East Dunbartonshire Council

2025 Annual Progress Report

June 2025

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Annual Progress Report

2025 Air Quality Annual Progress Report (APR) for East Dunbartonshire

In fulfilment of Part IV of the Environment Act 1995, as amended by the Environment Act 2021

Local Air Quality Management

(June, 2025)

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Executive Summary: Air Quality in Our Area

Air Quality in East Dunbartonshire

This report is the 2025 Annual Progress Report undertaken in accordance with East Dunbartonshire Council's statutory obligation under the National Air Quality Strategy.

The report considers measured pollutant concentrations across East Dunbartonshire for the calendar year of 2024 and considers the potential for exceedances of the air quality objectives.

In East Dunbartonshire, the main pollutants of concern are NO_2, PM_{10} and $PM_{2.5}$ and the source of pollution is mainly due to the volume of traffic and associated congestion. Across East Dunbartonshire, traffic volumes have returned to pre-pandemic levels however, pollutant levels remain satisfactory.

East Dunbartonshire Council has four continuous automatic analysers; one in Bishopbriggs, one in Bearsden, one in Kirkintilloch and one in Milngavie. Pollutant levels can be viewed on the Council web page or Scottish Air Quality website. Major equipment failures at Bearsden have led to the NO_2 monitor at this location remaining offline during 2024 while a replacement solution has been investigated.

All automatic monitoring stations report NO_2, PM_{10} and $PM_{2.5}$ compliance with both the annual and 24-hour Air Quality Strategy objectives continually maintained.

During 2024, all 30 passive monitoring locations were compliant with the NO_2 Air Quality Strategy objective of 40 µg/m^3. No sites reported a concentration within 10% of the annual mean NO_2 Air Quality Strategy objective of 40 µg/m^3 within East Dunbartonshire.

No diffusion tube monitoring sites reported an annual mean NO_2 concentration greater than 60 µg/m^3, therefore in accordance with LAQM.TG(22) it is therefore not likely that there have been any exceedances of the 1-hour NO_2 Air Quality Strategy objective in these areas. Additionally, the automatic monitoring stations located in East Dunbartonshire all reported concentrations below the 1-hour NO_2 Air Quality Strategy objective of 200 µg/m^3.

Actions to Improve Air Quality

The Traffic-Free Schools project has introduced traffic restrictions around four Primary schools during drop-off and pick-up times, significantly reducing emissions around school gates and improving safety. The success of the project this far has led to a further three schools running a pilot of the project.

East Dunbartonshire Council are in the process of upgrading the A807 corridor between Milngavie and Torrance to improve active travel opportunities. The first stage of this upgrade has now been completed, with preparatory work on the next phase having commenced.

The new Westerhill Development Road, running between Lochgrog roundabout and Crosshill Road to the north, will deliver the fifth and final phase of the Bishopbriggs relief road. When complete, this new route will divert a portion of road traffic away from the existing air quality management area on Kirkintilloch Road and additionally lead to an improved connection to the M80.

East Dunbartonshire has a successful iBike programme operated in partnership with Sustrans Scotland. The iBike officers work intensely across local schools delivering practical lessons on active travel embedded within the school curriculum. This includes learning to cycle sessions, bike skills sessions, led rides, led walks, bike maintenance sessions, bike clubs etc. This encourages younger people to travel more actively, and evidence shows that iBike schools tend to have higher levels of active travel on average than non-iBike schools.

Numerous programmes of tree and wildflower planting continue to be undertaken throughout the Council area, as evidence suggests that a layering effect of hedgerow or shrubs; trees and meadows is effective in trapping airborne particulate matter.

The Kirkintilloch Road Air Quality Management Area currently remains in place despite no breaches having occurred for several years and is likely to be revoked soon. The Air Quality Action Plan for the Kirkintilloch Road Air Quality Management Area is currently being updated, with most measures having been achieved.

Local Priorities and Challenges

Our priority in the coming year is to ensure the smooth running of our monitoring network to gain as accurate a picture as possible of air quality levels across East Dunbartonshire. Due to the failure of the NO_2 monitor at Bearsden, an alternative monitoring system using lower

cost sensors has been agreed with both SEPA and the Scottish Government, with a tendering process due to take place for provision of the system mid-2025. This will provide ongoing air quality monitoring at Bearsden. In the meantime, an indicative sensor has been located at Bearsden Cross for several months to provide assurance that NO_2 levels remain within objective levels.

Complaints concerning smoke and smell associated with wood burning stoves remains a challenge and has possibly been exacerbated due to the increase over recent years of people working from home. Such complaints within smoke control areas continue to pose a particular challenge in many cases. Multiple complaints were also submitted concerning bonfires, chimineas, fire pits and BBQs

How to Get Involved

Further information on air quality in East Dunbartonshire can be found on the Council website Pollution page. You can visit the Scottish Air Quality website https://www.scottishairquality.scot/ and view live air quality data in East Dunbartonshire. You can register for text and email alerts when air quality is forecast to be poor for the day ahead and can visit the Education pages and involve your children and family – all on the same link which also offers a free app for iPhone and Android for keeping you updated about air pollution in Scotland.

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1 Local Air Quality Management

This report provides an overview of air quality in East Dunbartonshire Council during 2024. It fulfils the requirements of Local Air Quality Management (LAQM) as set out in Part IV of the Environment Act (1995), as amended by the Environment Act (2021), and the relevant Policy and Technical Guidance documents.

The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas, and to determine whether or not the air quality objectives are likely to be achieved. Where an exceedance is considered likely the local authority must declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) setting out the measures it intends to put in place in pursuit of the objectives. This Annual Progress Report (APR) summarises the work being undertaken by East Dunbartonshire Council to improve air quality and any progress that has been made.

Table 1.1 – Summary of Air Quality Objectives in Scotland

Pollutant	Air Quality Objective Concentration	Air Quality Objective Measured as	Date to be Achieved by
Nitrogen dioxide (NO_2)	200 µg/m^3 not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
Nitrogen dioxide (NO_2)	40 µg/m^3	Annual mean	31.12.2005
Particulate Matter (PM_{10})	50 µg/m^3, not to be exceeded more than 7 times a year	24-hour mean	31.12.2010
Particulate Matter (PM_{10})	18 µg/m^3	Annual mean	31.12.2010
Particulate Matter ($PM_{2.5}$)	10 µg/m^3	Annual mean	31.12.2021
Sulphur dioxide (SO_2)	350 µg/m^3, not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
Sulphur dioxide (SO_2)	125 µg/m^3, not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
Sulphur dioxide (SO_2)	266 µg/m^3, not to be exceeded more than 35 times a year	15-minute mean	31.12.2005
Benzene	3.25 µg/m^3	Running annual mean	31.12.2010
1,3 Butadiene	2.25 µg/m^3	Running annual mean	31.12.2003
Carbon Monoxide	10.0 mg/m^3	Running 8-Hour mean	31.12.2003

2 Actions 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 must prepare publish and implement an Air Quality Action Plan (AQAP) within the shortest possible time and no later than 12 months of the date of AQMA Designation Order. The AQAP must set out measures the local authority intends to put in place in pursuit of the objectives within the shortest possible time Measures should be provided with milestones and a final date for completion. The action plan itself should have a timescale for completion and for revocation of the AQMA. Where measures to reduce air pollution may require a longer timescale an action plan shall be reviewed and republished within five years of initial publication and then five-yearly thereafter.

A summary of AQMAs declared by East Dunbartonshire Council can be found in Table 2.1. Further information related to declared or revoked AQMAs, including maps of AQMA boundaries are available online at AQMA webpage.

Table 2.1 – Declared Air Quality Management Areas

AQMA Name	Pollutants and Air Quality Objectives	City / Town	Description	Action Plan
Kirkintilloch Road AQMA	NO_2 Annual Mean PM_{10} Annual Mean	Bishopbriggs	The designated area incorporates a 60 metre wide corridor along the A803 Kirkintilloch Road, Bishopbriggs bordered on the South by the Council's boundary with Glasgow City and by a line 30 metres to the North of Cadder Roundabout	The Bishopbriggs Air Quality Action Plan is currently outdated, and an update is due shortly. The majority of previously identified measures have been achieved and objective levels met

2.2 Implementation of Air Quality Action Plan(s) and/or measures to address air quality

In order to ensure that local authorities implement the measures within an action plan by the timescales stated within that plan, the Scottish Government expects authorities to submit updates on progress through the APR process. East Dunbartonshire Council has taken forward a number of measures within the action plan during the current reporting year of 2024 in pursuit of improving local air quality and meeting the air quality objectives within the shortest possible time. Details of all measures completed, in progress or planned are set out in Table 2.2. More detail on these measures can be found in the air quality Action Plan relating to Kirkintilloch Road AQMA.

Table 2.2 – Progress on Measures to Improve Air Quality

Measure No.	Measure	Category	Expected/Actual Completion year	Organisations Involved	Measure Status	Funding Status	Key Milestones	Progress	Barriers to implementation
1	Traffic restrictions around several primary schools during drop-off and pick-up times:	Traffic Management	Ongoing	East Dunbartonshire Council	In Progress	Funded via Transport Scotland	Traffic restrictions at four pilot schools successful and now permanently implemented	Three further primary schools now included in Phase 2 of project Further information is available online at: Traffic-Free Schools - East Dunbartonshire Council	Suitability of each school area needs to be individually assessed
2	Improvements to A807 corridor between Milngavie and Torrance promoting active travel	Promoting Travel Alternatives	2028	East Dunbartonshire Council Transport Scotland Strathclyde Partnership for Transport	In progress	Funded via Transport Scotland's Active Travel Infrastructure Teir 1 and Teir 2 Funds	Phase 1a completed	Phase 1b currently in detailed design phase Further information is available online at A807 Active Travel Corridor - East Dunbartonshire Council	-

3	New Westerhill Development Road providing the final phase of the Bishopbriggs relief road.	Traffic Management	2028	-	In progress	City deal projects subject to funding being available following submission of business cases to Glasgow City Region	Detailed Westerhill Development Road plans now in place and proceeding through the planning process.	The new Westerhill Development Road road will provide an alternative route and help divert traffic away from the AQMA in Bishopbriggs, further improving air quality City Deal - East Dunbartonshire Council	Proposed alterations to the A803 corridor at the Kirkintilloch Road AQMA have been deferred and will now be implemented should future funding permit.
4	Maintain contact with Scottish Govt re adoption of national air quality measures	Policy guidance and development control	Ongoing	-	In progress	Annual funding via Scottish Government LAQM Grant	National objectives currently met for air quality throughout East Dunbartonshire	NO_2, PM_{10} and $PM_{2.5}$ monitoring continues at sites in Bishopbriggs, Bearsden, Milngavie and Kirkintilloch with grant funding utilised to maintain, calibrate and service associated equipment. A new air quality sensor will additionally be provided at Bearsden to replace the aged roadside monitor. This is being	-

								funded via Scottish Government air quality grant.	
5	Promote air quality with planning and transport strategies and other Council Plans	Policy guidance and development control	Ongoing	-	In progress	Partially funded via developer contributions	-	LDP2 in place with ongoing preparation work being undertaken for LDP3. Local Development Plan 2 | East Dunbartonshire Council The Active Travel Strategy 2023-2030 aims to accelerate the modal shift towards zero-carbon travel. Active Travel Strategy 2023-30: Evidence Report A - East Dunbartonshire Council Local Transport Strategy 2020-2025 in place. Local Transport Strategy	Updates to various Transport Strategies delayed due to staff vacancies.

