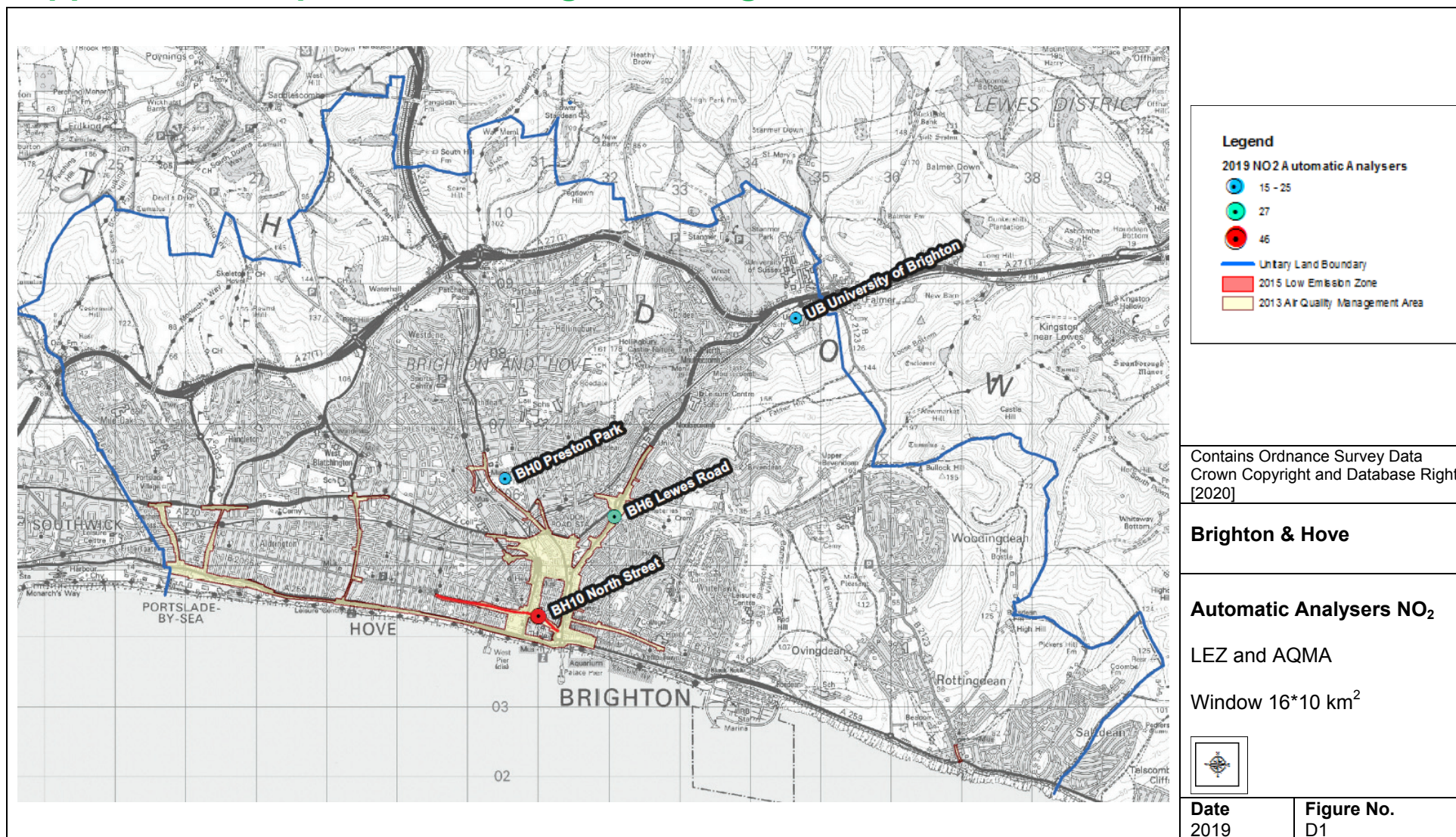
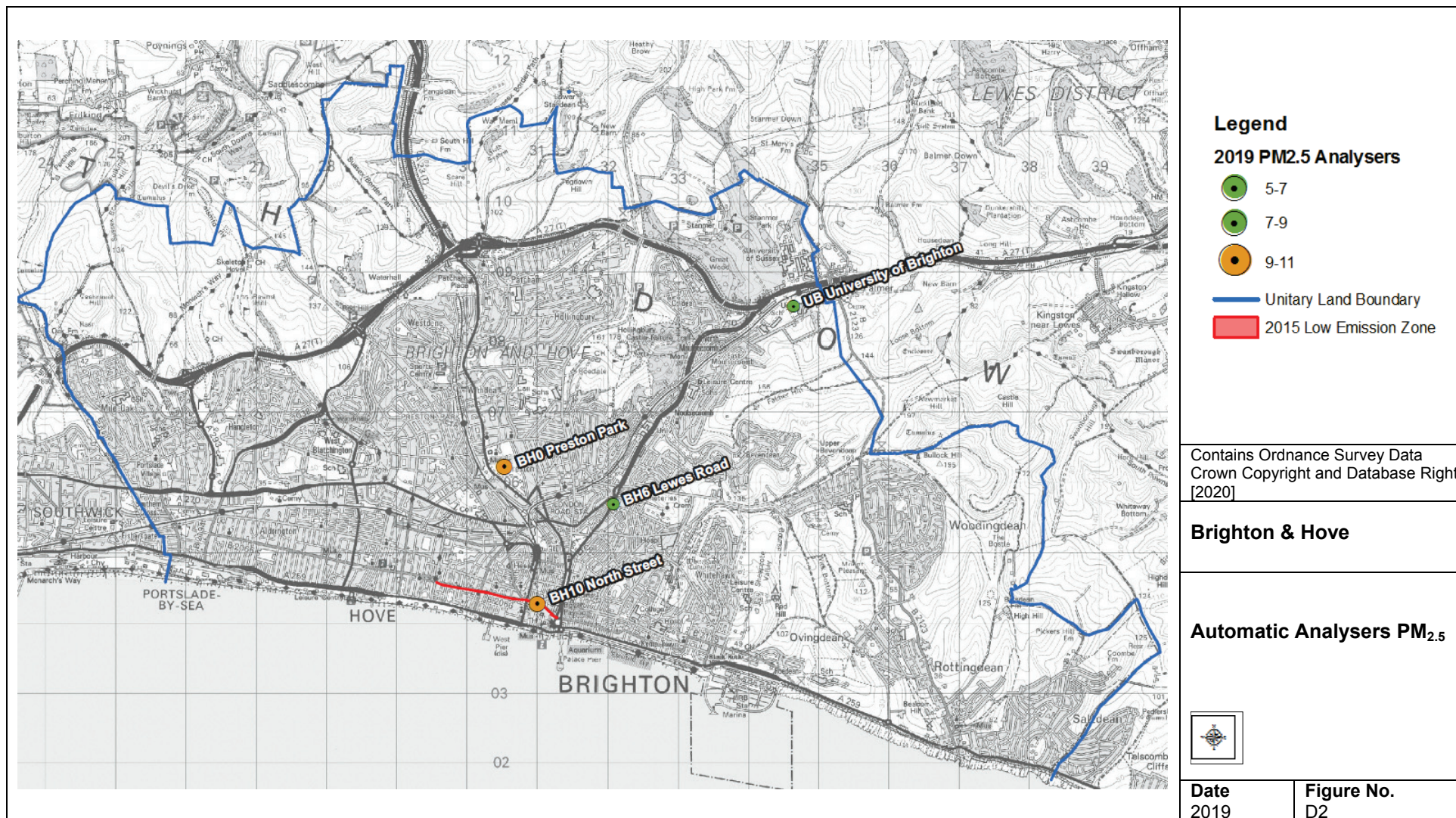
