London Borough of Barking and Dagenham

Air Quality Annual Status Report for 2025

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Contact details:

This report provides a detailed overview of air quality in London Borough of Barking and Dagenham during 2025. It has been produced to meet the requirements of the London Local Air Quality Management (LLAQM) statutory process[1].

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[1] LLAQM Policy and Technical Guidance 2019 (LLAQM.TG(19))

Executive Summary: Air Quality in Our Area

From the latest air quality monitoring report, none of the main pollutants of concern exceeded the annual AQ objectives whilst the trend of reduction or stability has also continued to be consistent over the last 3 years. There are no changes to the Council existing AQMAs whilst our revised AQAP (2026 – 2031), containing new priorities and measures for addressing air quality and challenges, is currently in production.

Within the last 5 years, the Authority has increased the number of passive monitoring locations from 8 to 48 and completed the majority of the actions proposed in the Authority's 2020 – 2025 AQAP. At both automatic monitoring stations, the NO2 trend has remained steady over the last 3 years but, there was no decrease in concentrations over the last year, possibly because successful monitoring was only conducted for approximately half of the year. The continuous analysers for both sites were non-operational for a significant part of the year in 2025, due to them reaching end of life. Plans for identifying funding for a full technical refresh of the AQMSs will be included in the new AQAP.

Neither of the x2 automatic monitoring stations noted concentrations that exceeded the annual AQ objectives of 40 µg m-3, but they did exceed the WHO guidelines of 10 µg m-3. Therefore, the annual AQ objective has been achieved, but the WHO guidelines have not been met.

The hourly NO2 objective was achieved at both automatic monitoring locations.

None of the passive monitoring locations (diffusion tubes) exceeded the national air quality objective. The highest monthly concentration recorded was 34.16 at (DT4), the Dagenham Heathway monitoring location. All the passive NO2 monitoring locations exceeded the WHO guidelines.

At the 48 passive monitoring locations between 2021 – 2025, the NO2 concentrations downward trend has remained steady over the last four years with highest percentage of decrease being in the last monitoring year, i.e. 2025.

Only x3 monitoring locations saw a measurable increase in concentration in 2025 (DT1, DT7 & DT10).

There were no measured exceedances of the hourly NO2 objective in 2025, consistent with the results from the past seven years.

There were no measured exceedances of the annual PM10 objective in 2025 but the WHO guidelines annual mean of 15 µg m-3 was exceeded.

The PM10 trend has remained on a slow downward trajectory over the past 7 years and has continued to fall in concentration.

The 24-hour mean AQ objective for PM10 was not exceeded in 2025 and the WHO guidelines of 45 µg m-3, no more than 3-4 times a year, was not exceeded.

None of the SO2 objectives were exceeded for the year 2025. The WHO guidelines were also achieved.

This was the second full year of monitoring at all the 48 passive monitoring (diffusion tube) locations. In 2025, the Authority achieved 100% data capture at 37 of the 48 monitoring locations, 91.7% at 9 locations and 83.3% at the remaining 2 locations. Meaning 100% data capture at 77% of all our monitoring locations was recorded, compared to about 50% in 2024. This was a significant increase in coverage and an increase in the reliability of the results.

There are 20 sites in the borough registered on the GLA's NRMM website for the year 2025. 34 sites were subject to audit visits during the year. 15 of the audited sites were compliant, 4 were non-compliant, 2 sites had no NRMM on site, 5 were inappropriate for audit, 1 site had no apparent ongoing work, and development had completed at the remaining 7 sites.

In 2025, The LBBD Environmental Protection team reviewed 21 air quality impact assessments related to planning applications, with the same number of developments being required to undertake actions to make them AQ Positive, AQ Neutral, and/or to provide transport impact assessments. 2 applications were required to include additional mitigation because AQ Neutral building and/or transport assessments did not meet the benchmark, and 7 planning applications were recommended to undertake other requirements to improve air quality through S106 agreements. 19 developments were required to undertake construction dust monitoring and reporting.

Air Quality in London Borough of Barking and Dagenham

Breathing in polluted air affects human health and costs the NHS and our society billions of pounds each year. Air pollution is recognised as a contributing factor in the onset of heart disease and cancer and can cause a range of health impacts, including effects on lung function, exacerbation of asthma, increases in hospital admissions and reduced mortality.

Air pollution particularly affects the most health-vulnerable, such as children, the elderly, and those with existing heart and lung conditions and related morbidities. Low-income communities are disproportionately impacted by poor air quality, exacerbating health and social inequalities.

Table ES 1 provides a brief explanation of the key pollutants relevant to Local Air Quality Management and the kind of activities they might arise from.

Table ES 1 - Description of Key Pollutants

Pollutant	Description
Nitrogen Dioxide (NO_2)	Nitrogen dioxide is a gas which is generally emitted from high temperature combustion processes such as road transport or energy generation.
Sulphur Dioxide (SO_2)	Sulphur dioxide (SO_2) is a corrosive gas which is predominantly produced from the combustion of coal or crude oil.
Particulate Matter (PM_{10} and $PM_{2.5}$)	Particulate matter is everything in the air that is not a gas. Particles can come from natural sources such as pollen, as well as human made sources such as smoke from fires, emissions from industry and dust from tyres and brakes. PM_{10} refers to particles under 10 micrometres. Fine particulate matter or $PM_{2.5}$ are particles under 2.5 micrometres.

Actions to Improve Air Quality

Whilst air quality in Barking and Dagenham, and across the capital, has improved significantly in recent years, there remain some locations where local action is needed to protect people and the environment from the effects of air pollution.

Conclusions and Priorities

The Authority measured no exceedance of the National UK Air Quality objectives for any relevant pollutant in 2025. Other than the planned closure of the A13 to demolish and renew the Lodge Flyover, there are currently no new developments, of which we are currently aware, that will have a major impact on the air quality of the borough moving forward.

The Authority is currently working on producing the Borough's Air Quality Action Plan for 2026 – 2031, which will detail how the local authority plan to continue to improve air quality over the next 5 years.

How to get Involved

In developing/updating the Air Quality Action Plan the Authority has collaborated with other local authorities, agencies, businesses, pressure groups, and the local community to generate ideas and action to further improve local air quality. We have also engaged all appropriate council departments and services. The consultation period will open in the Autumn of 2026.

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Abbreviations

Abbreviation	Description
AQAP	Air Quality Action Plan
AQMA	Air Quality Management Area
AQMS	Air Quality Monitoring Station
AQN	Air Quality Neutral
AQO	Air Quality Objective
AQP	Air Quality Positive
BEB	Buildings Emission Benchmark
EV	Electric Vehicle
GLA	Greater London Authority
LAEI	London Atmospheric Emissions Inventory
LAQM	Local Air Quality Management
LLAQM	London Local Air Quality Management
NRMM	Non-Road Mobile Machinery
PM_{10}	Particulate matter less than 10 micron in diameter
$PM_{2.5}$	Particulate matter less than 2.5 micron in diameter
TEB	Transport Emissions Benchmark
TfL	Transport for London

Table A. Summary of National Air Quality and International Standards, Objectives and Guidelines

Pollutant	Standard / Objective / Guideline	Averaging Period	Date[1]
Nitrogen dioxide (NO_2)	200 µg m^{-3} not to be exceeded more than 18 times a year	1-hour mean	31 Dec 2005
Nitrogen dioxide (NO_2)	40 µg m^{-3}	Annual mean	31 Dec 2005
Nitrogen dioxide (NO_2)	WHO AQG[2]: 10 µg m^{-3}	Annual mean	
Particles (PM_{10})	50 µg m^{-3} not to be exceeded more than 35 times a year	24-hour mean	31 Dec 2004
Particles (PM_{10})	WHO AQG[2]: 45 µg m^{-3} not to be exceeded more than 3-4 times a year	24-hour mean	
Particles (PM_{10})	40 µg m^{-3}	Annual mean	31 Dec 2004
Particles (PM_{10})	WHO AQG[2]: 15 µg m^{-3}	Annual mean	
Particles ($PM_{2.5}$)	10 µg m^{-3}[3]	Annual mean	2040
Particles ($PM_{2.5}$)	London Mayoral Commitment[4]: 10 µg m^{-3}	Annual mean	2030
Particles ($PM_{2.5}$)	WHO AQG[2]: 5 µg m^{-3}	Annual mean	
Particles ($PM_{2.5}$)	Target of 15% reduction in concentration at urban background locations	3-year mean	Between 2010 and 2021
Particles ($PM_{2.5}$)	WHO AQG[2]: 15 µg m^{-3}	24-hour mean	
Sulphur dioxide (SO_2)	266 µg m^{-3} not to be exceeded more than 35 times a year	15-minute mean	31 Dec 2005
Sulphur dioxide (SO_2)	350 µg m^{-3} not to be exceeded more than 24 times a year	1-hour mean	31 Dec 2004
Sulphur dioxide (SO_2)	125 µg m^{-3} mot to be exceeded more than 3 times a year	24-hour mean	31 Dec 2004
Sulphur dioxide (SO_2)	WHO AQG[2]: 40 µg m^{-3} not to be exceeded more than 3-4 times a year	24-hour mean	

Notes

(1) Date by which to be achieved by and maintained thereafter.

(2) 2021 World Health Organisation Air Quality Guideline

(3) Environmental Target Regulations under the Environment Act 2021

(4) London Mayoral Commitment

1. Air Quality Monitoring

London Borough of Barking and Dagenham (LBBD) operates 2 automatic air quality monitoring stations (Table B), which are both located at suburban background locations and are within 24 and 28m respectively of relevant exposure.

1.1 Locations

Table B. Details of Automatic Monitoring Sites for 2025

Site ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA?	Which AQMA?	Monitoring Technique	Distance to Relevant Exposure (m) (1,2)	Distance to kerb of nearest road (m) (2)	Inlet Height (m)
(BG1)	Rush Green Primary School	Suburban Background	550652	186836	NO_2 SO_2	Y	1	Chemiluminescent, UV Florescence	28	50	4
(BG2)	Scrattons Farm	Suburban Background	548043	183320	NO_2 PM10	Y	1	Chemiluminescent, Teom	24	24	3.5

Notes

(1) 0m if the monitoring site is at a location of exposure (e.g. installed on the façade of a residential property). (2) N/A if not applicable

The Authority started monitoring for nitrogen dioxide by diffusion tube in 2020 at eight monitoring locations in the borough. This was increased by a further 20 locations in 2021 and we increased it again, in 2023, by another 20 monitoring locations. The Authority now has 48 passive air quality monitoring locations spread across the borough (with one being a triplicate location at Rush Green Primary School which is co-located with one of the automatic monitoring stations).

Table C below gives individual site details for 2025. All diffusion tube sites are indicative of relevant exposure from roadside, background, and suburban background sites. The diffusion tubes are located at building facades of residential properties and schools or adjacent to hotspot locations where possible.

