacting pollutants. These analyses help improve both our understanding of London air quality and the modelling tools used to assess it.

7A [CERC Pollutant:CO₂ Ratio Analysis](#)

This report provides a summary of the work done by CERC to compare ratios calculated from the mobile measurements with those calculated from the emissions inventory used in Breathe London modelling. It describes the assessment methodology, results from the comparison and potential explanations for discrepancies.

7B [Report on the use of Emission Ratios using CO₂ Measurements](#)

This document describes the work by University of Cambridge to look at emission indices from Breathe London stationary data. It summarizes potential future work on emission ratios with both mobile and stationary data.

12 **Evaluation of Central London's Ultra Low Emission Zone (ULEZ) on air pollution**

This document outlines the evaluation of Breathe London and regulatory network data to understand the ULEZ impact across London. These evaluations include a comparison of NO_x:CO₂ ratios before and after the ULEZ was implemented.

13 **Mobile Hyperlocal Insights**

This document describes a summary of insights and the corresponding analysis from the data collected during the mobile monitoring campaign. This includes a discussion of pollutant:CO₂ emission ratios (pollutants include NO_x, NO₂, NO, and PM_{2.5}) at high spatial resolution (road-segment level) with key insights and use cases.