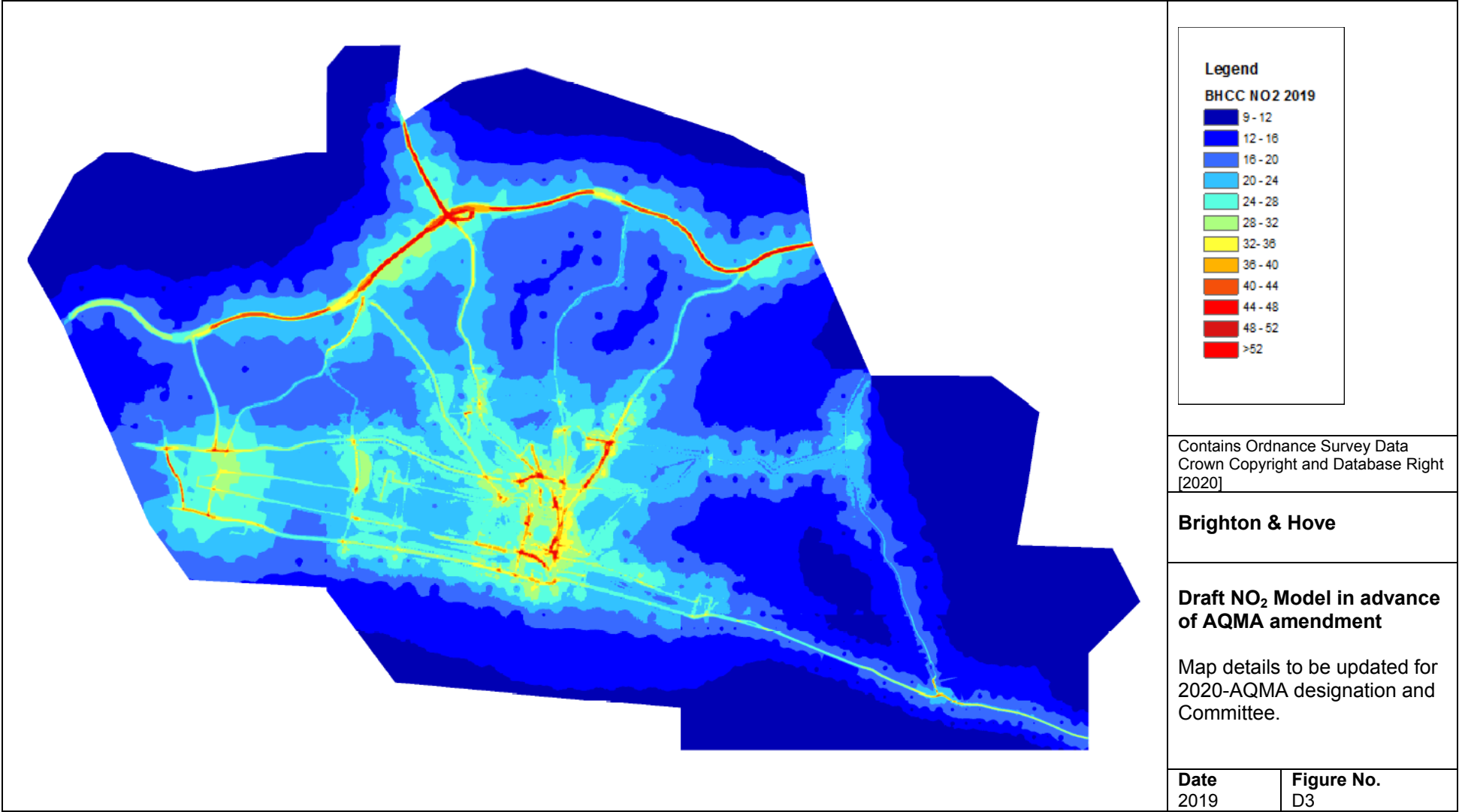