Table C. Details of Non-Automatic Monitoring Sites for 2025

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT1	Ripple Road Primary School	Roadside	544793	183783	NO_2	Y	17	2	N	2.5
DT2	1A Westminster Gardens	Roadside	545032	183193	NO_2	Y	3	1	N	2.5
DT3	6/7 Scrattons Terrace	Roadside	547806	183543	NO_2	Y	5	1	N	2.5
DT4	291 Dagenham Heathway	Roadside	549035	184813	NO_2	Y	6	1	N	2.5
DT5	Wood Lane/Valence Avenue Junction	Roadside	547789	185792	NO_2	Y	5	2	N	2.5
DT6a	Rush Green Primary School	Suburban Background	550652	186836	NO_2	Y	28	N/A	Y	1.5
DT6b	Rush Green Primary School	Suburban Background	550652	186836	NO_2	Y	28	N/A	Y	1.5

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) [1]	Distance to kerb of nearest road (m) [2]	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT6c	Rush Green Primary School	Suburban Background	550652	186836	NO2	Y	28	N/A	Y	1.5
DT7	Whalebone Lane South/Whalebone North/High Road Junction	Roadside	548544	188125	NO2	Y	2	2	N	2.5
DT8	Outside No. 31 Eastern Avenue West (the A12)	Roadside	548359	189057	NO2	Y	3	12	N	2.5
DT9	St Pauls Way (Beside Abbey Green Play Area)	Roadside	544128	183662	NO_2	Y	3	2	N	2.5
DT10	Glenny Road	Roadside	544385	184565	NO_2	Y	3	2	N	2.5
DT11	209 New Road (A1306)	Roadside	549832	183208	NO_2	Y	5	2	N	2.5
DT12	40 – 38 Thames Road	Roadside	546501	182713	NO_2	Y	5	2	N	2.5
DT13	2 Choats Road	Roadside	547081	183053	NO_2	Y	5	2	N	2.5
DT14	High Road (Chadwell Health) A118	Roadside	548065	187998	NO_2	Y	5	2	N	2.5
DT15	102 Renwick Road	Roadside	546935	183135	NO_2	Y	6	2	N	2.5
DT16	1 River Road	Roadside	545296	183204	NO_2	Y	5	2	N	2.5
DT17	95 Bastable Avenue	Roadside	545842	183144	NO_2	Y	5	2	N	2.5
DT18	463 Lodge Avenue	Roadside	546415	183717	NO_2	Y	5	2	N	2.5

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) [1]	Distance to kerb of nearest road (m) [2]	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT19	835a Longbridge Road (A124)	Roadside	546744	185774	NO_2	Y	5	2	N	2.5
DT20	1 Althorne Way/ Wood Lane (A124)	Roadside	549173	186755	NO_2	Y	3	1	N	2.5
DT21	217 Whalebone Lane South (A1112)	Roadside	548733	187586	NO_2	Y	6	2	N	2.5
DT22	1249 Chequers Lane	Roadside	549078	183327	NO_2	Y	6	1	N	2.5
DT23	623 Rainham Road South	Roadside	550263	184902	NO_2	Y	5	2	N	2.5
DT24	Cook Road	Roadside	548487	183557	NO_2	Y	20	2	N	2.5
DT25	Fiske Court, Kings Edward's Road (Adjacent to A13)	Roadside	544699	183650	NO_2	Y	6	1	N	2.5
DT26	251 Valence Avenue	Roadside	547762	186888	NO_2	Y	5	1	N	2.5
DT27	145 Fanshawe Avenue	Roadside	544339	184702	NO_2	Y	5	1	N	2.5
DT28	102 Maplestead Road	Roadside	546731	183684	NO_2	Y	5	1	N	2.5
DT29	143 Grafton Road	Roadside	548422	186431	NO_2	Y	2	5	N	2.5
DT30	947 Longbridge Road	Roadside	544631	184553	NO_2	Y	3	1	N	2.5
DT31	St Vincent's Catholic Primary School	Roadside	547209	186599	NO_2	Y	10	1	N	2.5

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) [1]	Distance to kerb of nearest road (m) [2]	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT32	Opposite 131 Upney Lane	Roadside	545942	184073	NO_2	Y	10	2	N	2.5
DT33	196 Longbridge Road	Roadside	545124	184935	NO_2	Y	7	2	N	2.5
DT34	150 London Road (Opposite Shell Petrol Station)	Roadside	554097	184196	NO_2	Y	2	1	N	2.5
DT35	29 London Road	Roadside	544206	184158	NO_2	Y	5	1	N	2.5
DT36	39 Alfred's Gardens	Roadside	545536	183446	NO_2	Y	5	1	N	2.5
DT37	Gascoigne Wharf, Alfreds Way, (Opposite Bestway)	Roadside	544667	183104	NO_2	Y	5	1	N	2.5
DT38	6 William Hope Close	Suburban Background	545495	183310	NO_2	Y	10	N/A	N	2.5
DT39	308 Lodge Avenue	Roadside	546618	184605	NO_2	Y	8	1	N	2.5
DT40	50 Markyate Road	Roadside	546968	185087	NO_2	Y	6	1	N	2.5
DT41	Goresbroook School, Cook Road	Roadside	548056	183606	NO_2	Y	10	2	N	2.5
DT42	60 Arnold Road	Roadside	548974	184041	NO_2	Y	5	2	N	2.5
DT43	Connections, Shankar Road, House of Faith	Roadside	549537	183284	NO_2	Y	10	2	N	2.5
DT44	Leys Infants School, 9 Leys Avenue	Roadside	550508	184123	NO_2	Y	7	2	N	2.5

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT45	463 Rainham Road South	Roadside	550289	184928	NO_2	Y	8	1	N	2.5
DT46	116 Albion Road	Roadside	548935	185402	NO_2	Y	7	2	N	2.5
DT47	830 Dagenham Road	Roadside	550002	185912	NO_2	Y	8	1	N	2.5
DT48	65 Marston Avenue	Roadside	549154	186114	NO_2	Y	6	1	N	2.5

Notes

(1) 0m if the monitoring site is at a location of exposure (e.g. installed on the façade of a residential property).

(2) N/A if not applicable.

1.2 Comparison of Monitoring Results with AQOs

Table D. Annual Mean NO_2 Monitoring Results: Automatic Monitoring (µg m^{-3})

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid data capture for monitoring period %[a]	Valid data capture 2025 %[b]	2019	2020	2021	2022	2023	2024	2025
(BG1)	551053	187233	Suburban Background	57	-	-	-	17	17	16	15	15.5
(BG2)	548043	183320	Suburban Background	37	-	-	-	20	21	18	18	19.7

Notes

The annual mean concentrations are presented as µg m^{-3}.

Exceedances of the NO_2 annual mean AQO of 40 µg m^{-3} are shown in **bold**.

NO_2 annual means in excess of 60 µg m^{-3}, indicating a potential exceedance of the NO_2 hourly mean AQS objective are shown in **bold and underlined**.

Means for diffusion tubes have been corrected for bias.

All means have been "annualised" in accordance with LLAQM Technical Guidance if valid data capture for the calendar year is less than 75% and greater than 25%.

Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

(a) Data capture for the monitoring period, in cases where monitoring was only conducted for part of the year.

(b) Data capture for the full calendar year (e.g. if monitoring was conducted for six months the maximum data capture for the full calendar year would be 50%).

At both (LBBD) automatic monitoring station, the NO_2 trend remains steady in the last three years. There was no decrease in the concentration of the last year's monitoring result, possibly because of the monitoring only being conducted between months 5 and 8 months for the year. The analysers for both sites were non-operational for significant periods of time in 2025 due to persistent breakdown issues and a lack of suitable parts.

Table E. Annual Mean NO_2 Monitoring Results: Non-Automatic Monitoring (µg m^{-3})

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) ([1])	Valid Data Capture 2025 (%) ([2])	2019	2020	2021	2022	2023	2024	2025
DT1	544793	183783	Roadside	-	83.3	-	28.5	30.05	29.76	27.1	24.52	25.13
DT2	545032	183193	Roadside	-	100.0	-	26.7	28.88	24.07	23.2	22.95	20.78
DT3	547806	183543	Roadside	-	100.0	-	29.0	30.88	28.63	26.8	26.29	24.47
DT4	549035	184813	Roadside	-	100.0	-	37.3	**41.65**	39.57	38.7	39.10	34.16
DT5	547789	185792	Roadside	-	100.0	-	31.1	38.94	35.12	31.0	29.04	27.56
DT6a	550652	186836	Urban Background	-	100.0	-	19.8	17.11	13.58	13.4	12.69	12.36
DT6b	550652	186836	Urban Background	-	100.0	-	19.8	18.01	13.47	13.3	13.23	12.30
DT6c	550652	186836	Urban Background	-	100.0	-	19.8	15.18	13.50	13.1	13.07	12.01
DT7	548544	188125	Roadside	-	91.7	-	29.8	34.35	30.80	27.5	25.86	26.13
DT8	548359	189057	Roadside	-	100.0	-	26.8	31.68	27.69	25.3	24.29	23.55
DT9	544128	183662	Roadside	-	100.0	-	-	28.88	27.00	24.3	21.62	20.16
DT10	544385	184565	Roadside	-	100.0	-	-	25.91	24.47	23.8	23.69	24.49
DT11	549832	183208	Roadside	-	100.0	-	-	31.34	28.08	27.1	25.34	22.65
DT12	546501	182713	Roadside	-	100.0	-	-	26.51	23.40	24.4	21.67	20.38
DT13	547081	183053	Roadside	-	100.0	-	-	28.66	21.69	20.2	18.98	18.66
DT14	548065	187998	Roadside	-	100.0	-	-	32.02	32.98	33.2	28.59	24.88
DT15	546935	183135	Roadside	-	100.0	-	-	28.25	21.64	20.5	19.55	18.82
DT16	545296	183204	Roadside	-	91.7	-	-	34.63	34.86	30.9	29.62	29.22
DT17	545842	183144	Roadside	-	100.0	-	-	25.63	23.32	20.9	20.25	19.75
DT18	546415	183717	Roadside	-	91.7	-	-	39.09	36.83	34.4	32.91	32.62
DT19	546744	185774	Roadside	-	91.7	-	-	38.98	29.53	27.2	25.18	23.94
DT20	549173	186755	Roadside	-	100.0	-	-	27.02	25.97	27.0	27.05	23.39