								2020-2025 - East Dunbartonshire Council.	
6	Quality bus/bike partnerships	Alternatives to private vehicle use	Ongoing	East Dunbartonshire Council Transport Scotland	In progress	Funded by Transport Scotland	Jubilee Path and Craigdhu Wedge Phase 1 completed Better Points App introduced to encourage the use of sustainable transport and active travel Further information is available online at: BetterPoints - East Dunbartonshire	Capital Path Improvements for 2025/26 include Craigdhu Wedge Phase 2 and Cluny Park, Bearsden	Active Travel Strategy delayed due to staff vacancies.
7	Mitigation of emissions from developments within and around the AQMA	Policy guidance and development control	Ongoing	East Dunbartonshire Council	In progress	Partially funded via developer contributions.	-	Review and updating of Council policies includes consideration of air quality objectives. Climate Action Plan is currently being developed which includes significant ties to transportation policies as	Local transport strategy update and active travel strategies currently delayed due to staff vacancies

								well as air quality.	
8	Air quality planning guidance	Policy guidance and development control	Ongoing	East Dunbartonshire Council	In progress	Partially funded via developer contributions	Air quality planning guidance adopted 2018 and updated 2022.	Air quality Planning guidance to be updated 2025/26 Planning Guidance - East Dunbartonshire Council	-
9	Council fleet replacement programme	Vehicle fleet efficiency	Ongoing	East Dunbartonshire Council	In progress	Not funded	-	80% of pool cars are electric, as are 15 fleet vehicles.	Shortage of electric vehicle charging points limits further uptake. Fleet replacement programme aims to reduce fleet size while maximising capacity
10	Environmental fleet recognition scheme	Vehicle fleet efficiency	Ongoing	East Dunbartonshire Council TRL Ltd	In progress	Fully funded by annual Scottish Government LAQM Grant	-	The East Dunbartonshire fleet scheme has successfully recruited 240 commercial vehicle operators as members. These members operate 7,727 commercial	

								vehicles in the local area Scottish Government grant funding is used to progress scheme within EDC.	
11	Vehicle idling enforcement	Promoting low emission transport	Ongoing	East Dunbartonshire Council	In progress	Partially funded by Scottish Government Grant	-	Scottish Government air quality funding is used to carry out regular patrols around schools at drop off and pick-up times, particularly in winter months. Awareness raising campaigns in local media are conducted where funding permits to promote drivers to switch off their engines while parked. Individual complaints of idling vehicles are responded to	

								where possible.	
12	Management of biomass installations	Promoting low emission plants	Ongoing	East Dunbartonshire Council	In progress	Not funded	-	No biomass being used in new EDC assets. All Council new-build now using CHP and/or air source heat pumps. All planning applications involving biomass/ wood burning appliances have an appropriate informative added to ensure appropriate appliances and/or fuels are used. Reactive investigation work undertaken in response to complaints.	Many domestic installations do not currently require planning permission or other regulatory checks.
13	Council smart working	Alternatives to private vehicle use	Ongoing	East Dunbartonshire Council	In progress	Not funded	Reduced emissions from private vehicles used to attend place of work	Reduced emissions from private vehicles used to attend place of work and reduced requirement	-

								for travel outwith Council area. Flexible working policy supports home working where appropriate.	
14	Green travel planning	Alternatives to private vehicle use	Ongoing	East Dunbartonshire Council	In progress	Not currently funded	Pool bike training for staff successfully reintroduced during 2023	Pool bikes have been available for staff use for several years to facilitate workplace travel between Council offices and leisure use by staff, however, there has been a reduction in staff movement over recent years due to working from home.	The use of pool bikes fell to almost zero post pandemic. The predominance of staff working from home and altered habits are likely to blame.
15	Air quality awareness raising and education	Public Information	Ongoing	East Dunbartonshire Council	In progress	Partially funded Annual funding by Scottish Government Grants	-	Various public awareness projects undertaken, including radio adverts and internet advertising.	-

								Air quality projects in schools being promoted as part of science and maths curriculum.	
16	Travel plans for large employers	Alternatives to private vehicle use	Ongoing	East Dunbartonshire Council	In progress	Not funded	-	Strategic development and regeneration team ensure all relevant commercial planning applications have travel plan conditions applied in accordance with current best practice.	-
17	Domestic emissions and fuel consumption awareness raising	Domestic solid fuel burning	Ongoing	East Dunbartonshire Council	In progress	Partial funding via Local Education Improvement Programme	-	Support for awareness raising of energy efficient measures by Scottish and UK government.	-
18	Tree and wild flower planting	Public Information	Ongoing	East Dunbartonshire Council	In progress	Partial funding via Buglife – the Invertebrate Conservation Trust	Over 16,500 m2 of new wildflower meadow planted in 2024	Trees, shrubs and wildflower meadows planted where possible to improve air	-

								quality and trap particulate matter.	
19	Joint health improvement plan	Public Information	Ongoing	East Dunbartonshire Council East Dunbartonshire Health & Social Care Partnership	In progress	Not funded	-	The Local Outcomes Improvement Plan aims for the council and the Health & Social Care Partnership to work with local communities and residents in a joint effort to improve health, address health inequalities and increase awareness of active travel to help mitigate the impact of poor physical and mental health and air quality related health effects on the NHS.	-
20	Green Infrastructure	Public Information	Ongoing	East Dunbartonshire Council	In progress	Partially funded via developer contributions	-	LDP Supplementary Guidance on Green Infrastructure and Green Network is	-

								available online. Green Infrastructure and Green Network 2023 - East Dunbartonshire Council	
21	Taxi Licensing	Promoting low emission transport	Ongoing	East Dunbartonshire Council	In progress	Not funded	-	Frequency of testing increased to twice a year for older vehicles.	-
22	Soft measures – Healthy Habits	Promoting travel alternatives	Ongoing	East Dunbartonshire Council	In progress	SPT – People and Place Programme 2025/26	-	The Healthy Habits project encourages local people to walk and cycle more often – including working with Education on led walks and led cycles.	One year funding for active travel promotion.
23	Improvements to SPT prioritised bus stops	Promoting travel alternatives	Completed	East Dunbartonshire Council	Completed	Not funded	-	Real Time Passenger Information units have been installed in both Bearsden & Bishopbriggs over the past 6 years to encourage	No future funding expected.

								public transport use.	
24	Vehicle tracking and telematics	Vehicle fleet efficiency	Completed	East Dunbartonshire Council	Completed	Not funded	100% of EDC fleet fitted with tracking.	Master naught vehicle tracking installed in all fleet and pool vehicles	-

3 Air Quality Monitoring Data and Comparison with Air Quality Objectives

3.1 Summary of Monitoring Undertaken

3.1.1 Automatic Monitoring Sites

This section sets out what monitoring has taken place and how local concentrations of the main air pollutants compare with the objectives.

East Dunbartonshire Council undertook automatic (continuous) monitoring at four sites during 2024. Table A.1 in Appendix A shows the details of the sites. National monitoring results are available at UKAir.

The Bearsden NO_2 monitoring station is now permanently offline due to a technical fault and was removed from service in 2024. A new sensor-based monitoring system is proposed to replace it in 2025 to provide ongoing assurance of compliance with objectives.

Maps showing the location of the monitoring sites are provided in Appendix D: Maps Showing the Location of Monitoring Sites. Further details on how the monitors are calibrated and how the data has been adjusted are included in Appendix C: Supporting Technical Information / Air Quality Monitoring Data QA/QC.

3.1.2 Non-Automatic Monitoring Sites

East Dunbartonshire Council undertook non-automatic (passive) monitoring of NO_2 at 30 sites during 2024. Table A.2 in Appendix A: Monitoring Results shows the details of the sites.

Maps showing the location of the monitoring sites are provided in Appendix D: Maps Showing the Location of Monitoring Sites. Further details on Quality Assurance/Quality Control (QA/QC) and bias adjustment for the diffusion tubes are included in Appendix C: Supporting Technical Information / Air Quality Monitoring Data QA/QC.

A detailed review of all monitoring sites will be conducted in 2025 with monitoring locations being added or removed as required.

3.1.3 Other Monitoring Activities

A temporary low-cost sensor has been deployed at Bearsden Cross, monitoring NO_2, PM_{10} and $PM_{2.5}$. While the sensor has not been operational for a sufficient period to provide meaningful long-term data, daily monitoring of levels indicates ongoing compliance with objective levels.

A further low-cost sensor was used in Lenzie during 2024 in response to a specific complaint and to provide validation of a third-party assessment. No concerns nor breaches of air quality objective levels were detected during this time-limited deployment.

3.2 Individual Pollutants

The air quality monitoring results presented in this section are, where relevant, adjusted for annualisation and bias. Further details on adjustments are provided in Appendix C: Supporting Technical Information / Air Quality Monitoring Data QA/QC.

3.2.1 Nitrogen Dioxide (NO_2)

Table A.3 in Appendix A: Monitoring Results compares the ratified monitored NO_2 annual mean concentrations for the past five years with the air quality objective of 40 µg/m^3 at automatic monitoring sites.

Table A.4 in Appendix A: Monitoring Results compares the adjusted monitored NO_2 annual mean concentrations for the past five years with the air quality objective of 40 µg/m^3 at non automatic monitoring sites.

For diffusion tubes, the full 2024 dataset of monthly mean values is provided in Appendix B: Full Monthly Diffusion Tube Results for 2024.

Table A.5 in Appendix A: Monitoring Results compares the ratified continuous monitored NO_2 hourly mean concentrations for the past five years with the air quality objective of 200 µg/m^3, not to be exceeded more than 18 times per year.

All automatic monitoring stations located in East Dunbartonshire continue to report compliance with the annual mean NO_2 AQS objective.

During 2024 there were no exceedances of the NO_2 AQS objective, with all passive monitoring sites recording concentrations well below the objective. From 2023 to 2024, 26 sites reported decreases and four reported an increases in NO_2. The maximum NO_2 annual mean concentration in 2024 was 16.4 µg/m^3, reported at Bishopbriggs 13 which is located along Colston Road.

There are no passive monitoring sites where the NO_2 annual mean is greater than 60 µg/m^3, therefore in accordance with Defra LAQM.TG(22) there are no sites likely to be at risk of exceeding the 1-hour mean AQS objective.

The Kirkintilloch Road AQMA continues to report compliance and has achieved five years of full compliance. While air quality in the Kirkintilloch Road AQMA has been complaint with all legal objectives since 2013, significant proposed construction and alterations to infrastructure along the A803 corridor were considered likely to alter or disrupt the validity of air quality monitoring in the area, so the AQMA was retained. The most significant of these plans have subsequently been deferred indefinitely and as such the potential revocation of the AQMA will now be investigated.

3.2.2 Particulate Matter (PM_{10})

Table A.6 in Appendix A: Monitoring Results compares the ratified and adjusted monitored PM_{10} annual mean concentrations for the past five years with the air quality objective of 18 $\mu g/m^3$.

Table A.7 in Appendix A: Monitoring Results compares the ratified continuous monitored PM_{10} daily mean concentrations for the past five years with the air quality objective of 50 $\mu g/m^3$, not to be exceeded more than seven times per year.

During 2024, all automatic monitoring sites recorded PM_{10} concentrations well below the 40 $\mu g/m^3$ PM_{10} AQS objective. There were a number of minor increases and reductions at all monitors during 2024, with an average decrease of 1%. Overall, the annual mean concentration remains relatively stable and consistent over the last five years.