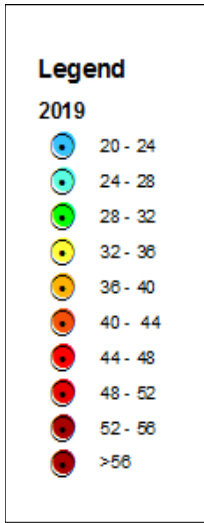
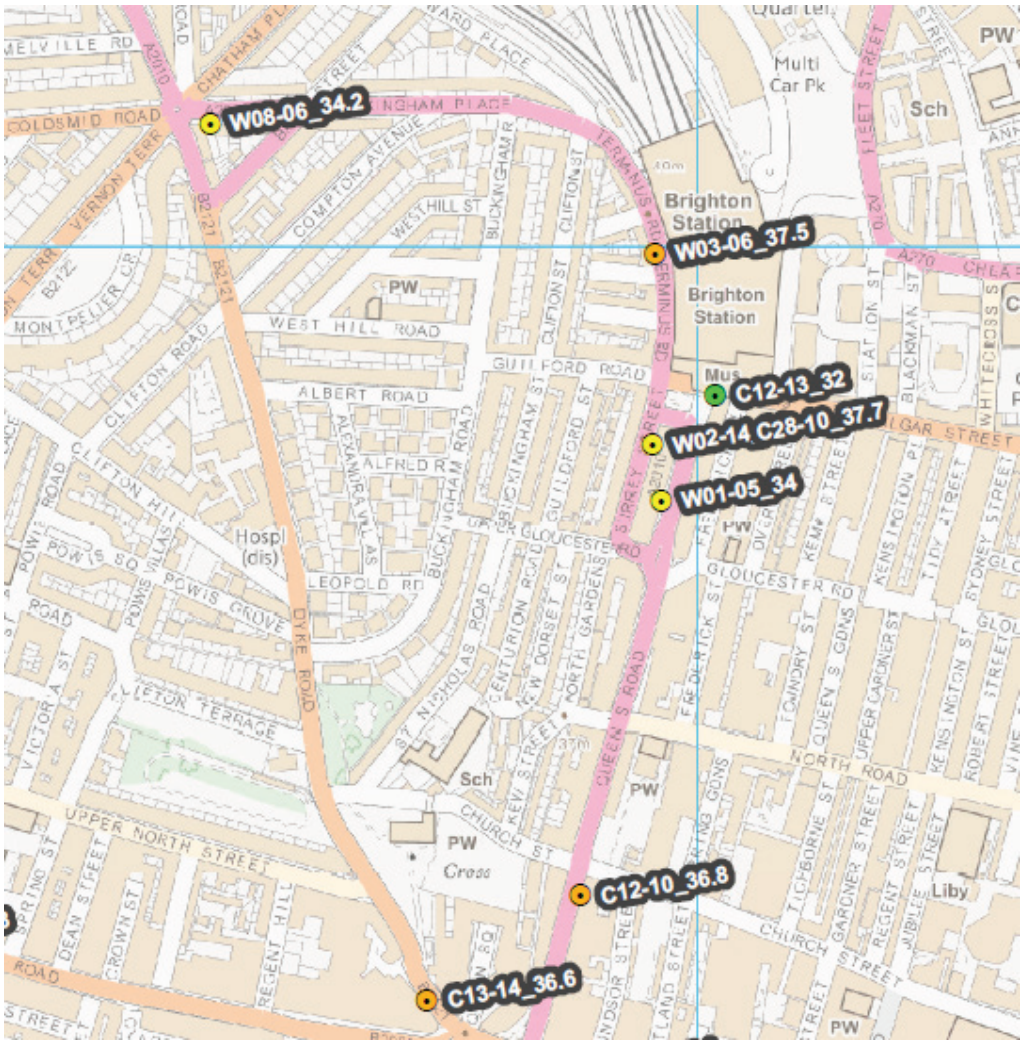