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2025 (%) (2)	2019	2020	2021	2022	2023	2024	2025
DT21	548733	187586	Roadside	-	100.0	-	-	37.00	35.83	31.5	30.00	28.39
DT22	549078	183327	Roadside	-	100.0	-	-	20.59	21.76	20.0	20.18	18.11
DT23	550263	184902	Roadside	-	100.0	-	-	35.18	32.78	30.1	29.35	27.18
DT24	548487	183557	Roadside	-	100.0	-	-	31.46	32.87	30.8	26.68	26.40
DT25	544699	183650	Roadside	-	100.0	-	-	39.66	37.49	35.4	**41.68**	32.82
DT26	547762	186888	Roadside	-	100.0	-	-	32.76	28.07	27.3	24.88	24.52
DT27	544339	184702	Roadside	-	100.0	-	-	32.61	29.25	26.6	26.36	25.08
DT28	546731	183684	Roadside	-	100.0	-	-	31.91	30.79	29.0	28.00	25.31
DT29	548422	186431	Roadside	-	100.0	-	-	-	-	18.4	15.80	15.55
DT30	544631	184553	Roadside	-	100.0	-	-	-	-	24.5	21.85	19.40
DT31	547209	186599	Roadside	-	100.0	-	-	-	-	19.4	16.95	16.14
DT32	545942	184073	Roadside	-	83.3	-	-	-	-	24.4	22.22	21.46
DT33	545124	184935	Roadside	-	100.0	-	-	-	-	23.5	20.85	20.89
DT34	554097	184196	Roadside	-	100.0	-	-	-	-	37.7	27.72	24.62
DT35	544206	184158	Roadside	-	100.0	-	-	-	-	32.1	30.17	29.06
DT36	545536	183446	Roadside	-	91.7	-	-	-	-	27.3	24.72	24.08
DT37	544667	183104	Roadside	-	100.0	-	-	-	-	29.2	26.81	24.34
DT38	545495	183310	Urban Background	-	91.7	-	-	-	-	22.8	21.52	20.47
DT39	546618	184605	Roadside	-	100.0	-	-	-	-	29.9	26.57	24.89
DT40	546968	185087	Roadside	-	100.0	-	-	-	-	19.7	16.71	16.17
DT41	548056	183606	Roadside	-	100.0	-	-	-	-	31.9	26.55	25.06
DT42	548974	184041	Roadside	-	100.0	-	-	-	-	21.0	20.06	18.48
DT43	549537	183284	Roadside	-	100.0	-	-	-	-	25.7	24.51	21.79
DT44	550508	184123	Roadside	-	91.7	-	-	-	-	19.6	16.32	15.87
DT45	550289	184928	Roadside	-	100.0	-	-	-	-	23.9	22.83	21.35

DT46	548935	185402	Roadside	-	91.7	-	-	-	-	22.3	18.88	17.49
DT47	550002	185912	Roadside	-	100.0	-	-	-	-	30.4	27.21	25.20
DT48	549154	186114	Roadside	-	91.7	-	-	-	-	19.6	18.08	17.74

☒ **Annualisation has been conducted where data capture is <75% and >25% in line with LLAQM.TG19.**

☒ **Diffusion tube data has been bias-adjusted.**

☒ **Reported concentrations are those at the location of the monitoring site (bias adjusted and annualised, as required), i.e. prior to any fall-off with distance correction.**

Notes

The annual mean concentrations are presented as µg m^{-3}.

Exceedances of the NO_2 annual mean objective of 40µg m^{-3} are shown in **bold**.

NO_2 annual means exceeding 60µg m^{-3}, indicating a potential exceedance of the NO_2 1-hour mean objective are shown in **bold and underlined**.

Means for diffusion tubes have been corrected for bias. All means have been “annualised” in accordance with LLAQM Technical Guidance if valid data capture for the calendar year is less than 75% and greater than 25%.

Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

(1) Data capture for the monitoring period, in cases where monitoring was only conducted for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was conducted for 6 months, the maximum data capture for the full calendar year is 50%).

Neither of the two automatic monitoring stations exceeded the annual AQ objectives of 40 µg m-3 but they did exceed the WHO guidelines of 10 µg m-3. Therefore, the annual AQ objective was achieved but the WHO guidelines not met. The hourly NO2 objective was achieved at both monitoring locations.

All the diffusion tube results have been appropriately bias adjusted, using the Gradko Environmental national adjustment factors. Exceedances of the annual AQ objective of 40 µg m-3 is highlighted in bold. None of the passive monitoring locations (diffusion tubes) exceeded the air quality objective with the highest concentration recorded within the borough been 34.16 at our (DT4) Dagenham Heathway monitoring location.

However, 100% of the passive monitoring locations (diffusion tubes) exceed the WHO guidelines.

At all the (LBBD) 48 passive monitoring locations between 2021 - 2025, the NO2 concentrations remain on a steady downward trajectory with highest percentage of decrease in the last (2025) monitoring year. Only 3 monitoring locations saw an increase in concentration in 2025 (DT1, DT7 & DT10).

Most of the data presented represents monitoring results for a 12-month period (January – December 2025) and diffusion tubes are exposed in accordance with the UK Defra guidance LAQM TG (22).

Table F. NO_2 Automatic Monitoring Results: Comparison with 1-hour Mean Objective, Number of 1-Hour Means > 200 µg m^{-3}

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid data capture for monitoring period %([a])	Valid data capture 2025 %([b])	2019	2020	2021	2022	2023	2024	2025
(BG1)	550652	186836	Suburban Background	57	-	0	0	0	0	0	0	0
(BG2)	548043	183320	Suburban Background	37	-	0	0	0	0	0	0	0

Notes

Results are presented as the number of 1-hour periods where concentrations greater than 200 µg m^{-3} have been recorded.

Exceedance of the NO_2 short term AQO of 200 µg m^{-3} over the permitted 18 hours per year are shown in **bold**.

If the period of valid data is less than 85%, the 99.8th percentile of 1-hour means is provided in brackets.

(a) Data capture for the monitoring period, in cases where monitoring was only conducted for part of the year

(b) Data capture for the full calendar year (e.g. if monitoring was conducted for six months the maximum data capture for the full calendar year would be 50%)

Table F shows that there have been no exceedances of the hourly NO_2 objective in 2025. This has remained consistent at 0 for the last 7 years.

The 2025 annual Mean NO_2 Concentration for diffusion tubes in the London Borough of Barking and Dagenham is attached to this report (Appendix B).

Table G. Annual Mean PM_{10} Automatic Monitoring Results (µg m^{-3})

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid data capture for monitoring period %([a])	Valid data capture 2025 %([b])	2019	2020	2021	2022	2023	2024	2025
(BG2)	548043	183320	Suburban Background	80	-	18	18	18	18	17	16	19

Notes

The annual mean concentrations are presented as µg m^{-3}.

Exceedances of the PM_{10} annual mean AQO of 40 µg m^{-3} are shown in **bold**.

All means have been "annualised" in accordance with LLAQM Technical Guidance if valid data capture is less than 75% and more than 25%.

(a) Data capture for the monitoring period, in cases where monitoring was only conducted for part of the year.

(b) Data capture for the full calendar year (e.g. if monitoring was conducted for six months the maximum data capture for the full calendar year would be 50%).

There is no exceedance of the annual PM_{10} objective in 2025 but the WHO guidelines annual mean of 15 µg m-3 was exceeded.

The PM_{10} trend has been on steady, slightly downward trajectory until this year. The reason for the increase in 2025 is not known but it could be due to increased development in the borough or in central London and/or increased episodes of intercontinental plumes of lower quality air affecting the SE of the UK.

Table H. PM_{10} Automatic Monitoring Results: Comparison with 24-Hour Mean Objective, Number of PM_{10} 24-Hour Means > 50 µg m^{-3}

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid data capture for monitoring period %[(a)]	Valid data capture 2025 %[(b)]	2019	2020	2021	2022	2023	2024	2025
(BG2)	548043	183320	Suburban Background	80	-	6	3	2	2	2	2	3

Notes

Exceedances of the PM_{10} 24-hour mean objective (50 µg m^{-3} over the permitted 35 days per year) are shown in **bold.**

Where the period of valid data is less than 85% of a full year, the 90.4th percentile is provided in brackets.

(a) data capture for the monitoring period, in cases where monitoring was only conducted for part of the year

(b) data capture for the full calendar year (e.g. if monitoring was conducted for six months the maximum data capture for the full calendar year would be 50%).

The 24-hour mean AQ objective was not exceeded in 2025 and the WHO guidelines of 45 µg m-3 of not more than 3-4 times a year was also not exceeded.

Table I. 2025 SO_2 Automatic Monitoring Results: Comparison with Objectives

Site ID	Valid data capture for monitoring period %[(a)]	Valid data capture 2025 %[(b)]	Number of 15minute means > 266 µg m^{-3}	Number of 1-hour mean > 350 µg m^{-3}	Number 24-hour mean > 125 µg m^{-3}
(BG1)	41	-	0	0	0

Notes

Results are presented as the number of instances where monitored concentrations are greater than the objective concentration.

Exceedances of the SO_2 objectives are shown in **bold** (15-min mean = 35 allowed a year, 1-hour mean = 24 allowed a year, 24hour mean = 3 allowed a year).

If the period of valid data is less than 85%, the relevant percentiles are provided in brackets.

(a) Data capture for the monitoring period, in cases where monitoring was only conducted for part of the year.

(b) Data capture for the full calendar year (e.g. if monitoring was conducted for six months the maximum data capture for the full calendar year would be 50%).

None of the SO_2 objectives were exceeded for the year 2025. The WHO guidelines were also not exceeded.

2. Action to Improve Air Quality

2.1 Air Quality Management Areas

Air Quality Management Areas (AQMAs) are declared when there is an exceedance or likely exceedance of an air quality objective. After declaration, the authority should prepare an Air Quality Action Plan (AQAP) within 12 months. The AQAP should specify how air quality targets will be achieved and maintained and provide dates by which measures will be conducted.

A summary of AQMAs declared by London Borough of Barking and Dagenham can be found in Table J. The table presents a description of the 2 AQMA(s) that are currently designated within an area encompassing the whole London Borough of Barking and Dagenham with unspecified road transport as its major source declared 16th December 2008. Appendix C provides maps of AQMA(s) and the air quality monitoring locations in relation to the AQMA(s). The air quality objectives pertinent to the current AQMA designation(s) for the two pollutants are as follows:

- 200 µg m-3 not to be exceeded more than 18 times a year for 1-hour mean and 40 µg m-3 Annual mean for NO_2.
- 50 µg m-3 not to be exceeded more than 35 times a year for PM_{10} 24-hour mean.

Table J. Declared Air Quality Management Areas

AQMA Name	Date of Declaration	Pollutants and Air Quality Objectives	One Line Description	Is air quality in the AQMA influenced by roads controlled by Highways England?	Level of Exceedance: Declaration	Level of Exceedance: Current Year	Number of Years Compliant with Air Quality Objective	Name and date of AQAP Publication	Web Link to AQAP
Nitrogen dioxide (NO_2)	Declared 16th December 2008	200 µg m-3 not to be exceeded more than 18 times a year for 1-hour mean and 40 µg m3 Annual mean for NO_2.	An area encompassing the whole borough.	Unspecified	-	34.16 (Not Exceeded)	14 years	AQAP for AQMA, 2020 - 2025	https://www.lbbd.gov.uk/community-safety-and-crime/makereport/report-air-quality-issues
Particles (PM_{10})	Declared 16th December 2008	50 µg m-3 not to be exceeded more than 35 times a year for PM_{10} 24hour mean.	An area encompassing the whole borough.	Unspecified	-	3 (Not Exceeded)	14 years	AQAP for AQMA, 2020 - 2025	https://www.lbbd.gov.uk/community-safety-and-crime/makereport/report-air-quality-issues

☒ **London Borough of Barking and Dagenham confirm the information on UK-Air regarding their AQMA(s) is up to date.**

☒ **London Borough of Barking and Dagenham confirm that all current AQAPs have been submitted to GLA.**

2.2 Air Quality Action Plan Progress

Table K provides a summary of London Borough of Barking and Dagenham progress against the Air Quality Action Plan adopted for 2020 – 2025, showing the progress made this year (2025). The Authority's draft revised AQAP (2026 – 2031) has passed through the internal stakeholder's consultation, including the Director of Public Health. Following updates to related corporate strategic plans further development and synchronisation work is being undertaken before gaining Member approval for the revised AQAP external consultation.