There were no 24-hour mean concentrations in excess of 50 $\mu g/m^3$ in 2024, therefore compliance to the 24-hour AQS objective.

Data capture at one automatic monitoring station EDB2 (Bearsden) in 2024 had a data capture between 25% and 75%, annualisation was carried out in accordance with LAQM.TG(22), as shown in Table C.2.

3.2.3 Particulate Matter ($PM_{2.5}$)

Table A.8 in Appendix A compares the ratified and adjusted monitored $PM_{2.5}$ annual mean concentrations for the past five years with the air quality objective of 10 $\mu g/m^3$.

During 2024 all automatic monitoring sites recorded $PM_{2.5}$ concentrations well below the $PM_{2.5}$ AQS target. All four stations recorded minor increases from 2023. Overall, the annual mean concentrations remains relatively stable and consistent over the last five years.

Data capture at one automatic monitoring station EDB2 (Bearsden) in 2024 had a data capture between 25% and 75%, annualisation was carried out in accordance with LAQM.TG(22), as shown in Table C.3.

4 New Local Developments

East Dunbartonshire Council requests air quality impact assessments in line with the East Dunbartonshire Air Quality Planning Guidance where it is considered the application may affect air quality. This also applies to all East Dunbartonshire Council led projects.

4.1 Road Traffic Sources

The following new roads and junctions were identified by East Dunbartonshire Council in 2024.

New Roads in East Dunbartonshire

- Tom Johnston Place, Kirkintilloch
- Rotary Way, Kirkintilloch
- Braes O Yetts Drive, Kirkintilloch
- Limekilns Drive, Kirkintilloch
- Lapwing Drive, Kirkintilloch
- Curlew Court, Kirkintilloch
- Linnet Drive, Kirkintilloch
- Partridge Place, Kirkintilloch
- Kingfisher Road, Kirkintilloch
- Ninian Crescent, Kirkintilloch
- Tom Johnston Way, Kirkintilloch
- Luggie Avenue, Kirkintilloch
- Brabazon Court, Kirkintilloch
- Hill View, Kirkintilloch
- Auld Isle View, Kirkintilloch
- Salmon Mews, Kirkintilloch
- Silver Birch Drive, Lenzie
- Fair Wind Way, Lenzie
- Drumgrew Quadrant, Twechar
- Turnyhill Road, Twechar
- Westerhill Development Road, Bishopbriggs (proposed)

All of the above roads serve recently constructed housing developments except Westerhill Development Road which is the final phase of the Bishopbriggs Relief Road.

New Junctions in East Dunbartonshire

- Braes O Yetts Drive, Kirkintilloch at Waterside Road
- Westerhill Development Road (proposed) at Westerhill Road, Bishopbriggs
- Westerhill Development Road (proposed) at Crosshill Road, Bishopbriggs

4.2 Other Transport Sources

No new sources of emissions relating to transport were identified by East Dunbartonshire Council in 2024.

4.3 Industrial Sources

One new industrial emission source was identified upon consultation with Scottish Environment Protection Agency (SEPA):

- Gartshore Works, Twechar, Kilsyth, East Dunbartonshire
    - Ref WML/L/5003422

4.4 Commercial and Domestic Sources

One new commercial source of emissions was identified upon consultation with SEPA

- Bishopbriggs Crematorium, Crosshill Road, Bishopbriggs
    - Ref PPC/B/5007290

4.5 New Developments with Fugitive or Uncontrolled Sources

No new sites were identified by East Dunbartonshire Council in 2024.

5 Planning Applications

East Dunbartonshire Council requests an air quality impact assessment in line with the East Dunbartonshire Air Quality Planning Guidance and where it is considered the application may affect air quality.

No major developments that would have significant bearing upon air quality were brought forward in 2024; however initial plans were laid for the Westerhill Development Road (formerly referred to as phase 5 of the Bishopbriggs Relief Road) and a planning application for this new 2 km of carriageway has now been submitted (TP/ED/25/0151). The Environmental Impact Assessment for this development concluded that the operational road will have no significant effect on local air quality.

Several further developments of interest are ongoing and progressing towards completion including:

- Ongoing development of housing (TP/ED/19/0816) in Bishopbriggs.
- Ongoing residential housing site at Fauldhead (TP/ED/21/0365) and Chryston Road (TP/ED/21/0366).
- Ongoing retail foodstore (TP/ED/21/0465) at Woodilee Road, Lenzie.
- Ongoing subdivision of B&Q to form four retail units (TP/ED/22/0114) at Strathkelvin Retail Park, Bishopbriggs.

There were additionally 21 planning applications concerning domestic properties which included the installation of wood burning stoves.

6 Conclusions and Proposed Actions

6.1 Conclusions from New Monitoring Data

The passive NO_2 monitoring data from 2024 shows that concentrations at 26 out of 30 monitoring locations decreased from 2023 levels, with an average decrease of 8.4%. Four sites reported minor increases from 2023.

Monitored NO_2, PM_{10} and $PM_{2.5}$ concentrations at all automatic monitoring stations continue to report annual means well below the AQS annual mean objectives for NO_2, PM_{10} and $PM_{2.5}$. In regard to the short term AQS objective for NO_2, in which the 200 µg/m^3 must not be exceeded more than 18 times/year, and the PM_{10} AQS objective where there should be no more than 35 24-hour mean concentrations greater than 50 µg/m^3, there were no exceedances reported for either pollutant in 2024.

6.2 Conclusions relating to New Local Developments

Ongoing implementation and development of local strategies, as detailed in Table 2.2, will continue to assist in reducing pollutant concentrations and emissions. The Council also continues to request air quality assessments for new planning applications where relevant, to ensure that there is no significant degradation of air quality or that no new sensitive receptors are being introduced into areas of existing poor air quality.

6.3 Proposed Actions

East Dunbartonshire Council will continue to actively monitor NO_2 concentrations, reviewing the diffusion tube network where necessary.

The Kirkintilloch Road AQMA continues to report compliance and has achieved five years of full compliance. While air quality in the Kirkintilloch Road AQMA has been complaint with all legal objectives since 2013, significant proposed construction and alterations to infrastructure along the A803 corridor were considered likely to alter or disrupt the validity of air quality monitoring in the area, so the AQMA was retained. The most significant of these plans have subsequently been deferred indefinitely and as such the potential revocation of the AQMA will now be investigated.

Appendix A: Monitoring Results

Table A.1 – Details of Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Pollutants Monitored	In AQMA?	Which AQMA?	Monitoring Technique	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Inlet Height (m)
EDB1	Bishopbriggs	Roadside	260995	670130	NO_2, PM_{10} and $PM_{2.5}$	Yes	Kirkintilloch Road AQMA	Chemiluminescent; FIDAS	5.0	2.0	2.0
EDB2	Bearsden	Kerbside	254269	672067	PM_{10} and $PM_{2.5}$	No	-	FIDAS	<2.0	1.0	2.0
EDB3	Kirkintilloch	Kerbside	265675	673516	NO_2, PM_{10} and $PM_{2.5}$	No	-	Chemiluminescent; FIDAS	<2.0	1.0	3.0
EDB4	Milngavie	Roadside	255328	674115	NO_2, PM_{10} and $PM_{2.5}$	No	-	Chemiluminescent; FIDAS	<40m	1.0	3.0

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.

Table A.2 – Details of Non-Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	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)
1	Bishopbriggs 6	Roadside	261016	670198	NO_2	Yes – Kirkintilloch Road	2.0	2.0	No	2.5
2	Bishopbriggs 13	Roadside	260549	669312	NO_2	Yes – Kirkintilloch Road	5.0	2.0	No	2.4
3	Bishopbriggs 14a	Roadside	260995	670130	NO_2	Yes – Kirkintilloch Road	42.0	2.0	Yes	1.8
4	Bishopbriggs 14b	Roadside	260995	670130	NO_2	Yes – Kirkintilloch Road	42.0	2.0	Yes	1.8
5	Bishopbriggs 14c	Roadside	260995	670130	NO_2	Yes – Kirkintilloch Road	42.0	2.0	Yes	1.8
6	Kirkintilloch 15	Roadside	265641	673497	NO_2	No	2.0	2.0	No	2.8
7	Kirkintilloch 16	Roadside	265697	673524	NO_2	No	3.0	2.0	No	2.4
8	Kirkintilloch 17a	Kerbside	265675	673516	NO_2	No	3.0	1.0	Yes	1.9
9	Kirkintilloch 17b	Kerbside	265675	673516	NO_2	No	3.0	1.0	Yes	1.9
10	Kirkintilloch 17c	Kerbside	265675	673516	NO_2	No	3.0	1.0	Yes	1.9
11	Bearsden 1 (118 Drymen Rd)	Roadside	254218	672193	NO_2	No	3.0	2.0	No	2.4

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	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)
12	Bearsden 3 (5 Ravelston Rd)	Urban Background	254655	670158	NO_2	No	8.0	5.0	No	2.4
15	Bearsden 8	Roadside	254275	672047	NO_2	No	18.0	2.0	No	1.8
16	Bearsden 9	Roadside	254751	670621	NO_2	No	30.0	2.0	No	1.8
19	Bearsden 14	Roadside	254877	671000	NO_2	No	8.0	2.0	No	2.4
20	Bearsden 15	Roadside	254898	671023	NO_2	No	2.0	2.0	No	2.5
21	Bearsden 16a	Kerbside	254269	672067	NO_2	No	2.0	1.0	No	1.8
22	Bearsden 16b	Kerbside	254269	672067	NO_2	No	2.0	1.0	No	1.8
23	Bearsden 16c	Kerbside	254269	672067	NO_2	No	2.0	1.0	No	1.8
24	Milngavie 4	Roadside	255728	674486	NO_2	No	5.0	2.0	No	2.6
26	Milngavie 9	Urban Background	255331	674214	NO_2	No	7.0	2.0	No	2.4
27	Milngavie 10a	Roadside	255329	674114	NO_2	No	40.0	10.0	Yes	2.0
28	Milngavie 10b	Roadside	255329	674114	NO_2	No	40.0	10.0	Yes	2.0
29	Milngavie 10c	Roadside	255329	674114	NO_2	No	40.0	10.0	Yes	2.0
30	Bishopbriggs 16	Roadside	260580	669533	NO_2	Yes – Kirkintilloch Road	2.0	2.0	No	2.4

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	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)
31	Bishopbriggs 17	Roadside	260552	669320	NO_2	Yes – Kirkintilloch Road	2.0	2.0	No	2.0
32	Bearsden 17	Roadside	254258	672077	NO_2	No	2.0	2.0	No	2.6
33	Bearsden 18	Roadside	254275	672069	NO_2	No	2.0	2.0	No	2.4
34	Kirkintilloch 18	Kerbside	265674	673521	NO_2	No	2.0	2.0	No	2.4
35	Bishopbriggs 21	Roadside	261033	669650	NO_2	No	6.0	2.0	No	2.2
36	Bishopbriggs 22	Roadside	260571	669339	NO_2	Yes – Kirkintilloch Road	5.0	2.0	No	2.3
37	Bishopbriggs 23	Roadside	260759	669999	NO_2	Yes – Kirkintilloch Road	5.0	2.0	No	2.2
39	Bishopbriggs 25	Urban Background	260617	670338	NO_2	No	6.0	2.0	No	2.4
40	Kirkintilloch 19	Roadside	265602	673583	NO_2	No	2.0	2.0	No	2.5
44	Bearsden 19	Roadside	255403	673236	NO_2	No	5.0	2.0	No	2.2
48	Bishopbriggs 26	Roadside	262112	670517	NO_2	No	3.0	1.0	No	2.4
49	Bishopbriggs 30	Roadside	262398	669436	NO_2	No	3.0	1.0	No	2.4
50	Milngavie 13	Roadside	255183	674409	NO_2	No	3.0	1.0	No	2.4

Notes:

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

(2) N/A if not applicable.