Appendix D: Maps of Monitoring Modelling and AQMAs









Contains Ordnance Survey Data
Crown Copyright and Database Right
[2020]

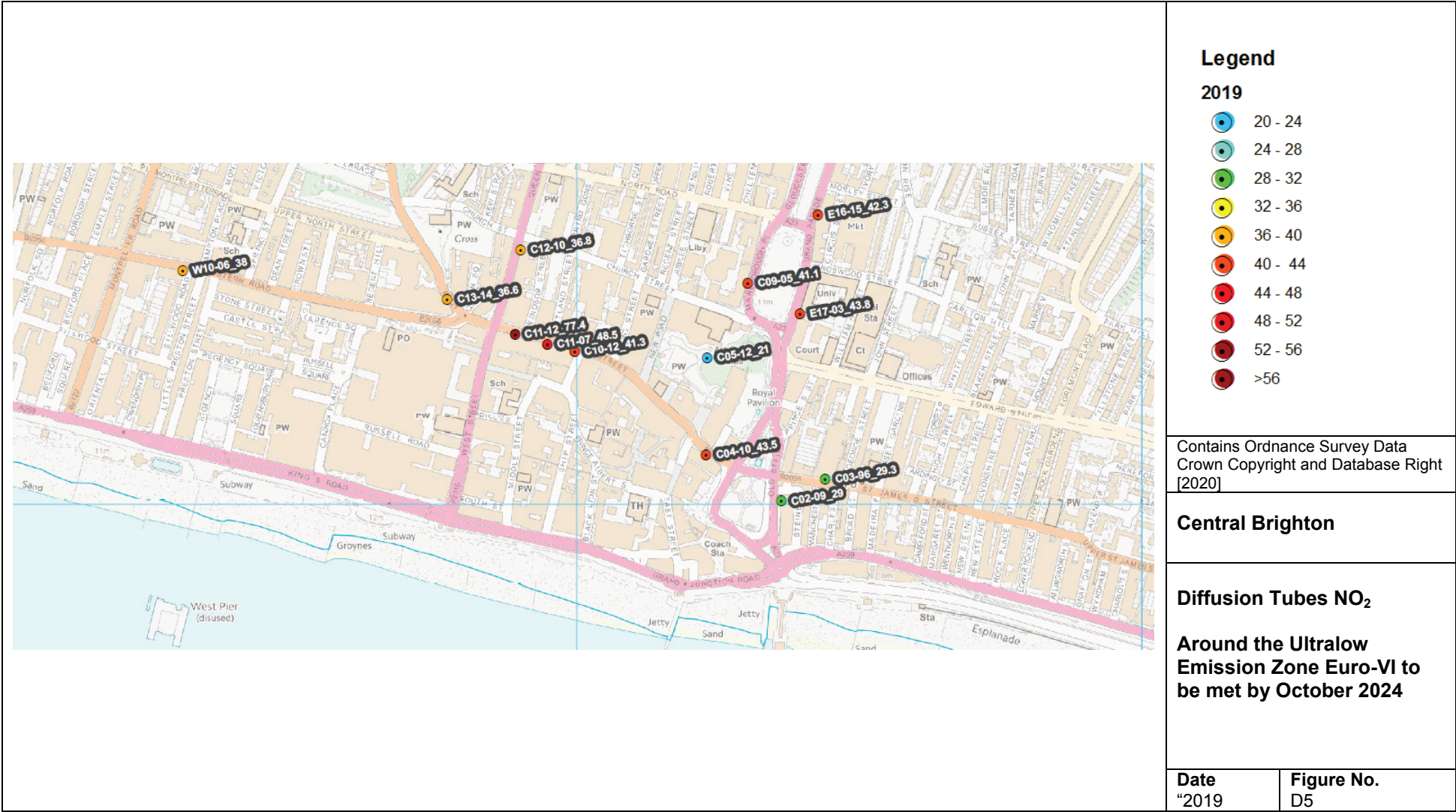
Central Brighton

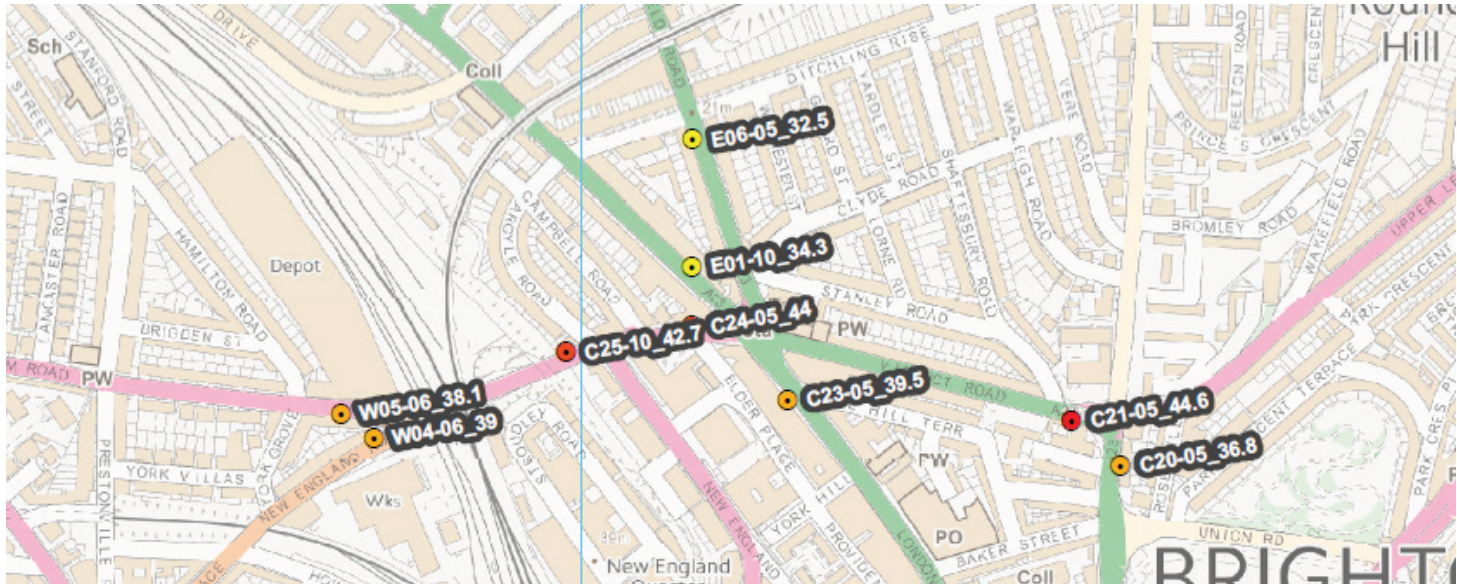
Diffusion Tubes NO₂

**A2010 Queens Road
Railway Station Frontage
Seven Dials**

Labels include Site ID and 2019 NO₂.
All units µg/m³. Bias Corrected.
(Some labels may overlap).