Table K. Delivery of Air Quality Action Plan Measures

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
1	Monitoring and core statutory duties	Maintain the borough's monitoring network, and add an additional 20 diffusion tubes	2023	Local Authority - Environmental Protection Team.	• In the year 2025, we were able to have a second full year of monitoring at all the 48 locations. In 2025, we have 100% data capture at 37 of the 48 monitoring locations, 91.7% at 9 locations and 83.3% at the remaining 2 locations. Meaning we recorded 100% data capture at 77% of all our monitoring locations, compared to 2024 where such improvement was at about 50% to the previous year.
2	Monitoring and core statutory duties	Work with and support relative emerging AQ monitoring projects to integrate new/modern monitoring techniques, including the £1m	2025	Local Authority - Environmental Protection Team.	• In 2025 the council continued to be fully involved in publicising the free air quality sensors for communities: Breathe London Communities Programme Round 3 as well as

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		C40 project delivered in partnership with the GLA.			continue to participate in its collaboration on the project with the Mayor's office, Imperial College London, and other Stakeholders. The programme which provides 20 fully funded air quality sensors to community groups, as part of the Breath London network. The current Council sensor allocation was installed in March 2025 at Goresbrook School. The Council advertise this opportunity to our communities through our various available comms channels, e.g. residents' newsletters, social media as well as through the borough website etc. and leaving the flyer in places such as libraries and community sensors to expand the reach. • The Council also continue to publicise and promote its project – Community Air Quality: Breathing in Barking and Dagenham running with the help of Imperial College. This was done through the social media spaces to promote the project, gather interest and get more involvement wherever possible. The project was also

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					publicised through press release, newsletter copy, Facebook, twitter, and LinkedIn post. https://bd.communityairquality.com/
3	Monitoring and core statutory duties	IPPC duties and inspections under the Environmental Permitting Regulations 2010	2025	Local Authority - Environmental Protection Team.	• The council continue to deliver its statutory obligations regarding this action. • Annual data statistical return on environmental permitting functions returned to Defra including number of permitted processes (A2, Schedule 13 and Part B processes) in 2025.
4	Emissions from developments and buildings	Raising awareness of and enforce the borough's Smoke Control Zone (SCZ). To include: an awareness campaign using Communications Team media platforms and active enforcement	2025	Local Authority - Environmental Protection Team.	• Our enforcement officers continue to investigate complaint of smoke nuisance and. • In 2025 the Council continued its communication with the London Port Health Authority (City of London Corporation) as regards including permanent moorings within its existing SCA.
5	Emissions from developments and buildings	Ensuring emissions from construction are minimised. All major developments must conduct an Air Quality Assessment in accordance with the GLA's guidance	2025	Local Authority - Environmental Protection Team.	• 100% of major planning applications adjoined with AQ. assessments or conditioned gained through local policy mechanism.
6	Emissions from developments and buildings	Include Greater London Authority (GLA) guidance on	2025	Local Authority - Environmental	• All major planning applications conditioned with GLA best practice guidance in 2025.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		environmental and construction best practices into BeFirst/LBBD and other major developments		Protection and Planning Team.	• The Draft Local Plan requires development to submit a Construction Management Plan to mitigate the adverse effects of construction. Be First published their public realm guidelines for new developments in 2020, and planning applications are required to meet guidance through conditions or legal obligations also in 2025. • Design Team use BIM & MMC to deliver to borough's 2030 net zero objectives.
7	Emissions from development and building	Ensuring enforcement of nonroad mobile machinery (NRMM) air quality policies. Include NRMM requirements within local planning guidance. Planning conditions imposed asking for NRMM compliance for all relevant major developments.	2025	Local Authority - Environmental Protection and Planning Team.	• NRMM is part of the Local Plan included into Regulation 19. All relevant planning applications in 2025 include NRMM conditions with relevant sites in the borough also registered on GLA NRMM website for the year. • There are 20 sites in the borough registered on GLA NRMM website for the year 2025 but 34 sites were audited for the year. • With 15 of the audited sites compliant, 4 were non-compliant, there are 2 with no NRMM, 5 were inappropriate for audit, 1 with no apparent work whilst 7 sites were already completed.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					• Policy DMSI 4 of the Draft Local Plan states the whole borough is an air quality management area, which requires the appropriate use of plant machinery and technology. Relevant planning applications include NRMM conditions.
8	Emissions from development and building	Reducing emissions from Combined heat and power (CHP) by ensuring that air quality as well as carbon emissions are considered when assessing planning applications or where existing schemes require new or upgraded heat sources	2021	Local Authority - Environmental Protection Team.	• We continue to maintain the register of CHPs plant within the borough.
9	Emissions from development and building	Enforce the GLA 'Air Quality Neutral' (AQN) policy or any preceding changes to this regional measure to all major developments	2020	Local Authority - Environmental Protection Team.	• In 2025, 2 of the major planning applications did not meet GLA policy on AQN and so required to include additional mitigation.
10	Emissions from development and building	Ensuring adequate appropriate, and well-located green space and infrastructure is included in new large-scale developments	2020	Local Authority - Planning Team.	• There is no further update since our last report.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
11	Emissions from developments and buildings	Ensure that planning and development teams implement policies on Healthy Streets at an early stage for larger developments (as defined by the GLA)	2021	Local Authority - Environmental Protection and Planning Team.	• There is no further update since our last report.
12	Emissions from developments and buildings	Promoting and delivering energy efficiency and energy supply retrofitting projects in workplaces and homes through retrofit programmes such as Retrofit Accelerator and Cosy Homes. LBBD to be zero carbon from Council operations (e.g., housing and fleet) by 2030, and zero carbon Borough wide by 2050	2025	Local Authority - Inclusive Growth Team.	• The Council has adopted its Zero Carbon Roadmap and Climate Change Action Plan whilst, many of the workstreams mentioned in it are still under way.
13	Emissions from developments and buildings	Improve air quality in the Borough by delivering improvements to reduce building emissions and increase uptake of Decentralised Energy Networks.	2025	Local Authority - Environmental Protection and Inclusive Growth Team.	• The council continues to work towards reducing emission from new development by ensuring relevant conditions are recommend at the planning stage as well as ensuring energy efficient measures are adopted for the site energy source. Installation of biomass is discouraged whilst the use of solar panel and Air Source Heat pump are encouraged.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
14	Emissions from developments and buildings	Participate in the Pan-London Non-Road Mobile Machinery registration campaign in conjunction with lead Borough (London Borough of Merton), to reduce emissions from construction vehicles in line with GLA guidance.	2020	Local Authority - Environmental Protection Team.	• We continue to maintain our membership of Pan-London Non-Road Mobile Machinery registration campaign. • Of the 34 sites audited for NRMM in 2025, 15 of the sites were compliant, 4 were non-compliant, there are 2 with no NRMM, 5 were inappropriate for audit, 1 with no apparent work whilst 7 sites were completed.