Table A.3 – 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 (%) (1)	Valid Data Capture 2024 (%) (2)	2020	2021	2022	2023	2024
EBD1	254269	672067	Roadside	99.8	99.8	20.0	16.8*	16.2*	16.2	14.5
EBD3	265675	673516	Kerbside	99.7	99.7	18.0	19.6	18.2	17.6	15.9
EBD4	255328	674115	Roadside	99.7	99.7	15.0	16.2	14.3*	13.7*	12.7

Notes:

Exceedances of the NO_2 annual mean objective of 40 µg/m^3 are shown in bold.

NO_2 annual means exceeding 60 µg/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" as per LAQM.TG22 if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

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

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

(3) Annualised means highlighted with (*)

Table A.4 – 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 2024 (%) [2]	2020	2021	2022	2023	2024
1	261016	670198	Roadside	92.5	92.5	17.8	17.1	16.6	14.0	11.3
2	260549	669312	Roadside	100.0	100.0	23.3	27.6	24.0	18.4	16.4
3, 4, 5	260995	670130	Roadside	100.0	100.0	16.5	15.0	15.9	12.4	10.8
6	265641	673497	Roadside	100.0	100.0	17.3	17.9	17.5	14.8	13.1
7	265697	673524	Roadside	100.0	100.0	20.3	20.6	20.5	17.3	13.1
8, 9, 10	265675	673516	Kerbside	100.0	100.0	18.3	21.3	20.2	16.5	13.4
11	254218	672193	Roadside	100.0	100.0	16.9	19.3	18.4	14.2	11.8
12	254655	670158	Urban Background	90.6	90.6	11.4	12.4	11.0	8.0	7.7
15	254275	672047	Roadside	100.0	100.0	20.9	22.2	20.7	16.2	13.4
16	254751	670621	Roadside	100.0	100.0	17.0	17.9	15.4	12.7	11.0
19	254877	671000	Roadside	100.0	100.0	21.4	22.0	24.5	16.6	12.6
20	254898	671023	Roadside	100.0	100.0	22.9	19.3	19.8	15.1	13.8
21, 22, 23	254269	672067	Kerbside	100.0	100.0	22.5	22.8	22.6	18.2	15.7
24	255728	674486	Roadside	100.0	100.0	17.7	20.9	16.7	12.1	10.1
26	255331	674214	Urban Background	90.6	90.6	14.9	21.2	16.3	12.9	11.2
27, 28, 29	255329	674114	Roadside	100.0	100.0	14.3	16.3	14.2	11.4	9.6
30	260580	669533	Roadside	90.6	90.6	18.1	16.9	17.6	18.9	12.0
31	260552	669320	Roadside	100.0	100.0	19.6	19.8	18.5	11.4	12.0

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 2024 (%) [2]	2020	2021	2022	2023	2024
32	254258	672077	Roadside	100.0	100.0	20.6	22.7	23.2	13.0	14.6
33	254275	672069	Roadside	100.0	100.0	19.7	19.1	19.4	17.0	15.3
34	265674	673521	Kerbside	100.0	100.0	16.6	16.8	17.3	13.2	11.8
35	261033	669650	Roadside	100.0	100.0	12.0	12.0	12.1	7.3	7.9
36	260571	669339	Roadside	100.0	100.0	23.6	24.4	22.0	17.1	15.7
37	260759	669999	Roadside	100.0	100.0	21.0	19.2	21.0	14.9	14.3
39	260617	670338	Urban Background	100.0	100.0	12.7	11.4	12.0	7.9	7.9
40	265602	673583	Roadside	100.0	100.0	14.0	15.4	12.8	10.6	10.1
44	255403	673236	Roadside	100.0	100.0	14.2	18.0	12.5	10.9	10.6
48	262112	670517	Roadside	100.0	100.0	12.5	16.1	13.2	10.7	11.1
49	262398	669436	Roadside	90.6	90.6	16.7	19.2	16.3	14.6	13.5
50	255183	674409	Roadside	90.6	90.6	14.1	15.3	13.1	10.0	9.8

☒ **Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.**

☒ **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:

Exceedances of the NO_2 annual mean objective of 40 µg/m^3 are shown in bold.

NO_2 annual means exceeding 60 µg/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” as per LAQM.TG(22) if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