Date	Figure No.
2019	D4





Legend

2019

- 20 - 24
- 24 - 28
- 28 - 32
- 32 - 36
- 36 - 40
- 40 - 44
- 44 - 48
- 48 - 52
- 52 - 56
- >56

Contains Ordnance Survey Data
Crown Copyright and Database Right
[2020]

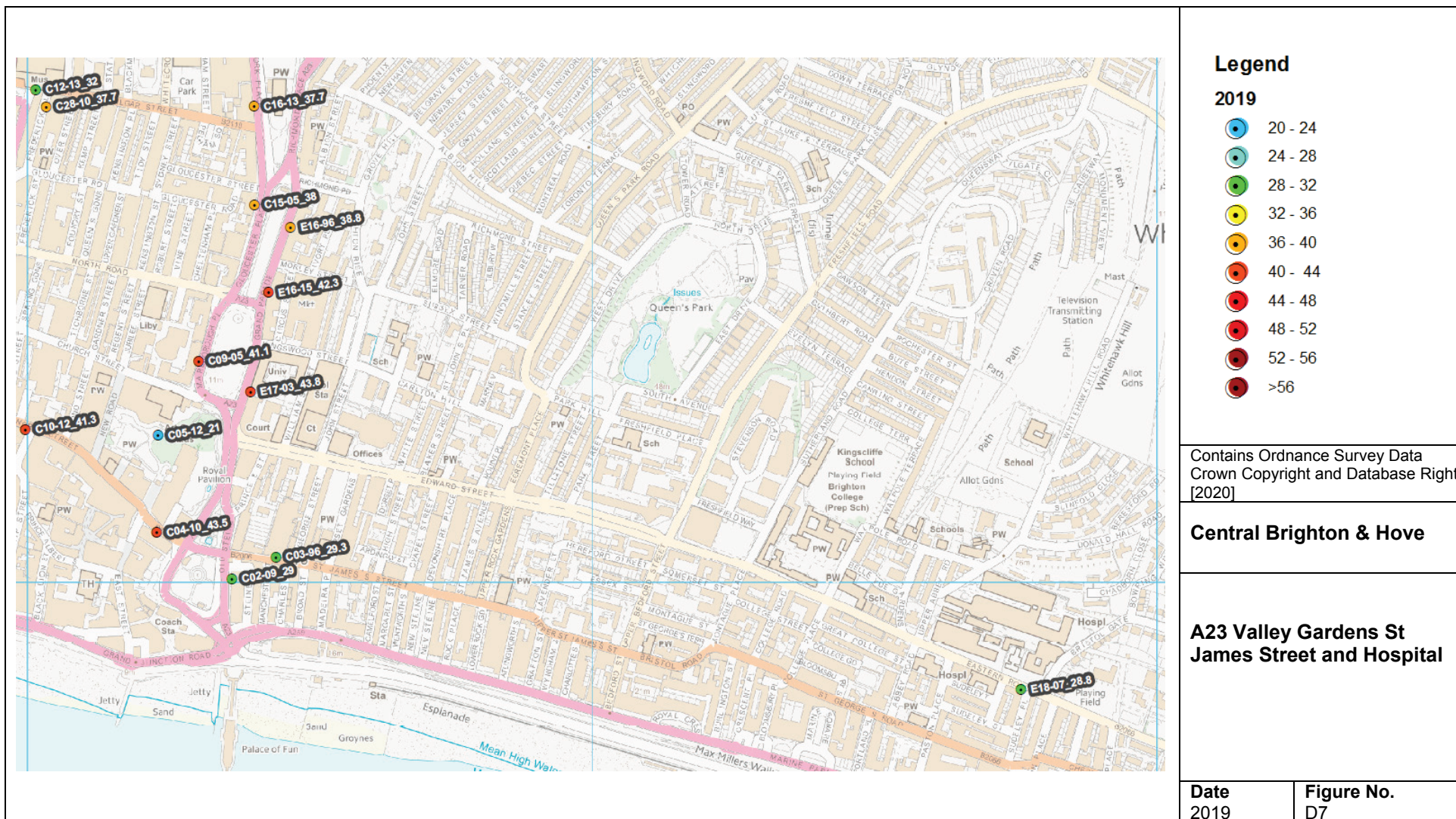
Central Brighton

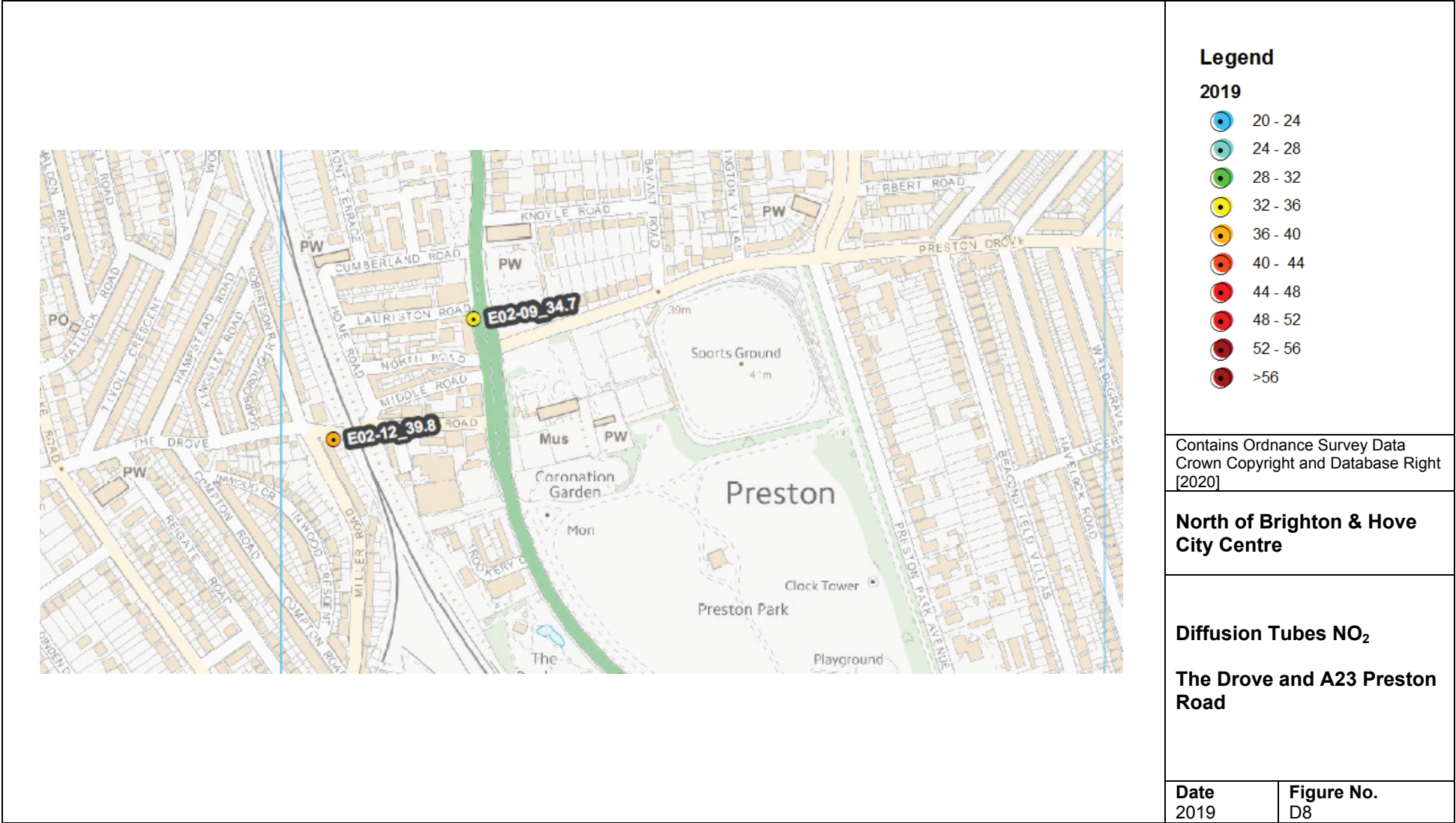
Diffusion Tubes NO₂

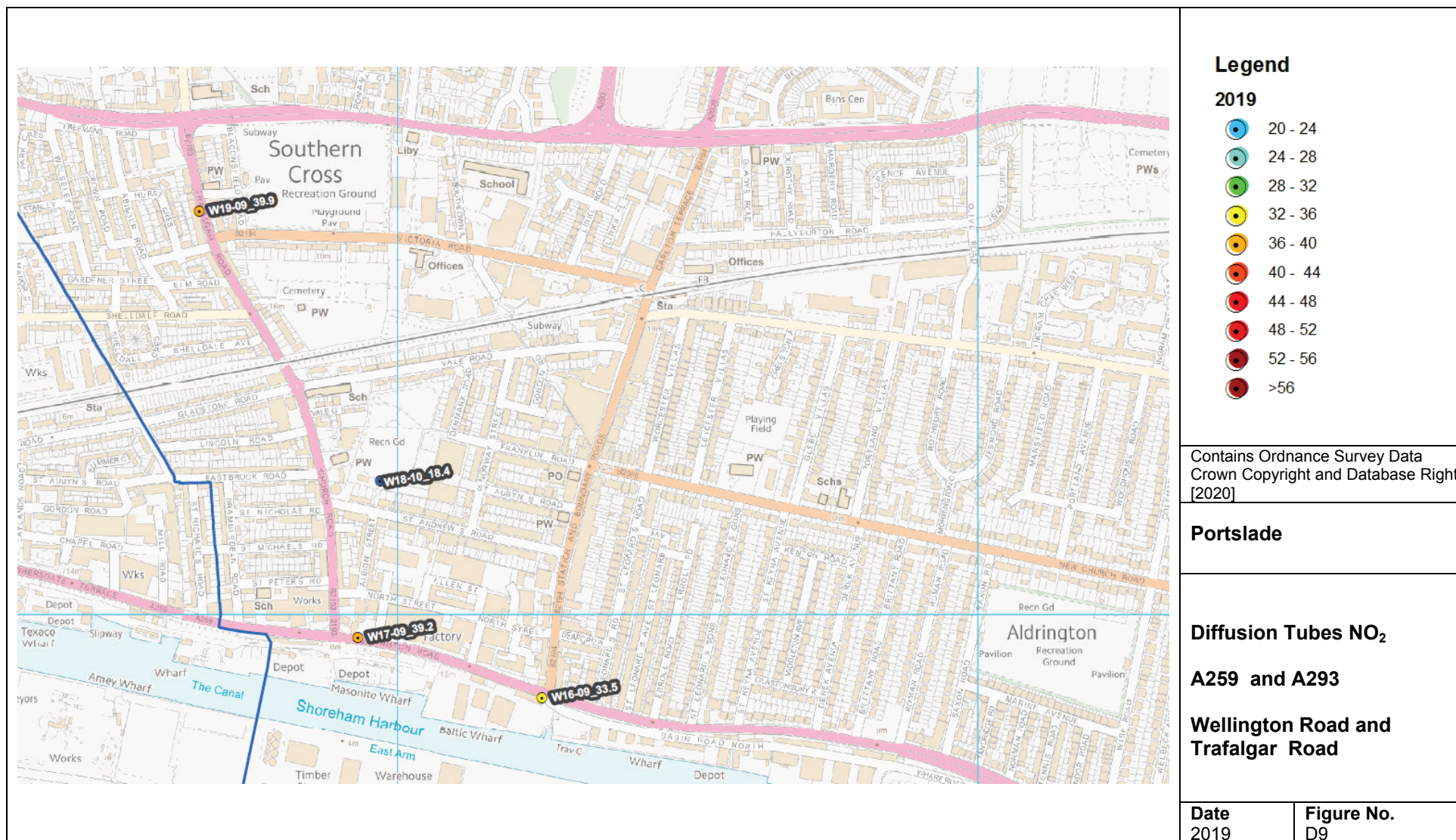
**A270 & A23 New England
Road and Preston Circus**