15	Public health and awareness raising	Public Health department taking shared responsibility for borough air quality issues and implementation of Air Quality Action Plan. 11a, Directors of Public Health (DPHs) regularly briefed on the scale of the problem in their area. 11b, DPHs incorporate up to date air quality information in their Joint Strategic Needs Assessment 11c, Air Quality Action Plans are formally signed off by the DPH. 11d, At least one Consultant grade public health specialist with air quality responsibilities in their job profile	2020	Local Authority - Environmental Protection and Public Health Team.	• Our colleagues in Public Health continued to deliver on their aspect of the AQAP in 2025. • The Council publicised and promoted its involvement in ongoing project – Community Air Quality: Breathing in Barking and Dagenham running with the help of Imperial College. This was done through the social media spaces to promote the project, gather interest and get more involvement wherever possible. https://bd.communityairquality.com/
16	Public health and awareness raising	Engage with local businesses and support access to business-specific funding schemes which promote,	2025	Local Authority - Inclusive Growth Team.	• Engagement with local businesses has now ceased.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		sustainable transport, collaborative delivery and low emission procurement practices through business forums and newsletters distribution.			
17	Public health and awareness raising	Develop and implement a communications strategy to disseminate air quality information to raise awareness and encourage behaviour change – may include messages to residents with heart and lung diseases (working in partnership with local NHS services). E.g., re publicising the Mayor's pollution alerts, promotion of active travel/sustainable transport, green home grants, and anti-idling messages etc.	2020	Local Authority - Environmental Protection, Communication and Public Health Team.	• Clean Air Day disseminated via Comms in 2025. • Assist in promoting the clean air day through our comms team by council-wide email regarding the day as well as its launch in the Reg Services Newsletter and social media.
18	Public health and awareness raising	Encourage schools to join the TfL STARS accredited travel planning programme. Promotes sustainable approach to active travel therefore reducing vehicle emissions and increasing physical activity.	2025	Local Authority - Planning Team.	• In 2025, 8 of the 62 schools in the borough were engaged for TfL STARS accredited travel planning programme accreditation, 3 of which have Bronze whilst 10 were Gold accreditation.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
19	Public health and awareness raising	Air quality in and around schools: Apply to the funding made available through TfL for LIPs to deliver the recommendations from the 'school streets.	2025	Local Authority - Transport Planning and Planning Team.	• Programme paused during 2024 and 2025 due to enforcement camera supplier challenges. • Independent review of 13 existing schemes undertaken in 2025. • Four schemes to be delivered in 2026.
20	Public Health and awareness raising	Use council lobbying power to increase/encourage local and regional action using a health in all policies approach. Lobbying within the BHR and NEL partnerships (including NHS and LA) to encourage other partners to consider measures to improve air quality – including their staff, residents, in their procurements and their in-house services. Lobby and work with TFL to reduce NO_2 & PM emissions from buses in LBBD, and to reduce air quality concentrations from TfL regulated roads.	2021	Local Authority - Environmental Protection and Public Health Team.	• Public Health have engaged with NEL ICB to support subregional action on air quality, but NEL resource has now reduced in capacity, and we will need to reestablish what is possible.
21	Public Health and Awareness Raising	Submit responses to relevant government and regional consultations – ensure responses focus on reducing	2025	Local Authority - Environmental Protection and Public Health Team.	• In 2025 the team responded to relevant government and regional consultations – ensure responses focus on reducing emissions of local air pollutants and CO2.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		emissions of local air pollutants and CO2.			• The team also participated in various stakeholders meeting to discuss issues relevant to local air quality.
22	Public Health and Awareness Raising	Continued implementation of the Barking Riverside Travel Plan, to accelerate uptake of cycling walking and sustainable transport.	2020	Local Authority - Planning Team.	• Initial target of 36% of residents travelling to work by car, 5% on foot and 7% by bicycle by end of 2021: Report no. of Pedestrian and cycle • provisions: • There are existing and proposed segregated and shared footways and cycle tracks on site. • Pedestrian provisions currently vary in quality, and not all junctions are equipped with pedestrian crossing facilities. • The 2023 Travel Plan states that the site benefits from 4 zebra crossings located at Northgate Rd and across Fielders Crescent. There is also a temporary pedestrian crossing at Merz Rd junction. • Cycle parking facilities are provided at Barking Riverside Station with capacity for 170 bicycles.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					• Report no. of registered members of Cycle Hub: • The cycle hub is open to all residents and employees/students on site, so registration is not required. However, there is a record of an average 120 attendees/enquiries monthly. • Report no. of registered members of Car club on site – This information has been requested from BRL and will be updated in our next report.
23	Public Health and Awareness Raising	Prepare and deliver Council wide (LBBD) and BeFirst Travel Plans encouraging sustainable transport modes for staff and visitors.	2021	Local Authority - Planning Team.	• Work on the Be First Travel Plan was paused whilst corporate structural changes were implemented. The intention is to progress this during 2026/27.
24	Public Health and Awareness Raising	Deliver the 'Ways of Working' (LBBD Staff) Travel to Work Plan and implement deliverables for staff to travel more sustainably and safely (in response to Covid19)	2020	Local Authority - Inclusive Growth Team.	• Ways of Working Travel plan still ongoing.
25	Delivery servicing and freight	Review of the process documentation templates (procurement strategy document, delegated authority documents, and award contract documents) to include air	2020	Local Authority - Procurement Team.	• This measure is still on-going following the AQAP adoption in February 2021.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		quality requirements for reducing vehicle emissions.			
26	Delivery servicing and freight	Review, implementation, and approval of the 'contract rules' in tandem with Council legal department with a view to adding air quality requirements for reducing vehicle emissions.	2021	Local Authority - Procurement Team.	• This measure is still on-going following the AQAP adoption in February 2021.
27	Delivery servicing and freight	Reducing emissions from deliveries to local businesses and residents. Work with and support TfL to install rapid electric vehicle charging points to encourage low emission vehicles.	2020	Local Authority - Planning Team.	• We continue to secure on-site ECVP points on major applications in 2025 whilst. • Delivery servicing and freight charging are being progressed by the private sector with a recent planning application submitted for a commercial charging hub on the A13.
28	Borough Fleet	Reducing emissions from council fleet. Undertake 'Grey' Fleet review with Energy Saving Trust to inform future vehicle choice and infrastructure	2020	Local Authority - Planning and Inclusive Growth Team.	• Regarding the grey fleet, a review was undertaken by EST in 2020, and the Council's policies are continuing to be reviewed to follow their recommendations. • For Be First, work is underway to identify a baseline position based on mileage claims for 2025/26.
29	Borough Fleet	Investigate the feasibility of, and implement the best environmentally performing, alternative fleet vehicle fuel (e.g., Hydrogen, Electric, Gasto Liquid)	2021	Local Authority - Fleet Management Team.	• There is no further update since our last report.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
30	Borough Fleet	Undertake an infrastructure and operational review for the Council fleet depot land space charging in the Borough to incentivise EV charging uptake at the workplace	2020	Local Authority - Inclusive Growth and Fleet Management Team.	• There is no further update since our last report.
31	Borough Fleet	Undertake annual fleet audits with a vehicle replacement programme to show continued progress in phasing out older and more polluting vehicles by 2030	2020	Local Authority - Fleet Management Team.	• The EV plans had been scrapped along with the procurement of the vehicles. However, as of December 2025, the council have 7 Electric and 1 hybrid vehicles among its 240 fleet.
32	Borough Fleet	Complete an industry recognised fleet driver training programme (e.g., Freight Transport Association) to improve driver/vehicle operations and reduce fleet emissions	2021	Local Authority - Fleet Management Team.	• There is no further update since our last report.
33	Borough Fleet	25% of total fleet vehicles to be fully electrified (Battery Electric Vehicle) by 2025. Long term target to have Council operations zero carbon by 2030 including fleet vehicles being zero tailpipe emission or as close as possible to zero tailpipe emissions using Best Available Technology.	2021	Local Authority - Fleet Management Team.	• There is no further update since our last report.
34	Localised Solutions	19a) Implement the published Green Infrastructure Strategy.	2025	Local Authority - Leisure Parks and	• **As regards action19a:**

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		19b) Apply for Green Space Grants / Community Tree Planting 19c) Develop and implement a tree planting delivery programme which strategically targets high pollution areas (roads) where feasible		Heritage/Public Realm Team.	• **Joint Local Health & Wellbeing Strategy**: the Council's Vision states - By 2028, residents in Barking and Dagenham will have improved physical and mental health and wellbeing, with a reduction in the gap in health inequalities between Barking and Dagenham residents and people living elsewhere. The borough's parks and what they offer through sport, recreation, nature, and mental health will play a key role in the achieving this, Vision. • Parks Commissioning is delivering the borough's **Parks and Green Spaces Strategy (POSS)** and associated **Action Plan** which in turn supports the implementation of the borough's **Green Infrastructure and Biodiversity Strategy** and related corporate

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					strategies including the **Air Quality Action Plan.** • Since it was adopted in 2017 Parks Commissioning has implemented the POSS and associated Action Plan. Parks Commissioning has delivered most improvements through external partnerships which have leveraged in £27M of grant, rather than the General Fund. • In 2023 funding was identified to support a review/refresh of the Borough's POSS and Arkwood was subsequently commissioned to deliver this work. • The review of the POSS has been substantially progressed and completion is expected autumn 2026. • **As regards action19b:** In November 2024, Parks Commissioning secured £182,000 of funding from the Carbon Offset Fund, Trees for Climate and Ward

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					Councillors alongside corporate investment to support large-scale tree planting across borough parks. • Through partnership working with Parks & Environment, Thames Chase Community Forest and SUGi Projects, and in collaboration with ward members, Parks Commissioning is delivering a programme of tree planting aligned with the Council's Corporate Plan target of planting an additional 50,000 trees by 2030. • **Phase 1** of the programme was delivered between January and March 2025, during which **36,348 native trees** were planted across **Eastbrookend Country Park, Goresbrook Park** and **Castle Green**. Planting focused on the creation of biodiverse Miyawaki woodlands and was delivered with the involvement of local residents, ward councillors, school children

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					and corporate volunteers. Despite 2025 being one of the driest years on record, early establishment has been strong due to the Miyawaki method and dedicated aftercare. • Building on the successful delivery of Phase 1, a **Phase 2** scheme at **Goresbrook Park** has been developed to plant an additional **19,200 native trees**. The total scheme value is £117,408 (inc. VAT), with £13,605 secured from Trees for Climate and £103,803 secured from the Carbon Offset Fund. Planting is programmed for October 2026. • Delivery of **Phase 1** and **Phase 2** combined will result in a total of **55,548 native trees** planted across borough parks within just over one year of on-site delivery activity.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					• Tree planting delivered by Parks Commissioning prior to this programme included: o Eastbrookend Country Park – Miyawaki Forest: 2,800 native trees (2024). o Central Park (Pitch & Putt course): – Phase 1 completed March 2024: 580 trees planted. – Phase 2 completed November 2024: 60 trees planted.
					• **As regards action19c:** Parks Commissioning's remit is focused on the borough's parks and green spaces. However, whilst we have not directly delivered tree-planting schemes that target high-pollution areas (roads), we have delivered schemes that directly support this objective, and which will contribute to air-quality improvements in areas adjacent to parks.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					• The Council is committed to becoming a carbon-neutral authority by 2030 and supporting the wider borough in becoming so by 2050. Therefore, in support of this objective, in September 2023 the Head of Sustainability, Net Zero & Parks Commissioning appointed Thames Chase Trust and Viridis Consultancy to develop and deliver appropriate schemes and secure match-funding. This partnership is ongoing and remains focused on the following: (i) strategic and targeted spend focused on nature-based solutions for carbon storage, such as tree planting and habitat restoration; and (ii) the allocation of resources to employ the expertise required to develop and translate site-specific schemes identified in the

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					borough's POSS and Green Infrastructure and Biodiversity Strategy into deliverable projects.
35	Localised Solutions	Continue to embed green infrastructure into LIP schemes.	2025	Local Authority - Planning Team.	• In 2024/25 225 square metres of surface were changed to drain into a SuDs feature.
36	Localised Solutions	Low Emission Neighbourhood (LEN): Continue to implement and project manage the TfL funded 'Greening the Fiddlers' LEN in Becontree Heath, Dagenham, in one of the GLA's Air Quality Focus Areas.	2022	Local Authority - Planning Team.	• Although the LEN project has ended, we continue working in the area via schemes on the LIP programme. Via the Active Travel Programme schools can take up subsidised places on WOW - the Walk to School Challenge. Bike Clubs for mainstream and SEND pupils are available and schools within the LEN participate in both. • The Becontree Bike Hub continues to serve the community.
37	Cleaner Transport	Ensuring that Transport and Air Quality policies and projects are integrated. 37a) Head of Transport should sign off AQAP. 37b) Transport officers to attend air quality steering groups.	2020	Local Authority - Transport Team.	• The Transport Planning lead for Be First has been consulted on the Annual Status Report. • Transport Officers continue to attend the air quality steering group meetings and are a key stakeholder in delivering the AQAP.
38	Cleaner Transport	Use parking policy to reduce private use vehicle emissions by reviewing borough parking permit fee banding and	2021	Local Authority - Parking Team.	• New Permit charges based on emissions introduced 2020/21 continues.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		implement a policy to incentivise lower emission vehicles/ dis-incentivise higher emitting vehicles			
39	Cleaner Transport	Review parking policy to reduce the overall number of parking permits to single household/residential tenancy. (de-incentivise higher number of cars p/house)	2021	Local Authority - Parking Team.	• This is still under review as part of Parking Strategy 2023- 2030.
40	Cleaner Transport	Introduce a policy to charge commercial vehicles parking overnight and at weekends in borough roads to reduce congestion and discourage commercial vehicles.	2021	Local Authority - Parking Team.	• There is no further update since our last report.
41	Cleaner Transport	Review staff parking permits and implement a policy or management process to significantly reduce overall numbers, with the aim to reduce 'grey fleet' impacts	2021	Local Authority - Parking Team.	• There is no further update since our last report.
42	Cleaner Transport	Installation of Ultra-low Emission Vehicle (ULEV) infrastructure to encourage low emission vehicles. e.g. On-street Electric Vehicle Charging Points	2022	Local Authority - Transport Planning and Planning Team.	• In 2025, an additional 3 locations (12 bays) were added as part of an ongoing programme to rollout additional publicly available EV charge points.
43	Cleaner Transport	Require private developers to install Ultra-Low Emission Vehicle (ULEV) infrastructure	2020	Local Authority - Planning Team.	• The updated Local Plan adopted in September 2024 includes a specific policy: "Development