(4) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

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

Figure A.1 – Trends in Annual Mean NO_2 Concentration in Kirkintilloch Road AQMA

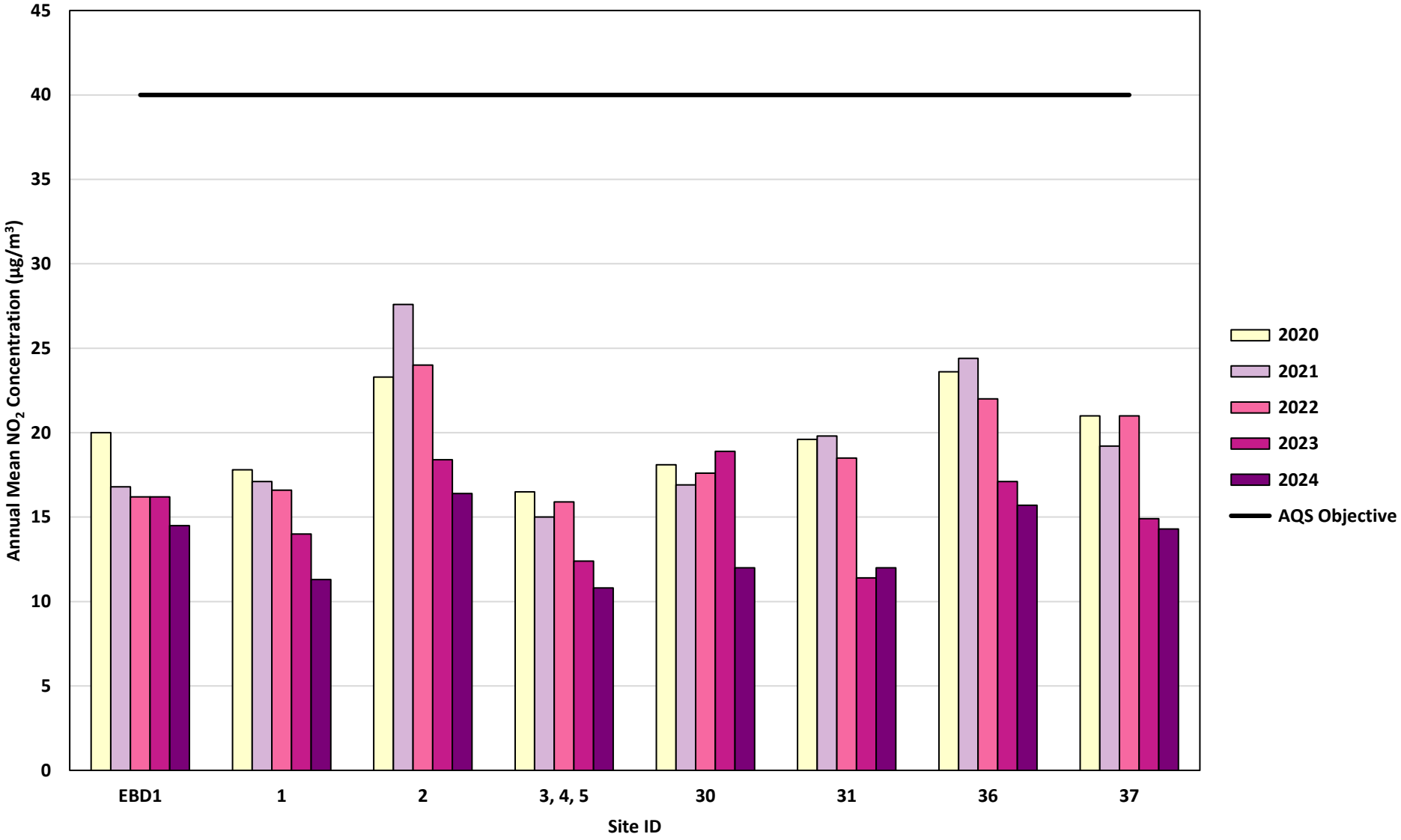


Figure A.2 – Trends in Annual Mean NO_2 Concentration in Bishopbriggs

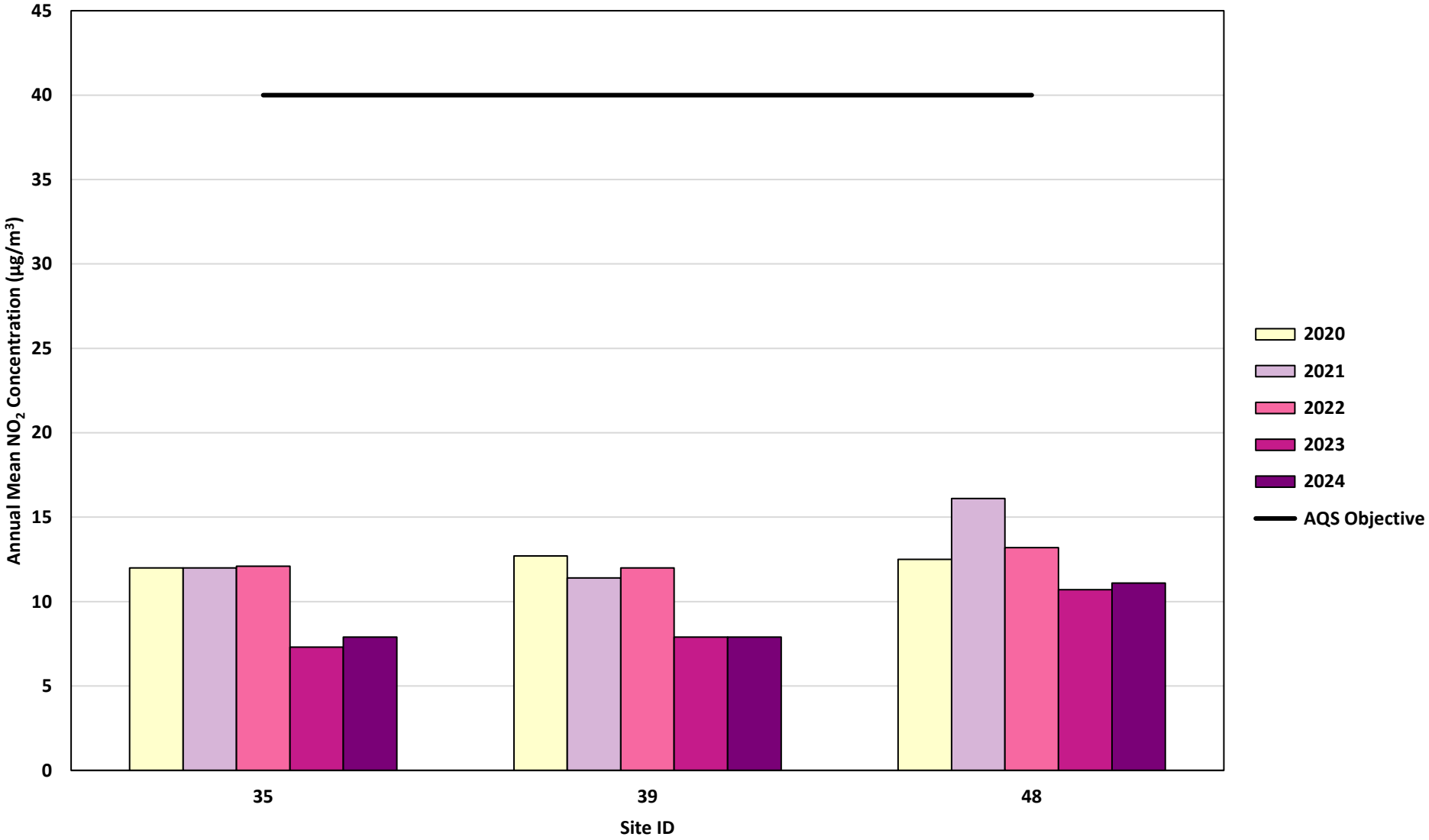


Figure A.3 – Trends in Annual Mean NO_2 Concentration in Kirkintilloch

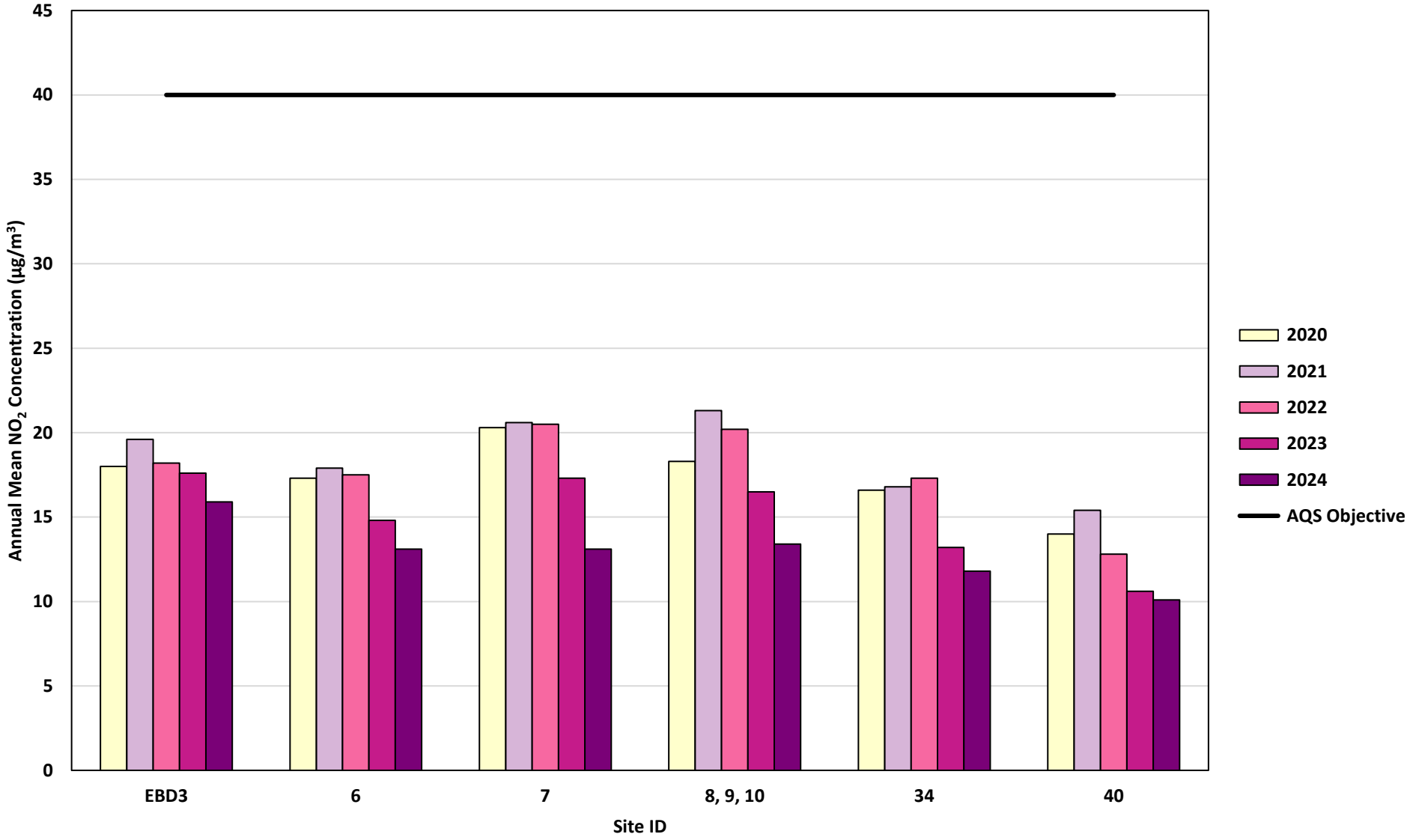


Figure A.4 – Trends in Annual Mean NO_2 Concentration in Bearsden

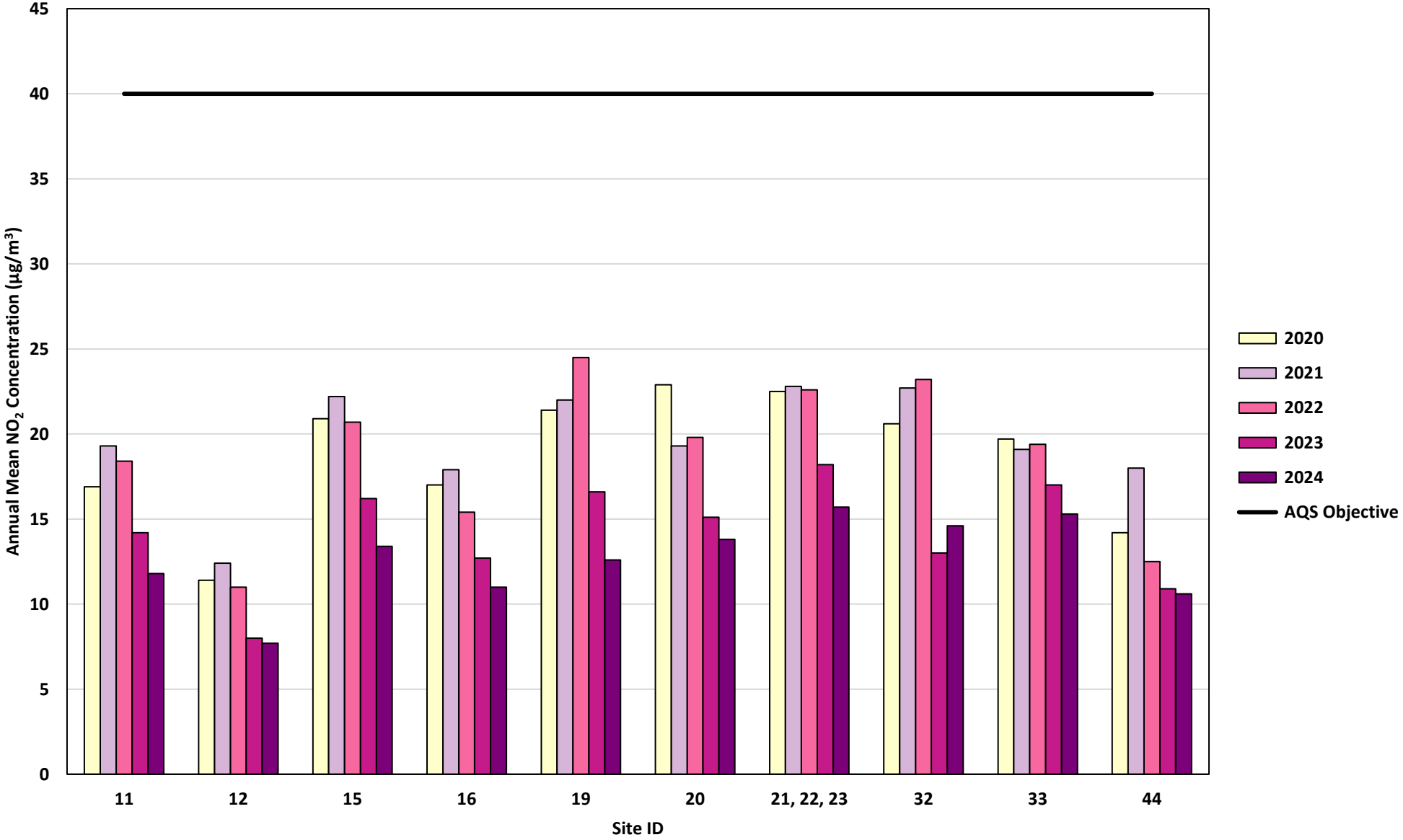


Figure A.5 – Trends in Annual Mean NO_2 Concentration in Milngavie

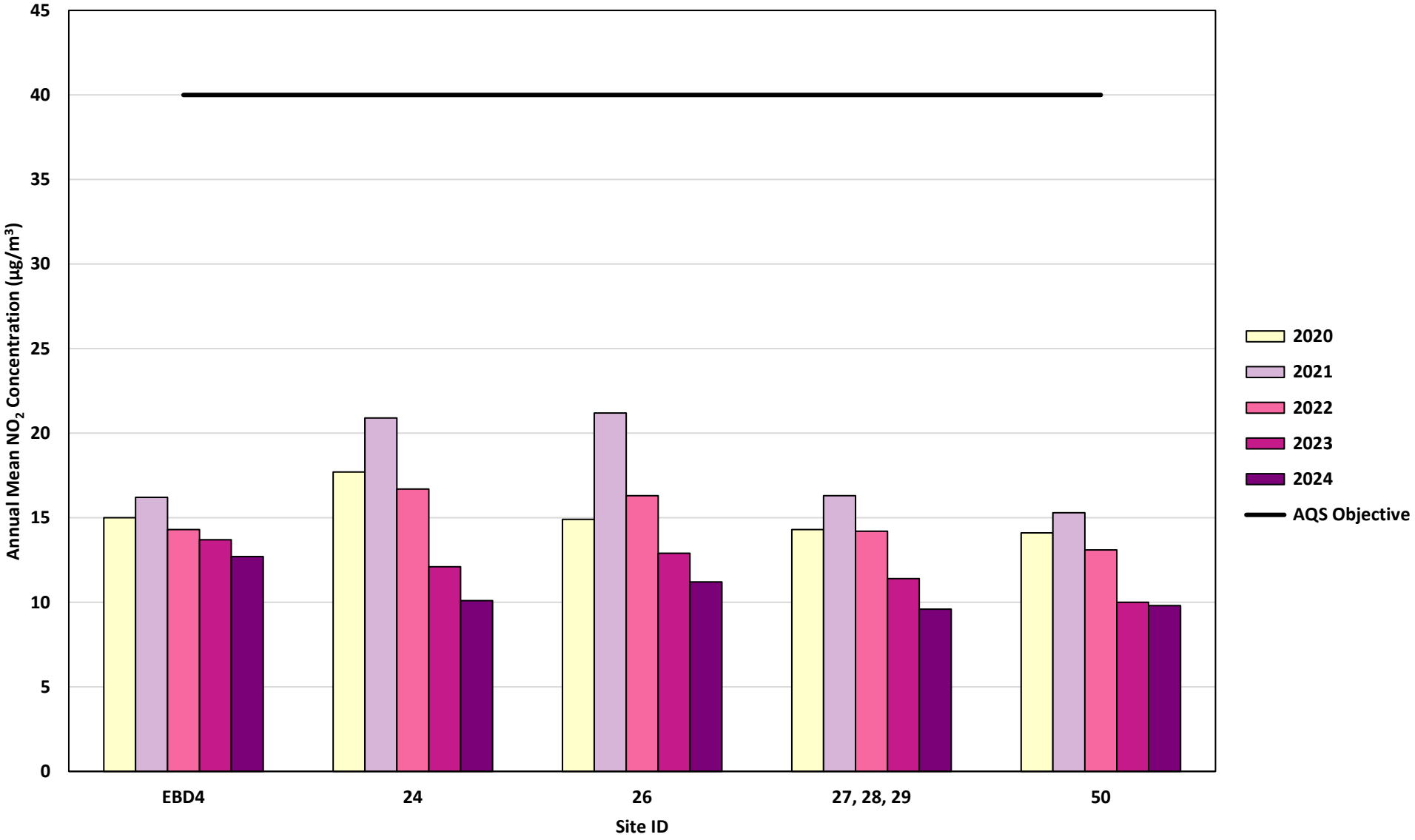


Figure A.6 – Trends in Annual Mean NO_2 Concentration in Auchinairn

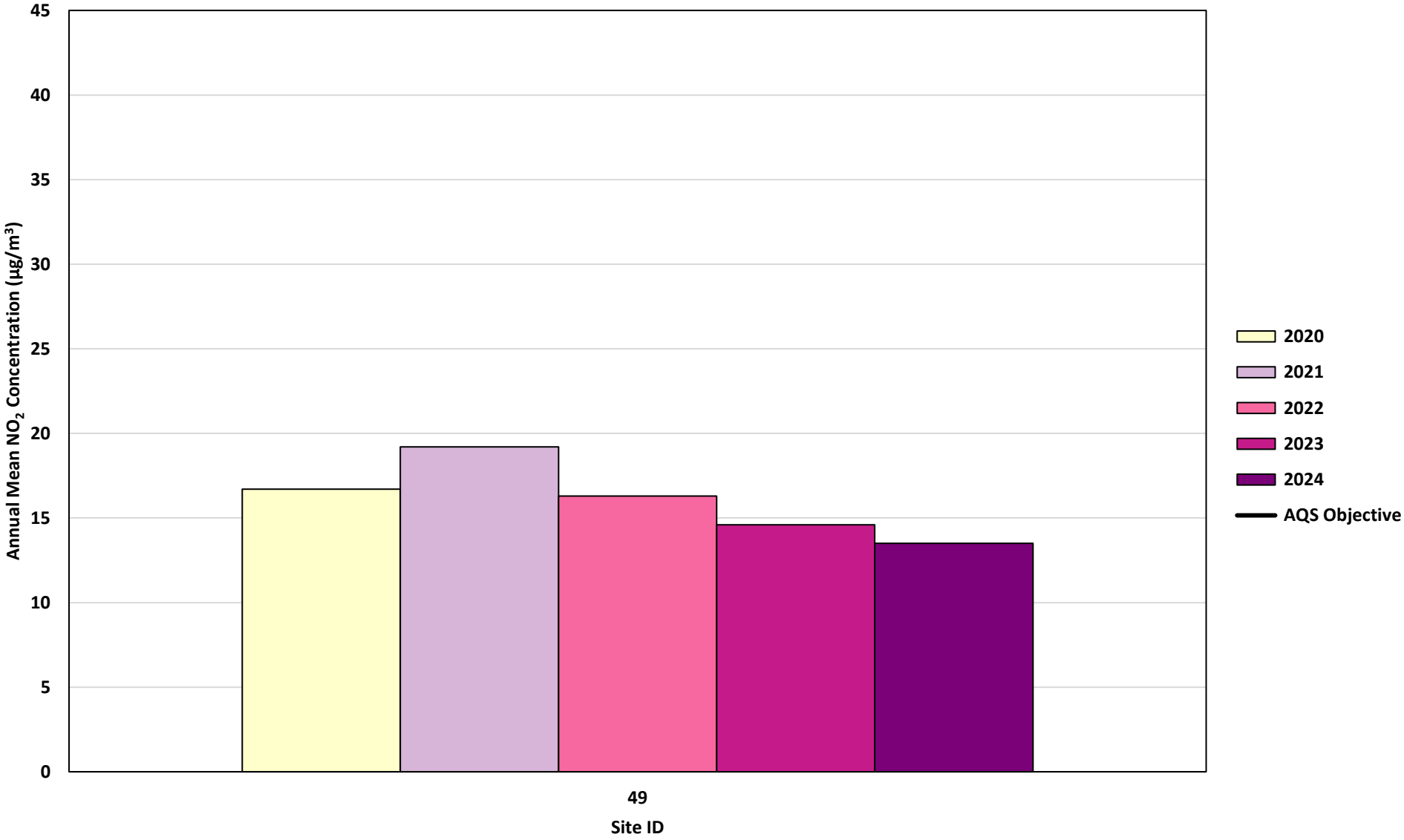


Table A.5 – 1-Hour Mean NO_2 Monitoring Results, Number of 1-Hour Means > 200 µg/m^3

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2024 (%) (2)	2020	2021	2022	2023	2024
EBD1	254269	672067	Roadside	99.8	99.8	0	0	0 (80)	0	0
EBD3	265675	673516	Kerbside	99.7	99.7	0	0	0	0	0
EBD4	255328	674115	Roadside	99.7	99.7	0	0	0 (80)	0 (70)	0

Notes:

Exceedances of the NO_2 1-hour mean objective (200 µg/m^3 not to be exceeded more than 18 times/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.

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

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

Table A.6 – Annual Mean PM_{10} 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 (%) (1)	Valid Data Capture 2024 (%) (2)	2020	2021	2022	2023	2024