Date
2019

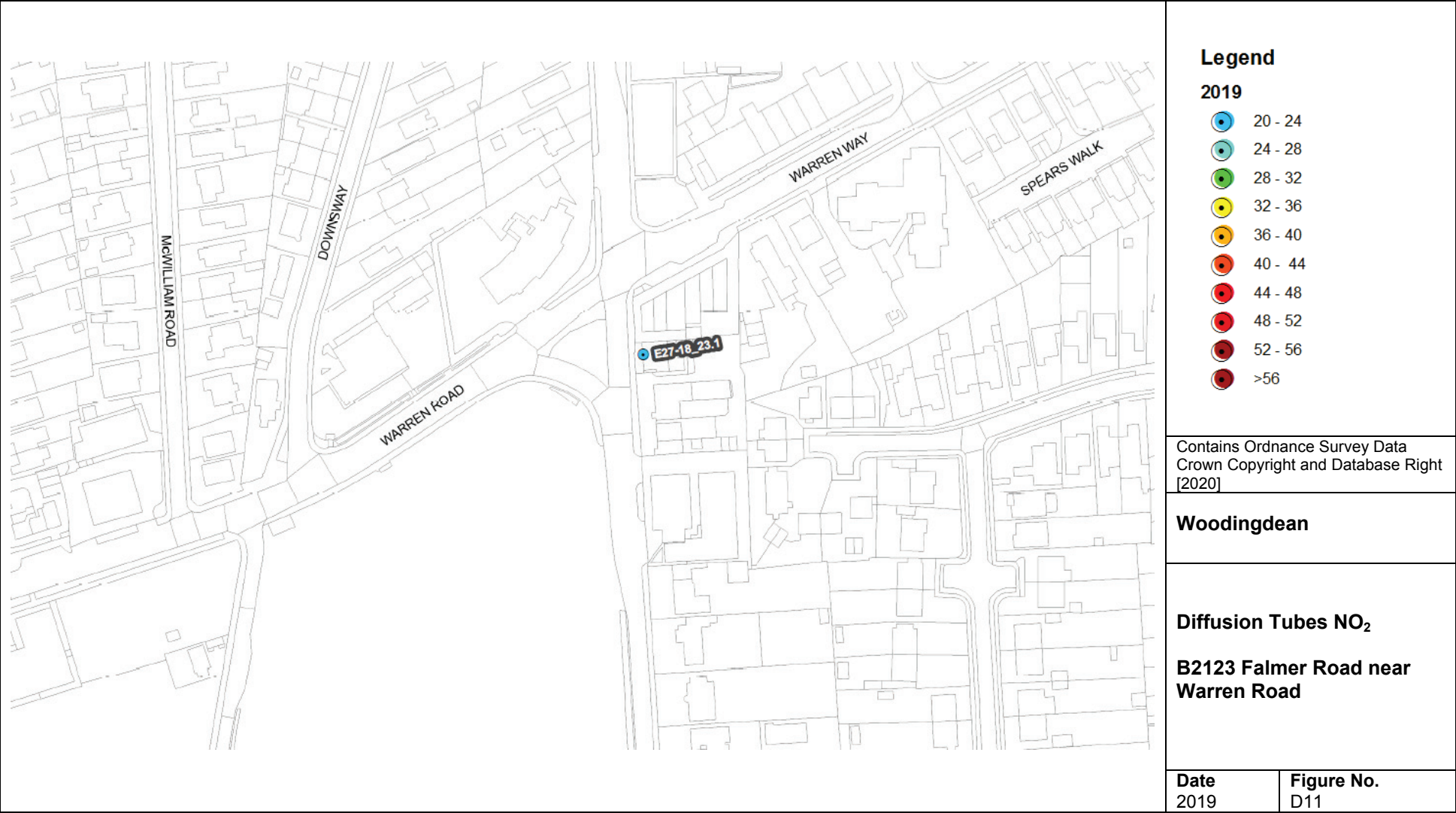
Figure No.
D6











Appendix E: Summary of Air Quality Objectives in England

Table E.1 – Air Quality Objectives in England

Pollutant	Air Quality Standard ²⁶	
	Concentration	Measured as
Nitrogen Dioxide (NO ₂)	200 µg/m ³ not to be exceeded more than 18 times a year	1-hour mean
	40 µg/m ³	Annual mean
Particulate Matter (PM ₁₀)	50 µg/m ³ , not to be exceeded more than 35 times a year	24-hour mean
	40 µg/m ³	Annual mean
Sulphur Dioxide (SO ₂)	350 µg/m ³ , not to be exceeded more than 24 times a year	1-hour mean
	125 µg/m ³ , not to be exceeded more than 3 times a year	24-hour mean
	266 µg/m ³ , not to be exceeded more than 35 times a year	15-minute mean