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		as per the GLA London Plan for major residential and non-residential developments. E.g., electric vehicle charging points			proposals will be required to include the installation of electric vehicle charging points and supporting infrastructure…" • Be First deliver the Council's planning service and, as part of this, ensure that new developments commit to provided ULEV infrastructure that meets current and future needs.
44	Cleaner Transport	Provision of infrastructure to support walking and cycling e.g., the development of key strategic cycle routes including Barking Station to Chadwell Heath Station, cycle route CFR10 Barking Riverside to Ilford (via Barking Town Centre) and Heathway to Becontree Heath. Potentially 'Liveable Neighbourhoods' ambition for the Becontree Estates subject to TfL funding.	2020	Local Authority - Transport and Planning Team.	• No. of on-street cycle hangars installed in 2025 is 23. • Length of new cycle lane/path delivered in 2025-26 along Renwick Rd. is 1.1km. • No. of 'Bike It' cycle training programmes delivered April 2025 - March 2026 are: • 91 Bikeability sessions delivered in schools • 570 social cycling delivered to residents as learn to ride, rider development and family sessions. • No. of 'Dr Bike' sessions implemented are: • 3 sessions in schools from January - March 2026 • No. of Becontree Heath Bike Hub sessions delivered are: 153 with > 1700 repairs made and >2000 enquiries addressed.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
45	Cleaner Transport	Discourage unnecessary idling by road vehicles. Participate in the Pan-London Anti-Idling campaign/project in conjunction with the London Borough of Camden and proactively enforce regulations to reduce idling vehicles. Focus anti-idling at school sites/roads	2025	Local Authority – Education, Fleet Management and Environmental Protection Team.	• The council continue to involve in active participation in the Pan London Anti-Idling campaign/project in conjunction with the London Borough of Camden. With the council “Local Schools for • Local Children” project; the council has been successful in its Borough wide school expansion programme in 2025. We are continuing to be in a • position where school places are available much closer to home meaning that families will travel shorter distances to school as we hope this will encourage pupils to walk rather than be driven. • Some travel distances are down from 5km to 2km which is far more manageable. • Anti-idling information are continued to be shared with all schools with a view to onward sharing with families and carers. • Many schools are continuing to be keen to develop their own “School Street” which has a significant impact on neighbourhood air quality.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					• The BeFirst scheme continue to push car parking away from the school and encourages walking. • More schools continued to sign up, and it should be noted that feedback from schools so far is not necessarily to do with the idling issue alone but also with success in controlling inconsiderate parking and dropping off at the school gates. • Parents and carers park further from the school and turn off their engines to walk their children to the school gate. • Schools also report that nearby families that would drive are making the switch to walking to school. • However, feedback from schools requesting School Streets cite road safety and inconsiderate parking behaviour at the school gates, above air pollution concerns as the reason for requesting for one.
46	Cleaner Transport	Encourage behaviour change in transport modes to increase sustainable transport and decrease private car use:	2020	Local Authority - Planning Team.	• Behaviour change campaigns: WOW - the Walk to School Challenge – we have 12 participating schools and 40% engagement.

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		a) Campaigns to promote walking to school b) Campaigns to promote workplace travel plans			• For School Bike Clubs, the No. of mainstream bike clubs (follow on from Bikeability) are 25 clubs across 13 schools whilst, • The No. of SEND bike clubs (supporting pupils to achieve Bikeability not elsewhere provided) are 21 clubs across 12 schools • For Workplaces - travel plans, There is not currently specific provision for preparing workplace travel plans, although businesses and organisations can be signposted to resources to support them.
47	Cleaner Transport	Develop a long-term strategy for the A13 to help improve traffic congestion, improve air quality, and enable sustainable growth. Require full Environmental Impacts Assessments (EIA's) for A13 development proposals including replacement of the Lodge Avenue flyover by TfL.	2020	Local Authority - Planning Team.	• Be First and LBBD continue to secure funding for and deliver active and sustainable transport improvements to mitigate the impacts of the A13. Recent projects include traffic calming measures on Gale Street and cycling and walking upgrades from Thames View to Barking Riverside Station. In 2026 Transport for London will • commence replacing the Lodge Avenue Flyover, which will impact the deliverability of other schemes for around two years. An

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
					EIA's is being prepared as part of the scheme development process.
48	Cleaner Transport	Work with the River Roding Trust (RRT), the Canal, and River Trust or relevant bodies to raise awareness of local air pollution emissions from waterways. Engage with canal boat owners to promote sustainability, cleaner fuel burning and anti-idling to reduce emissions from boats. Two Boat Mooring sites in LBBD. 1) near Hertford Road and Gurney Close IG11 8JY (narrow boat moorings only) and, 2) (static) barge mooring only, near Barking Creek IG11 7BW (all electrically powered only).	2021	Local Authority - Environmental Protection Team.	• There is no further update since our last report.
49	Cleaner Transport	1) Promote World Car-Free day (22nd September) through Communications Department 2) Explore gaining funding though the Greater London Authority Mayor's Air Quality Fund (or other funding source) to promote car free days in	2021	Local Authority - Environmental Protection Team.	• Be First continuing to monitor and apply for funding opportunities, however the number of funding opportunities in the last five years have been fewer. • With respect to World Car Free Day - schools are encouraged to

Measure	LLAQM Action Matrix Theme	Action	Estimated / Actual Completion Date	Organisations Involved	Progress • Emissions/Concentration data • Benefits • Negative impacts / Complaints
		LBBD streets Explore allowing residents to apply for 'Play Streets' or similar that allow streets/roads to be closed from traffic and encourage community engagement			• participate via e-comms from the Be First Green Travel Coordinator. Be First Transport Officers continue to monitor funding opportunities alongside colleagues in Highways, Public Health, Education.

3. Planning Update and Other New Sources of Emissions

Table L. Planning requirements met by planning applications in London Borough of Barking and Dagenham in 2025

Condition	Number
Number of planning applications where an air quality impact assessment was reviewed for air quality impacts	21
Number of planning applications required to undertake construction dust monitoring and reporting (Please specify how you get access to dust monitoring data i.e. online tool or CSV file)	19
Number of CHPs/Biomass boilers refused on air quality grounds	0
Number of CHPs/Biomass boilers subject to GLA emissions limits and/or other restrictions to reduce emissions as detailed in Air Quality Neutral LPG (london.gov.uk) point 3.1.5.	0
Number of developments required to install Ultra-Low NO_X boilers	0
Number of developments where an AQ Positive, AQ Neutral building and/or transport assessments undertaken	21
Number of developments where the AQ Neutral building and/or transport assessments not meeting the benchmark and so required to include additional mitigation	2
Number of planning applications with S106 agreements including other requirements to improve air quality	7
Number of planning applications with CIL payments that include a contribution to improve air quality	0
NRMM: Number of planning applications with conditions related to NRMM included. Number of developments registered at www.nrmm.london. Number of audits (based on the pan-London project report and / or inhouse auditing programme) % of sites unregistered prior to audit % of sites compliant with the NRMM LEZ policy standards.	There are 12 planning applications with conditions related to NRMM. There are 20 sites in the borough registered on GLA NRMM website for the year 2025 but there 34 sites audited for the year. 15 of the audited sites were compliant, 4 were noncompliant, there are 2 with no NRMM, 5 were inappropriate for audit, 1 with no apparent work whilst 7 sites were completed.

Records of the above information on planning applications are kept in the London Borough of Barking and Dagenham internal Civica APP database. This is duplicated in the Environmental Protection team 'Planning' folder where all EP officers' comments and recommendations are stored/recorded.

The Authority received 16 major planning applications that required AQ assessment in 2025.

The NRMM record is from the annual audit report submitted to the council through its membership of Pan London NRMM as well as from the registered information on the nrmm.london website.

3.1 New or significantly changed industrial or other sources

No new industrial sources identified.

4. Additional Activities to Improve Air Quality

4.1 London Borough of Barking and Dagenham Fleet

The London Borough of Barking and Dagenham confirm that, as of December 2025, the Authority has a fleet of 240 council vehicles, 7 of which are electric vans and one of which is a hybrid car. This represents 3.33% of the overall fleet being a) zero emission, and b) zero emission capable.

4.2 Planning Enforcement

Whilst the Environmental Protection team is responsible for the review of every planning application and recommends relevant planning conditions on environmental issues following consultation as one of the internal statutory consultees, enforcement of such conditions is the responsibility of the Planning Enforcement team, with assistance from the Environmental Protection team. Enforcement is undertaken where the conditions have not been complied with following a complaint, report, request for service and/or a site inspection.

4.3 Pan-London NRMM Auditing Project

The London Borough of Barking and Dagenham intends to continue to support the Pan-London NRMM Auditing project in business year 2026 – 2027.

The standard wording use for NRMM conditions on construction/demolition sites are:

- **Non-Road Mobile Machinery- standard condition**

a. No works shall commence on the site until all plant and machinery to be used at the demolition and construction phases have been submitted to, and approved in writing by, the LPA. Evidence is required to meet Stage IIIB of EU Directive 97/68/EC for both NOx and PM. No works shall be conducted on site until all Non-Road Mobile Machinery (NRMM) and plant to be used on the site of net power between 37kW and 560 kW has been registered at http://nrmm.london/. Proof of registration must be submitted to the LPA prior to the commencement of any works on site.

b. An inventory of all NRMM must be kept on site during the course of the demolitions, site preparation, and construction phases. All machinery are required to be serviced regularly, and service logs kept on site for inspection. Records should be kept on site that detail the proof of emission limits for all relevant equipment/plant. This documentation is required to be made available to local authority officers, as required, until the completion of the development's site works.

Reason: To protect local air quality and comply with Policy 7.14 of the London Plan and the GLA NRMM LEZ

- The NRMM condition is applied through the planning permission/decision notice, and is applicable to all relevant sites.

4.4 Air Quality Alerts

The Authority confirms that London Borough of Barking and Dagenham has not signed up to *air*TEXT, but, the *air*TEXT Air Quality direct alerts service can be accessed via the below link below on the Authority's website.

https://uk-air.defra.gov.uk/forecasting/locations?q=barking%20and%20dagenham

4.5 Air Quality Positive

The London Borough of Barking and Dagenham strongly encourages developers to maximise the benefits to local air quality in and around a large-scale development sites and the masterplan area, whilst also encouraging the minimising of population exposure to existing sources of poor air quality. The Authority are not able provide a specific development site to illustrate this point.