EBD1	260995	670130	Roadside	99.7	99.7	10.0	10.2	11.4	11.5(3)	11.0
EBD2	254269	672067	Kerbside	51.8	51.8	8.0	9.5	10.0	10.1(3)	10.1(3)
EBD3	265675	673516	Kerbside	99.6	99.6	9.0	10.7	10.6	9.4	9.2
EBD4	255328	674115	Roadside	99.7	99.7	10.0	8.7	9.0	8.3	8.4

Notes:

Exceedances of the PM_{10} annual mean objective of 18 µg/m^3 are shown in bold.

All means have been “annualised” as per LAQM.TG(22), valid data capture for the full calendar year is less than 75%. See Appendix C for details.

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

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

(3) Annualised means reported.

Figure A.7 – Trends in Annual Mean PM_{10} Concentration in East Dunbartonshire

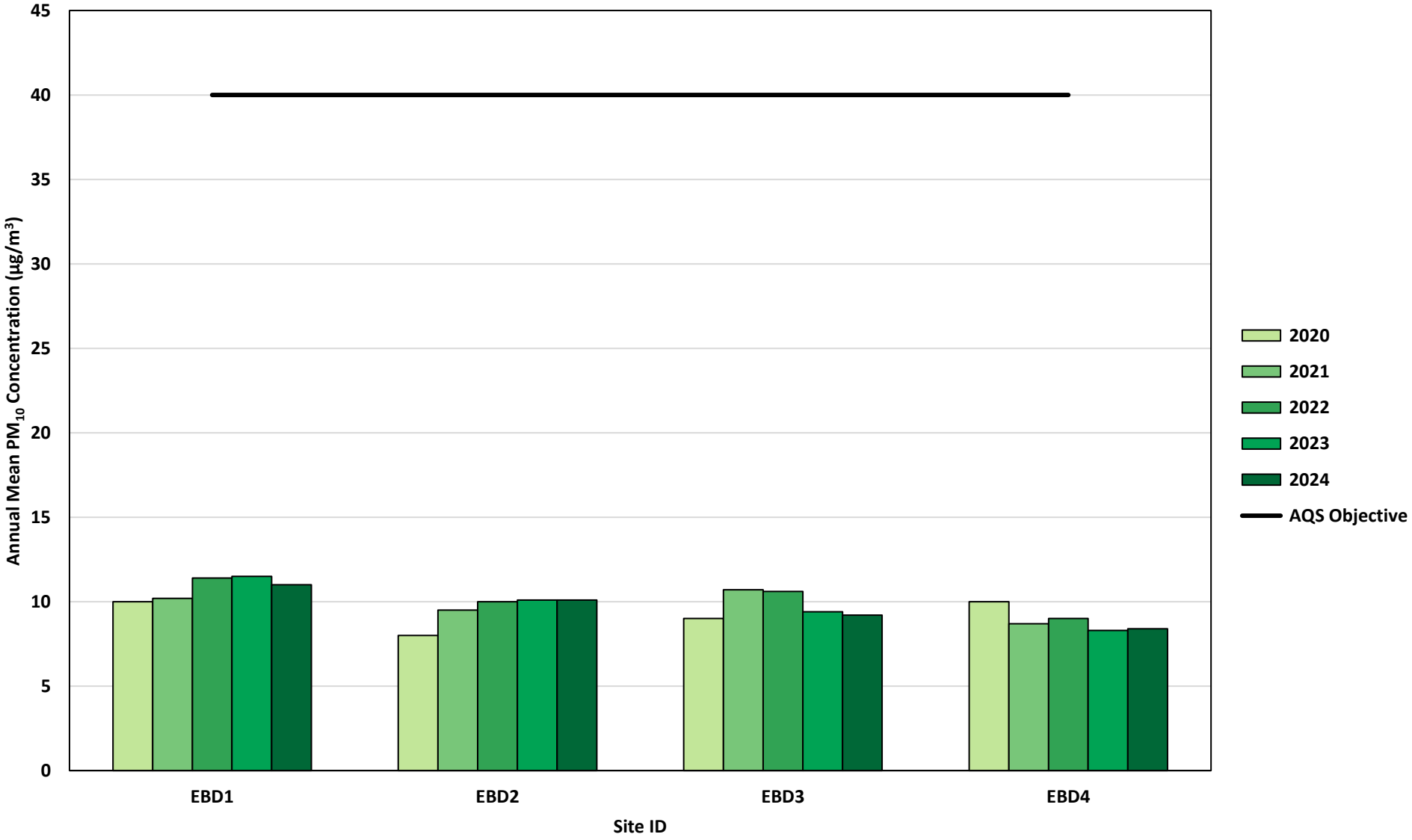


Table A.7 – 24-Hour Mean PM_{10} Monitoring Results, Number of PM_{10} 24-Hour Means > 50 µg/m^3

Site ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2024 (%) (2)	2020	2021	2022	2023	2024
EBD1	260995	670130	Roadside	99.7	99.7	0	0	3	0 (26)	0
EBD2	254269	672067	Kerbside	51.8	51.8	0	0	2	0 (26)	1 (29)(3)
EBD3	265675	673516	Kerbside	99.6	99.6	0	0	4	0	0
EBD4	255328	674115	Roadside	99.7	99.7	0	0	0	0	0

Notes:

Exceedances of the PM_{10} 24-hour mean objective (50 µg/m^3 not to be exceeded more than seven times/year) are shown in bold.

If the period of valid data is less than 85%, the 98.1st percentile of 24-hour means is provided in brackets.

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

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

(3) Annualised means reported.