Glossary of Terms

Abbreviation	Description
ADMS-Urban	Atmospheric Dispersion Model System
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the local authority intends to achieve air quality limit values'
AQMA	Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives
ASR	Air Quality Annual Status Report
ATC	Automatic Traffic Counter
AURN	UK Automatic Urban Rural air Monitoring Network
CAZ	Clean Air Zone
CEMP	Construction Environment Management Plans
COMEAP	Committee on the Medical Effects of Air Pollutants
Defra	Department for Environment, Food and Rural Affairs
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges – Air quality screening tool produced by Highways England
EFT	Emission Factor Toolkit
EMIT	Atmospheric Emissions Inventory Toolkit
EU	European Union
HGV	Heavy Goods Vehicle
LAQM	Local Air Quality Management
LAQM (TG)16	LAQM Technical Guidance 2016
LAQM (PG)16	LAQM Policy Guidance 2016

LGV	Light Goods Vehicle
NRMM	Non Road Mobile Machinery
NAEI	National Atmospheric Emissions Inventory
NO ₂	Nitrogen Dioxide
NO _x	Oxides of Nitrogen usually an emission rather than an outdoor concentration
NPL	National Physical Laboratory
PHE	Public Health England
PHOF	Public Health Outcomes Framework
PM ₁₀	Airborne particulate matter with an aerodynamic diameter of 10µm (micrometres or microns) or less
PM _{2.5}	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
QA/QC	Quality Assurance and Quality Control
SCA	Smoke Control Zone
Section 106	Section 106 Planning Agreement Under Town and Country Planning Act
SO ₂	Sulphur Dioxide
ULEZ	Ultralow Emissions Zone

References

- ¹ Environmental equity, air quality, socioeconomic status and respiratory health, 2010
- ² Air quality and social deprivation in the UK: an environmental inequalities analysis, 2006
- ³ Defra. Abatement cost guidance for valuing changes in air quality, May 2013
- ⁴ Defra Appraisal damage costs updated 2020 found at:
<https://www.gov.uk/government/publications/assess-the-impact-of-air-quality/air-quality-appraisal-damage-cost-guidance>
- ⁵ Air Quality Management Areas at the time of writing <https://uk-air.defra.gov.uk/aqma/list>
- ⁶ Declared under Part IV of the Environment Act 1995
- ⁷ Declared under the Clean Air Act 1968, 1993 and any subsequent amendments
- ⁸ Defra Policy Guidance on Local Air Quality Management 2016
- ⁹ Brighton Bike Share <https://www.btnbikeshare.com/>
- ¹⁰ "Bricycles" Brighton and Hove Cycling Campaign <https://bricycles.org.uk/>
- ¹¹ Breath in Brighton found at: <https://www.bpec.org/index.php/our-blog/176-breathe-in-brighton-2019>
- ¹² British Lung Foundation found at: <https://www.blf.org.uk/support-for-you/air-pollution>
- ¹³ British Heart Foundation found at: <https://www.bhf.org.uk/what-we-do/our-research/risk-factor-research/air-pollution-research>
- ¹⁴ Brighton & Hove extant AQMAs last declared 2013 found at: https://new.brighton-hove.gov.uk/sites/default/files/2020-03/2013_AQMA_Order.pdf for review 2020
- ¹⁵ Brighton & Hove JSNA found at: <http://www.bhconnected.org.uk/content/needs-assessments>
- ¹⁶ Public Health Outcomes Framework, Public Health England found at: <https://fingertips.phe.org.uk/profile/public-health-outcomes-framework>
- ¹⁷ Please think twice about fires found at: <https://new.brighton-hove.gov.uk/news/2020/please-think-twice-about-fires-indoors-or-outdoors>
- ¹⁸ National Automatic Rural Urban monitoring Network found at: https://uk-air.defra.gov.uk/data/data_selector
- ¹⁹ Defra Bias Adjustment for diffusion tubes found at: <https://laqm.defra.gov.uk/bias-adjustment-factors/bias-adjustment.html>
- ²⁰ Fall-off with distance correction criteria is provided in paragraph 7.77, LAQM.TG(16)
- ²¹ Defra Local Air Quality Management Technical Guidance 2016 found at: <https://laqm.defra.gov.uk/documents/LAQM-TG16-February-18-v1.pdf>
- ²² The UK Air Quality Index sets out moderate and high thresholds found at: <https://uk-air.defra.gov.uk/air-pollution/daqi?view=more-info&pollutant=pm25#pollutant>
- ²³ The World Health Organisation Air quality guidelines for PM, ozone, nitrogen dioxide and sulphur dioxide found at: https://apps.who.int/iris/bitstream/handle/10665/69477/WHO_SDE_PHE_OEH_06.02_eng.pdf?sequence=1
- ²⁴ University of Brighton monitoring station data available from: <https://tools.brighton.ac.uk/air-quality/display/last-30-days>
- ²⁵ 2019 National Bias Correction Factors for Diffusion Tubes June-2020 update found at: <https://laqm.defra.gov.uk/bias-adjustment-factors/national-bias.html>
- ²⁶ The units are in microgrammes of pollutant per cubic metre of air ($\mu\text{g}/\text{m}^3$).