Appendix A Details of Monitoring Site Quality QA/QC

A.1 Automatic Monitoring Sites

In 2025, The automatic monitoring sites routine calibrations were undertaken monthly, by Enviro Technology, for the full year. LSO duties, audits and service/ upkeep/ maintenance were also contracted to the same company (Enviro Technology). In 2025, there was a major power failure and equipment breakdown at both automatic monitoring stations from May to December 2025 and significant data was lost.

PM_{10} Monitoring Adjustment

No PM_{10} monitoring adjustment was done in 2025.

A.2 Diffusion Tubes

- Gradko is responsible for supplying and analysing the tubes.
- TEA 50/50
- Confirmation is given that Gradko follows the procedures set out in the Practical Guidance.
- National Bias adjustment factor of 0.92 of the spreadsheet versions issued 03/2026 was used rather than 1.27 for the local bias adjustment factor.

Discussion of Choice of Factor to Use

For the Bias adjustment factor, the national figure was used as the survey consists of diffusion tubes exposed over a range of settings, which differ from the co-location site, (see TG22 Box 7-13). Moreover, data capture from the co-location automatic analyser was less than 90%, with poor data capture overall.

Table M. Bias Adjustment Factor

Year	Local or National	If National, Version of National Spreadsheet	Adjustment Factor
2025	National	03/26	0.92
2024	National	04/25	0.88
2023	National	03/24	0.83
2022	National	03/23	0.82
2021	National	03/22	0.83
2020	National	06/21	0.82

Diffusion Tube Bias Adjustment Factors 03/26 Issue of the Spreadsheet				
			New (04/25) Factor	
Laboratory	Method	Year	No. of Studies	Factor
Gradko	50% TEA in acetone	2025	18	0.92

Local Bias adjustment Factor using Rush Green Primary School

Checking Precision and Accuracy of Triplicate Tubes

AEA Energy & Environment
From the AEA group

Diffusion Tubes Measurements

Period	Start Date dd/mm/yyyy	End Date dd/mm/yyyy	Tube 1 µgm^{-3}	Tube 2 µgm^{-3}	Tube 3 µgm^{-3}	Triplicate Mean	Standard Deviation	Coefficient of Variation (CV)	95% CI of mean
1	07/012025	04/02/2025	21.9	19.6	20.8	21	1.1	5	2.8
2	04/02/2025	04/03/2025	16.6	18.4	18.9	18	1.2	7	3.0
3	04/03/2025	31/03/2025	16,3	15,7	17,2	16	0,7	5	1,9
4	31/03/2025	29/04/2025	12,5	13,0	12,2	13	0,4	3	0,9
5	29/04/2025	03/06/2025	8,0	8,1	8,5	8	0,3	4	0,7
6	03/06/2025	03/072025	10.0	9.9	10.2	10	0.1	1	0.4
7	03/07/2025	05/08/2025	10,5	10,9	10,2	11	0,4	3	0,9
8	05/08/2025	02/09/2025	10,3	10,8	9,8	10	0,5	5	1,2
9	02/09/2025	30/09/2025	10.4	9.4	5.6	8	2.5	29	6.2
10	30/09/2025	04/11/2025	12.9	14.2	13.7	14	0.7	5	1.7
11	04/11/2025	02/12/2025	15,2	16,3	14,1	15	1,1	7	2,8
12	02/12/2025	06/01/2026	16.9	14.4	15.5	16	1.3	8	3.2
13									

It is necessary to have results for at least two tubes in order to calculate the precision of the measurements

Automatic Method		Data Quality Check	
Period Mean	Data Capture (% DC)	Tubes Precision Check	Automatic Monitor Data
29,5	100	Good	Good
22,8	100	Good	Good
25,3	100	Good	Good
15,2	98	Good	Good
7,2	81	Good	Good
9	63	Good	or Data Capture
10	100	Good	Good
10	46	Good	or Data Capture
		Poor Precision	
		Good	
		Good	
		Good	
Overall survey -->		Good precision	Poor Overall DC

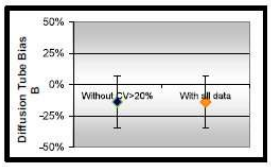
Site Name/ ID:

Precision 11 out of 12 periods have a CV smaller than 20%

(Check average CV & DC from Accuracy calculations)

Accuracy (with 95% confidence interval)
without periods with CV larger than 20%
Bias calculated using 6 periods of data
Bias factor A 1.27 (1.01 - 1.73)
Bias B -21% (-42% - -1%)
Diffusion Tubes Mean: 14 µgm^{-3}
Mean CV (Precision): 4
Automatic Mean: 18 µgm^{-3}
Data Capture for periods used: 97%
Adjusted Tubes Mean: 18 (15 - 25) µgm^{-3}

Accuracy (with 95% confidence interval)
WITH ALL DATA
Bias calculated using 6 periods of data
Bias factor A 1.27 (1.01 - 1.73)
Bias B -21% (-42% - -1%)
Diffusion Tubes Mean: 14 µgm^{-3}
Mean CV (Precision): 4
Automatic Mean: 18 µgm^{-3}
Data Capture for periods used: 97%
Adjusted Tubes Mean: 18 (15 - 25) µgm^{-3}



Jaume Targa, for AEA
Version 04 - February 2011

Adjustment of DUPLICATE or TRIPLICATE Tubes

AEA Energy & Environment
From the AEA group

Diffusion Tubes Measurements

Period	Start Date dd/mm/yyyy	End Date dd/mm/yyyy	Tube 1 µgm^{-3}	Tube 2 µgm^{-3}	Tube 3 µgm^{-3}	Triplicate Average	Standard Deviation	CV	95% CI mean
1	07/012025	04/02/2025	21.9	19.6	20.8	20.8	1.13	5.44	2.81
2	04/02/2025	04/03/2025	16.6	18.4	18.9	18.0	1.22	6.80	3.03
3	04/03/2025	31/03/2025	16.3	15.7	17.2	16.4	0.75	4.58	1.86
4	31/03/2025	29/04/2025	12.5	13.0	12.2	12.6	0.36	2.90	0.90
5	29/04/2025	03/06/2025	8.0	8.1	8.5	8.2	0.29	3.53	0.72
6	03/06/2025	03/072025	10.0	9.9	10.2	10.0	0.15	1.45	0.36
7	03/07/2025	05/08/2025	10.5	10.9	10.2	10.5	0.36	3.43	0.90
8	05/08/2025	02/09/2025	10.3	10.8	9.8	10.3	0.49	4.73	1.21
9	02/09/2025	30/09/2025	10.4	9.4	5.6	8.5	2.49	29.41	6.17
10	30/09/2025	04/11/2025	12.9	14.2	13.7	13.6	0.69	5.07	1.71
11	04/11/2025	02/12/2025	15.2	16.3	14.1	15.2	1.13	7.42	2.79
12	02/12/2025	06/01/2026	16.9	14.4	15.5	15.6	1.27	8.16	3.16
13									

It is necessary to have results for at least two tubes in order to calculate the precision of the measurements

Data Quality Check
Diffusion Tubes Precision Check
Good
Good
Good
Good
Good
Good
Good
Good
Poor Precision
Good
Good
Good

Jaume Targa, for AEA
Version 04 - February 2011

Site Name/ ID:

Adjusted measurement (95% confidence level)
Without periods with CV larger than 20%
Bias calculated using 6 periods of data
Tube Precision: 4 Automatic DC: 97%
Bias factor A: 1.27 (1.01 - 1.73)
Bias B: -21% (-42% - -1%)
Information about tubes to be adjusted
Diffusion Tube average: 14 µgm^{-3}
Average Precision (CV): 5
Adjusted Tube average: 17 +/- 4 µgm^{-3}

Adjusted measurement (95% confidence level)
with all data
Bias calculated using 6 periods of data
Tube Precision: 4 Automatic DC: 97%
Bias factor A: 1.27 (1.01 - 1.73)
Bias B: -21% (-42% - -1%)
Information about tubes to be adjusted
Diffusion Tube average: 13 µgm^{-3}
Average Precision (CV): 7
Adjusted Tube average: 17 +/- 4 µgm^{-3}

A.3 Adjustments to the Ratified Monitoring Data

Short-term to Long-term Data Adjustment

Annualisation of Nitrogen Dioxide (NO_2) at (BG1) Rush Green Primary School and (BG2) Scrattons Farm

Whilst the data capture for NO2 was less than 75% with the need for annualization as advised in section 7.216 of the Local Air Quality Management Technical Guidance (TG22), this was conducted as shown in Box 7.9 of the technical guidance using the urban and suburban background sites which are: Bexley - Belvedere West, Belvedere, Enfield – Bush Hill Park and Prince of Wales School to illustrate the likely changes in the annual concentration.

Distance Adjustment

All monitoring locations are representative of public exposure and no distance adjustment has been required as none of the monitoring sites concentrations are greater than 36µg m-3.

Table N. Automatic NO_2 Monitoring Data Adjustment

Background Site	Annual Data Capture (%)	Annual Mean (A_m)	(BG1)		(BG2)					
			Period Mean (P_m)	Ratio (A_m / P_m)	Period Mean (P_m)	Ratio (A_m / P_m)	Period Mean (P_m)	Ratio (A_m / P_m)	Period Mean (P_m)	Ratio (A_m / P_m)
Bexley - Belvedere West	87	14.3	16.1	0.885	18.4	0.773				
Bexley - Belvedere	95	15.5	17.6	0.884	20.3	0.766				
Enfield – Bush Hill Park	100	15.5	16.8	0.927	20.0	0.779				
Enfield – Prince of Wales School	92	15.7	16.3	0.962	18.9	0.834				
Average (R_a)			0.915		0.788					
Raw Data Annual Mean (M)			17		25					
Annualised Annual Mean (M x R_a)			15.5		19.7					

Appendix B Full Monthly Diffusion Tube Results for 2025

Table O. NO_2 2025 Diffusion Tube Results (µg m^{-3})