Table A.8 – Annual Mean $PM_{2.5}$ 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 (%) (1)	Valid Data Capture 2024 (%) (2)	2020	2021	2022	2023	2024
EBD1	260995	670130	Roadside	99.7	99.7	6.0	5.9	6.4	6.1(3)	6.3
EBD2	254269	672067	Kerbside	51.8	51.8	5.0	5.2	5.5	4.9(3)	5.5(3)
EBD3	265675	673516	Kerbside	99.6	99.6	5.4	5.7	5.0	5.2	5.5
EBD4	255328	674115	Roadside	99.7	99.7	4.0	4.8	4.9	4.6	5.0

Notes:

Exceedances of the $PM_{2.5}$ annual mean objective of 10 µg/m^3 are shown in bold.

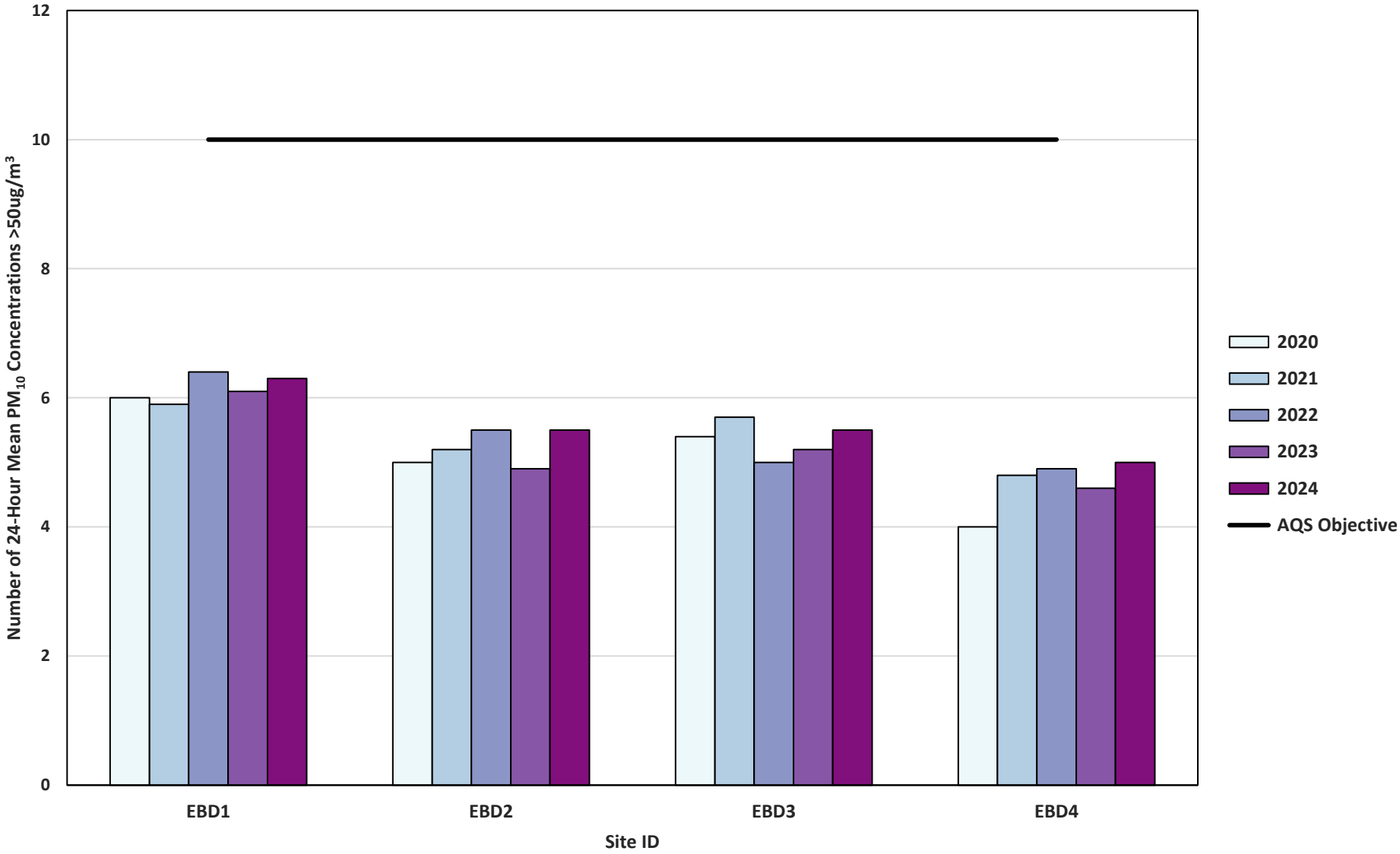
All means have been "annualised" as per LAQM.TG(22), valid data capture for the full calendar year is less than 75%. See Appendix C for details.

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

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

(3) Annualised means reported.

Figure A.8 – Trends in Annual Mean $PM_{2.5}$ Concentration in East Dunbartonshire



Appendix B: Full Monthly Diffusion Tube Results for 2024

Table B.1 – NO_2 2024 Monthly Diffusion Tube Results (µg/m^3)

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Mean: Raw Data	Annual Mean: Annualised and Bias Adjusted (0.82)	Annual Mean: Distance Corrected to Nearest Exposure	Comment
1	261016	670198	20.7	5.1	15.4	7.6	8.8	10.0	-	10.6	15.8	17.2	23.7	16.1	13.7	11.3	-	
2	260549	669312	30.6	17.7	14.2	17.3	16.1	16.0	15.9	17.3	23.3	22.0	27.8	21.8	20.0	16.4	-	
3	260995	670130	22.0	12.2	14.0	9.1	6.9	10.1	11.4	12.4	13.0	12.3	22.1	14.2	-	-	-	Triplicate Site with 3, 4 and 5 - Annual data provided for 5 only
4	260995	670130	21.6	12.9	11.8	9.3	5.6	5.6	10.5	10.6	14.5	10.3	22.5	17.3	-	-	-	Triplicate Site with 3, 4 and 5 - Annual data provided for 5 only
5	260995	670130	23.9	12.4	14.7	6.7	7.6	7.7	11.0	11.0	15.3	13.1	22.0	15.1	13.1	10.8	-	Triplicate Site with 3, 4 and 5 - Annual data provided for 5 only
6	265641	673497	23.7	14.4	17.6	9.2	9.4	12.4	13.4	10.7	16.5	13.8	29.2	21.3	16.0	13.1	-	
7	265697	673524	17.6	15.4	17.8	8.9	11.3	9.1	15.4	14.7	19.8	14.2	29.7	18.1	16.0	13.1	-	
8	265675	673516	18.6	17.1	20.0	10.8	10.5	10.6	14.1	-	17.5	12.4	30.8	17.2	-	-	-	Triplicate Site with 8, 9 and 10 - Annual data provided for 10 only
9	265675	673516	17.7	16.3	20.4	14.4	9.6	8.2	15.1	15.5	19.8	15.1	25.9	19.0	-	-	-	Triplicate Site with 8, 9 and 10 - Annual data provided for 10 only
10	265675	673516	23.4	16.9	18.4	10.7	10.9	10.9	14.1	16.1	19.6	21.1	22.4	10.6	16.3	13.4	-	Triplicate Site with 8, 9 and 10 - Annual data provided for 10 only
11	254218	672193	26.2	14.7	12.2	10.7	9.6	8.7	10.2	14.8	13.4	12.0	23.5	16.2	14.4	11.8	-	
12	254655	670158	14.0	12.0	10.8	6.2	7.4	3.6	4.5	5.8	10.7	11.7	16.8		9.4	7.7	-	
15	254275	672047	25.0	14.5	13.5	7.1	11.8	11.3	15.8	17.4	15.9	18.4	24.0	21.1	16.3	13.4	-	
16	254751	670621	21.5	10.5	10.5	6.2	8.0	5.9	12.2	13.4	12.1	16.3	25.3	18.6	13.4	11.0	-	
19	254877	671000	25.1	9.0	10.8	9.4	9.4	11.7	15.8	10.3	16.6	20.9	25.2	19.6	15.3	12.6	-	
20	254898	671023	27.7	16.4	17.1	10.1	8.6	5.5	12.1	17.1	22.2	21.2	28.1	15.8	16.8	13.8	-	
21	254269	672067	21.4	20.8	18.3	12.5	14.0	13.2	18.3	18.9	24.6	20.7	24.7	18.2	-	-	-	Triplicate Site with 21, 22 and 23 - Annual data provided for 23 only
22	254269	672067	21.8	16.5	19.6	14.0	17.3	12.8	18.3	19.5	25.5	22.3	24.8	24.7	-	-	-	Triplicate Site with 21, 22 and 23 - Annual data provided for 23 only
23	254269	672067	27.6	18.2	15.1	8.8	13.6	18.2	16.8	21.6	24.5	22.4	29.1	9.2	19.1	15.7	-	Triplicate Site with 21, 22 and 23 - Annual data provided for 23 only
24	255728	674486	10.2	14.4	11.0	4.2	6.9	6.8	9.8	15.2	10.1	22.1	20.5	16.8	12.3	10.1	-	
26	255331	674214	16.0	14.7	10.2	8.0	7.1	8.5	12.0	-	18.2	17.9	21.4	16.9	13.7	11.2	-	
27	255329	674114	17.7	10.3	11.5	4.6	7.3	5.7	9.2	9.6	15.7	11.0	23.3	18.5	-	-	-	Triplicate Site with 27, 28 and 29 - Annual data provided for 29 only
28	255329	674114	18.5	11.0	13.1	6.2	7.9	7.0	2.1	-	15.3	14.7	14.7	14.1	-	-	-	Triplicate Site with 27, 28 and 29 - Annual data provided for 29 only

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Mean: Raw Data	Annual Mean: Annualised and Bias Adjusted (0.82)	Annual Mean: Distance Corrected to Nearest Exposure	Comment
29	255329	674114	14.2	12.3	11.3	5.8	9.8	7.7	8.8	10.3	13.7	15.1	20.3	15.4	11.8	9.6	-	Triplicate Site with 27, 28 and 29 - Annual data provided for 29 only
30	260580	669533	16.9	12.6	14.6	7.6	8.3	6.9	10.5		17.1	18.6	27.6	20.5	14.7	12.0	-	
31	260552	669320	19.2	13.8	8.7	6.4	9.1	10.0	13.1	15.0	18.3	17.7	27.3	17.5	14.7	12.0	-	
32	254258	672077	18.5	12.5	17.3	9.8	11.4	14.6	18.2	16.8	25.8	21.6	27.5	19.2	17.8	14.6	-	
33	254275	672069	23.9	13.4	16.6	10.9	18.9	13.5	15.3	21.7	24.5	19.0	24.4	22.1	18.7	15.3	-	
34	265674	673521	22.5	12.8	11.6	6.8	10.5	10.0	10.8	8.8	15.2	18.0	25.9	20.2	14.4	11.8	-	
35	261033	669650	17.5	8.4	10.0	3.4	3.5	3.1	6.0	5.0	9.3	15.3	18.1	16.5	9.7	7.9	-	
36	260571	669339	24.6	19.2	17.7	8.9	15.6	12.9	12.6	16.5	22.4	23.1	29.3	26.8	19.1	15.7	-	
37	260759	669999	31.2	16.3	18.9	14.0	9.7	10.5	9.0	10.2	16.6	19.4	32.2	21.2	17.4	14.3	-	
39	260617	670338	15.9	8.5	9.4	5.8	5.1	4.9	5.7	6.2	9.0	13.5	17.7	13.4	9.6	7.9	-	
40	265602	673583	15.1	15.1	9.7	5.4	9.4	7.9	7.5	7.8	13.8	14.9	24.2	16.3	12.3	10.1	-	
44	255403	673236	18.6	12.1	10.0	5.6	16.7	4.4	8.4	8.1	12.1	16.3	21.6	20.6	12.9	10.6	-	
48	262112	670517	21.6	12.2	11.7	4.9	16.6	6.6	7.8	10.4	8.6	18.5	26.1	17.6	13.6	11.1	-	
49	262398	669436	25.5	12.8	14.8	7.0	9.1	7.6	11.8	-	20.8	21.4	28.1	22.1	16.5	13.5	-	
50	255183	674409	18.5	9.7	8.4	4.8	11.2	8.2	7.5	-	13.4	15.8	19.3	15.2	12.0	9.8	-	

☒ **All erroneous data has been removed from the NO_2 diffusion tube dataset presented in Table B.1.**

☒ **Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.**

☐ **Local bias adjustment factor used.**

☒ **National bias adjustment factor used.**

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

☒ **East Dunbartonshire Council confirm that all 2024 diffusion tube data has been uploaded to the Diffusion Tube Data Entry System.**

Notes:

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

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

See Appendix C for details on bias adjustment and annualisation.