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Annual Mean: Raw Data	Annual Mean: Annualised and Bias Adjusted (0.92)	Annual Mean: Distance Corrected to Nearest Exposure	Comment
DT1	544793	183783	34.2	31.7	30.3	33.3	23.8			20.5	23.0	24.8	25.5	26.0	27.3	25.1		
DT2	545032	183193	29.8	26.5	32.6	19.0	17.9	17.2	20.8	20.3	19.2	21.6	23.2	22.8	22.6	20.8		
DT3	547806	183543	30.0	35.0	31.9	30.2	22.3	22.1	24.3	22.8	20.7	28.8	26.4	24.5	26.6	24.5		
DT4	549035	184813	50.4	39.2	36.0	17.4	30.6	39.6	44.8	35.1	40.6	33.7	42.7	35.4	37.1	34.2		
DT5	547789	185792	28.5	31.3	35.1	30.1	22.6	30.7	28.6	27.0	31.1	32.3	31.7	30.7	30.0	27.6		
DT6a	550652	186836	21.9	16.6	16.3	12.5	8.0	10.0	10.5	10.3	10.4	12.9	15.2	16.9	13.4	12.4		
DT6b	550652	186836	19.6	18.4	15.7	12.9	8.1	9.9	10.9	10.7	9.4	14.2	16.3	14.3	13.4	12.3		
DT6c	550652	186836	20.8	18.9	17.2	12.2	8.5	10.1	10.2	9.8	5.6	13.7	14.1	15.5	13.1	12.0		
DT7	548544	188125	37.0	33.7	28.7	32.7	24.3		24.1	24.0	21.5	27.6	29.8	29.2	28.4	26.1		
DT8	548359	189057	31.1	30.4	28.5	29.6	19.4	21.6	27.4	23.2	21.7	25.6	25.5	23.1	25.6	23.6		
DT9	544128	183662	29.6	28.3	24.0	20.3	18.5	16.3	18.1	14.8	19.9	23.6	24.6	24.8	21.9	20.2		
DT10	544385	184565	31.8	32.3	34.8	29.1	21.3	20.1	22.6	21.4	23.6	24.5	29.3	28.7	26.6	24.5		
DT11	549832	183208	41.7	31.1	29.9	25.6	14.3	18.7	17.8	17.2	18.1	23.6	29.2	28.3	24.6	22.7		
DT12	546501	182713	34.0	27.3	30.0	12.6	14.9	20.1	18.0	17.4	20.8	22.3	24.9	23.5	22.2	20.4		
DT13	547081	183053	27.9	27.6	25.7	20.6	17.5	16.0	18.7	16.6	16.5	17.8	19.5	18.9	20.3	18.7		
DT14	548065	187998	34.8	34.5	30.1	26.3	20.6	24.3	24.8	25.0	22.2	25.2	26.2	30.3	27.0	24.9		

DT15	546935	183135	21.7	29.3	23.3	24.9	15.0	14.5	16.7	17.5	17.3	19.6	23.3	22.4	20.5	18.8		
DT16	545296	183204	37.4	36.7	36.9		28.2	30.0	34.6	25.7	30.1	32.0	32.4	25.4	31.8	29.2		
DT17	545842	183144	27.0	24.9	24.9	21.8	16.7	17.1	18.2	19.3	19.8	22.2	25.2	20.3	21.5	19.8		
DT18	546415	183717	45.2	37.1	38.5	25.0	28.7	32.3	35.6	37.6	36.5	32.8	41.0		35.5	32.6		
DT19	546744	185774	35.4	31.5	28.6	21.0	18.2	24.5	26.0	20.8	23.4		30.2	26.7	26.0	23.9		
DT20	549173	186755	32.3	28.6	33.3	20.1	21.8	24.7	25.0	22.5	19.9	25.8	25.0	26.0	25.4	23.4		
DT21	548733	187586	37.7	32.6	34.5	32.8	23.4	28.0	27.8	29.1	30.6	31.0	29.6	33.3	30.9	28.4		
DT22	549078	183327	28.1	25.7	16.4	10.8	13.5	17.1	16.5	16.3	26.6	19.2	24.8	21.4	19.7	18.1		
DT23	550263	184902	26.9	31.8	40.1	27.8	24.3	31.8	32.1	26.6	19.8	30.1	33.0	30.2	29.5	27.2		
DT24	548487	183557	37.6	34.5	33.2	23.5	15.9	28.7	25.5	27.7	26.0	25.3	32.0	34.6	28.7	26.4		
DT25	544699	183650	39.8	35.6	34.3	35.8	25.7	39.9	32.1	37.4	36.1	36.6	39.6	35.1	35.7	32.8		
DT26	547762	186888	32.9	31.5	36.0	26.5	19.2	21.6	24.9	23.0	21.8	25.4	30.3	26.8	26.7	24.5		
DT27	544339	184702	41.5	31.1	32.7	22.3	18.2	23.8	24.6	25.5	25.2	26.5	30.7	25.1	27.3	25.1		
DT28	546731	183684	35.8	32.5	28.8	28.9	17.1	28.0	22.7	23.1	23.8	28.1	32.8	28.7	27.5	25.3		
DT29	548422	186431	25.2	25.2	26.1	17.2	10.4	10.0	13.2	12.9	14.7	16.7	18.5	12.6	16.9	15.6		
DT30	544631	184553	29.9	28.8	25.5	19.5	15.9	15.8	18.5	16.0	15.7	21.7	23.3	22.4	21.1	19.4		
DT31	547209	186599	25.6	20.4	20.0	12.2	12.0	14.1	14.2	11.9	15.3	18.4	22.5	23.9	17.5	16.1		
DT32	545942	184073	31.2		31.1	16.3		17.9	21.0	20.7	21.8	23.5	23.2	26.6	23.3	21.5		
DT33	545124	184935	32.3	28.9	23.2	22.7	16.5	19.2	21.9	17.1	19.1	23.0	21.9	26.8	22.7	20.9		
DT34	544097	184196	37.1	31.5	30.2	26.7	19.0	24.3	23.4	24.6	23.9	23.5	28.5	28.4	26.8	24.6		
DT35	544206	184158	37.6	37.2	37.5	36.1	25.7	25.6	29.4	28.3	27.0	30.5	33.5	30.8	31.6	29.1		
DT36	545536	183446	33.1	28.5	32.8	30.8	19.8	24.3		23.3	22.6	18.7	28.9	25.0	26.2	24.1		
DT37	544667	183104	31.9	34.7	29.0	26.1	23.8	18.9	24.2	24.2	24.9	27.4	30.2	22.2	26.5	24.3		
DT38	545495	183310	29.1	26.9	25.5	20.7		17.5	18.6	17.4	20.6	22.0	22.7	23.7	22.3	20.5		

DT39	546618	184605	33.3	31.6	32.3	24.8	21.6	30.8	27.7	23.2	23.2	12.1	31.7	32.4	27.1	24.9		
DT40	546968	185087	26.0	25.5	20.8	15.9	10.7	12.4	14.6	13.0	16.1	16.6	21.0	18.5	17.6	16.2		
DT41	548056	183606	35.7	30.9	26.6	22.7	16.5	28.1	22.1	24.4	26.3	28.8	32.2	32.5	27.2	25.1		
DT42	548974	184041	28.7	27.1	25.6	15.6	12.9	14.4	16.5	14.2	18.2	19.7	24.1	23.9	20.1	18.5		
DT43	549537	183284	27.1	30.5	27.7	20.3	19.9	20.3	20.1	18.7	21.9	22.4	28.8	26.7	23.7	21.8		
DT44	550508	184123	26.6	22.1	21.3	12.0	10.8	12.9	14.9	12.5	15.7		21.0	19.9	17.3	15.9		
DT45	550289	184928	30.6	29.8	28.0	18.2	15.8	20.7	23.9	19.7	19.3	22.1	26.8	23.5	23.2	21.4		
DT46	548935	185402	26.9	24.2	21.0	16.6	11.0	15.7		16.0	15.0	18.1	21.2	23.5	19.0	17.5		
DT47	550002	185912	36.4	33.6	27.0	26.8	22.4	28.1	25.8	23.7	23.8	27.1	27.0	27.1	27.4	25.2		
DT48	549154	186114	27.9	26.8	22.4	14.5		14.0	15.1	13.3	15.3	15.4	23.9	23.6	19.3	17.7		

☒ **All erroneous data has been removed from the NO_2 diffusion tube dataset presented in Table O.**

☒ **Annualisation has been conducted where data capture is <75% and >25% in line with LLAQM.TG19.**

☐ **Local bias adjustment factor used.**

☒ **National bias adjustment factor used.**

☒ **Where applicable, data has been distance corrected for relevant exposure in the final column.**

☒ **London Borough of Barking and Dagenham confirm that all 2025 diffusion tube data have been uploaded to the Diffusion Tube Data Entry System.**

Notes

Exceedances of the NO_2 annual mean objective of 40µg m^{-3} are shown in **bold**.

NO_2 annual means exceeding 60µg m^{-3}, indicating a potential exceedance of the NO_2 1-hour mean objective are shown in **bold and underlined**.

See Appendix B for details on bias adjustment and annualisation.

Appendix C Map(s) of Monitoring Locations and AQMAs

Figure A. Map of Non-Automatic Monitoring Site(s)

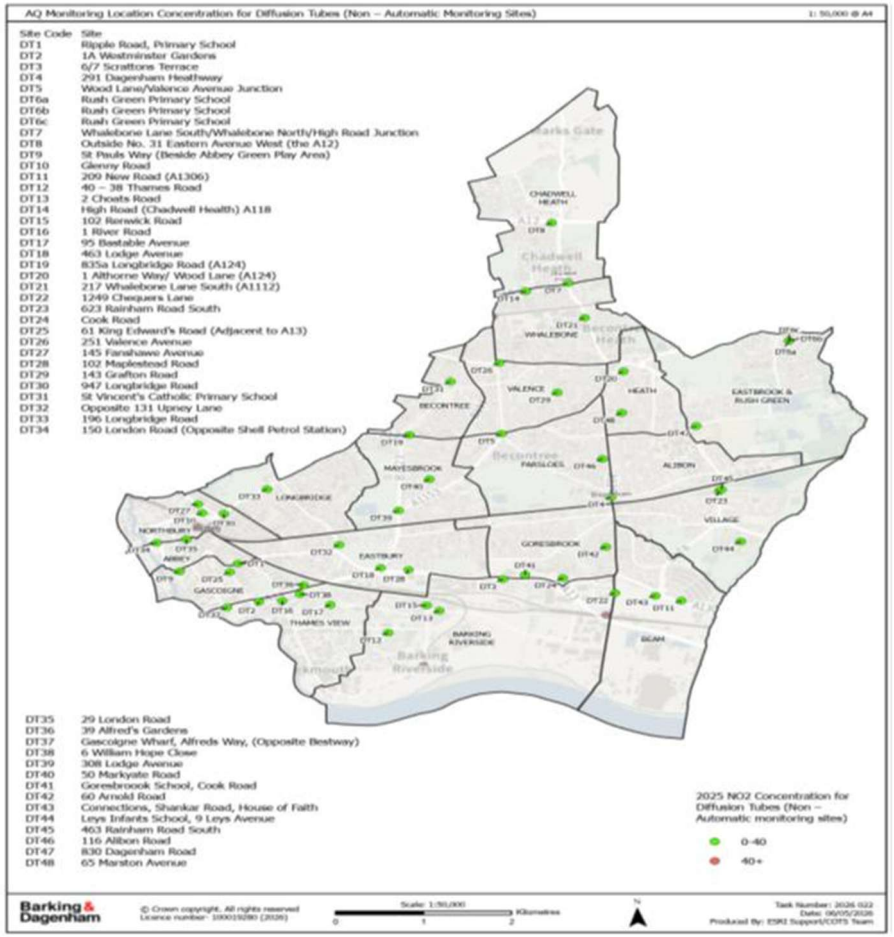


Figure B. Map of Automatic Monitoring Site(s)