Appendix C: Supporting Technical Information / Air Quality Monitoring Data QA/QC

New or Changed Sources Identified Within East Dunbartonshire Council During 2024

East Dunbartonshire has not identified any new sources relating to air quality within the reporting year of 2024.

Additional Air Quality Works Undertaken by East Dunbartonshire Council During 2024

East Dunbartonshire has not completed any additional works within the reporting year of 2024.

QA/QC of Diffusion Tube Monitoring

The diffusion tubes are supplied and analysed by Glasgow Scientific Services and are prepared using the 20% TEA in water method and in accordance with the procedures set out in the practical guidance. Glasgow Scientific Services Laboratory is UKAS accredited for the analysis of Diffusion tubes. Diffusion tube monitoring was undertaken in accordance with the diffusion tube calendar provided by Defra. All results have been bias adjusted and annualised where required.

Diffusion Tube Annualisation

All diffusion tube monitoring locations within East Dunbartonshire recorded data capture of 75% therefore it was not required to annualise any monitoring data. In addition, any sites with a data capture below 25% do not require annualisation.

Diffusion Tube Bias Adjustment Factors

East Dunbartonshire have applied the national bias adjustment factor of 0.82 to the 2024 monitoring data. A summary of bias adjustment factors used by East Dunbartonshire over the past five years is presented in Table C.1.

Three co-location studies were calculated by East Dunbartonshire Council in 2024. These co-location studies gave good data capture but poor overall precision, providing a combined local bias adjustment factor of 1.04 for 2024 in line with guidance provided within LAQM.TG22 Chapter 7. Due to the poor precision at all three co-location sites the national bias was instead used. This national bias adjustment factor was applied to all diffusion tube monitoring data undertaken in 2024.

Table C.1 – Bias Adjustment Factor

Year	Local or National	If National, Version of National Spreadsheet	Adjustment Factor
2024	National	04/25	0.82
2023	Local	-	0.89
2022	Local	-	0.89
2021	Local	-	0.97
2020	Local	-	0.95

Figure C.1 – Diffusion Tube National Bias Factor (04/25)

National Diffusion Tube Bias Adjustment Factor Spreadsheet — Spreadsheet Version Number: 04/25

Follow the steps below **in the correct order** to show the results of **relevant** co-location studies
Data only apply to tubes exposed monthly and are not suitable for correcting individual short-term monitoring periods
Whenever presenting adjusted data, you should state the adjustment factor used and the version of the spreadsheet
This spreadsheet will be updated every few months: the factors may therefore be subject to change. This should not discourage their immediate use.

This spreadsheet will be updated at the end of September 2025
LAQM Helpdesk Website

The LAQM Helpdesk is operated on behalf of Defra and the Devolved Administrations by Bureau Veritas, in conjunction with contract partners AECOM and the National Physical Laboratory.

Spreadsheet maintained by the National Physical Laboratory. Original compiled by Air Quality Consultants Ltd.

Step 1: Select the Laboratory that Analyses Your Tubes from the Drop-Down List

If a laboratory is not shown, we have no data for this laboratory.

Step 2: Select a Preparation Method from the Drop-Down List

If a preparation method is not shown, we have no data for this method at this laboratory.

Step 3: Select a Year from the Drop-Down List

If a year is not shown, we have no data[2]

Step 4:

Where there is only one study for a chosen combination, you should use the adjustment factor shown with caution. Where there is more than one study, use the overall factor[3] shown in blue at the foot of the final column.

If you have your own co-location study then see footnote[4]. If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMHelpdesk@bureauveritas.com or 0800 0327953

Analysed By[1]	Method (To undo your selection, choose (All) from the pop-up list)	Year[5] (To undo your selection, choose (All))	Site Type	Local Authority	Length of Study (months)	Diffusion Tube Mean Conc. (Dm) (µg/m³)	Automatic Monitor Mean Conc. (Cm) (µg/m³)	Bias (B)	Tube Precision[6]	Bias Adjustment Factor (A) (Cm/Dm)
Glasgow Scientific Services	20% TEA in water	2024	KS	Marylebone Road Intercomparison	11	43	36	21.2%	G	0.82
Glasgow Scientific Services	20% TEA in water	2024		**Overall Factor[3] (1 study)**				**Use**		0.82

NO_2 Fall-off with Distance from the Road

No diffusion tube NO_2 monitoring locations within East Dunbartonshire Council required distance correction during 2024.

QA/QC of Automatic Monitoring

All automatic sites are part of the Scottish Air Quality Programme and are audited twice per year by Ricardo. Servicing, repair and Local Site Operator (LSO) duties are carried out by ACOEM UK. Service contracts include six monthly service of instruments, call outs to site for faults and repairs, and the routine replacement of consumables. All data is available in real-time, and regularly scaled and ratified by Ricardo on behalf of the Scottish Government.

PM_{10} and $PM_{2.5}$ Monitoring Adjustment

The type of PM_{10}/$PM_{2.5}$ monitor(s) utilised within East Dunbartonshire Council do not require the application of a correction factor.

Automatic Monitoring Annualisation

The LAQM.TG(22) states that annualisation is required for any site which has a data capture of less than 75%, but greater than 25%. One automatic monitoring site recorded below the acceptable data capture in 2024 for PM_{10} and $PM_{2.5}$, therefore required annualisation. Annualisation was carried out for annual mean PM_{10} and $PM_{2.5}$ at Bearsden with data capture of 51.8%. Two continuous background monitoring locations within a 50-mile radius were selected to annualise the data:

- Glasgow High Street (PM_{10}, $PM_{2.5}$); and

- Glasgow Townhead (PM_{10}, $PM_{2.5}$).

These continuous background monitoring sites all had >85% data capture in 2024 and therefore could be used for annualisation. Table C.2 and Table C.3 presents the annualisation summary.

Table C.2 – Annualisation Summary for Automatic Monitors for Annual Mean PM_{10}

Site ID	Glasgow High Street	Glasgow Townhead	Average Annualisation Factor	Raw Data Annual Mean	Annualised Annual Mean
EBD2	1.0609	1.0533	1.0571	10.1	10.7

Table C.3 – Annualisation Summary for Automatic Monitors for Annual Mean $PM_{2.5}$

Site ID	Glasgow High Street	Glasgow Townhead	Average Annualisation Factor	Raw Data Annual Mean	Annualised Annual Mean
EBD2	1.0494	1.0558	1.0526	5.5	5.8

NO_2 Fall-off with Distance from the Road

No automatic NO_2 monitoring locations within East Dunbartonshire Council required distance correction during 2024.

Appendix D: Maps Showing the Location of Monitoring Sites

Figure D.1 - Map of Monitoring Sites in Bishopbriggs

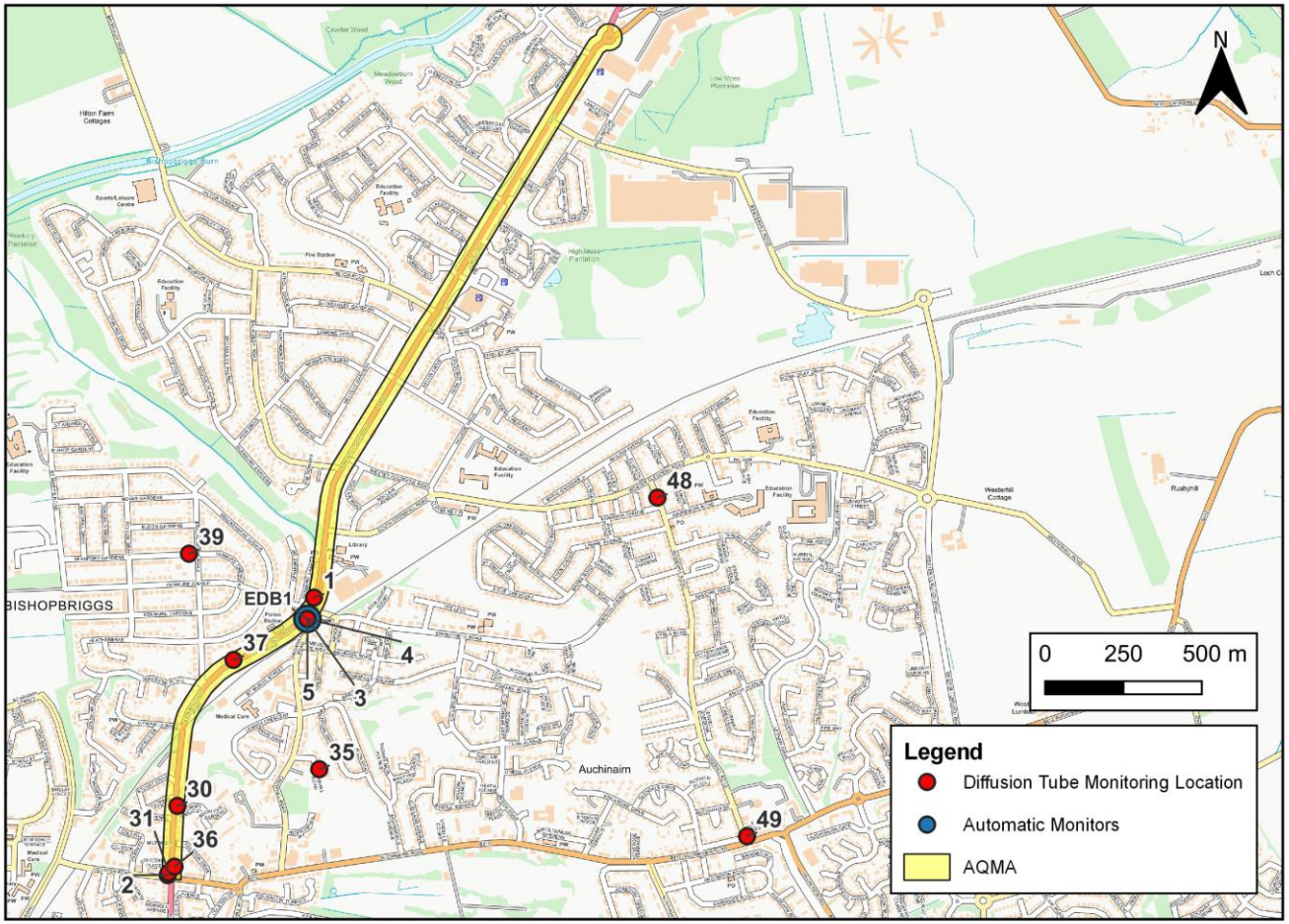


Figure D.2 – Map of Monitoring Sites in Bearsden

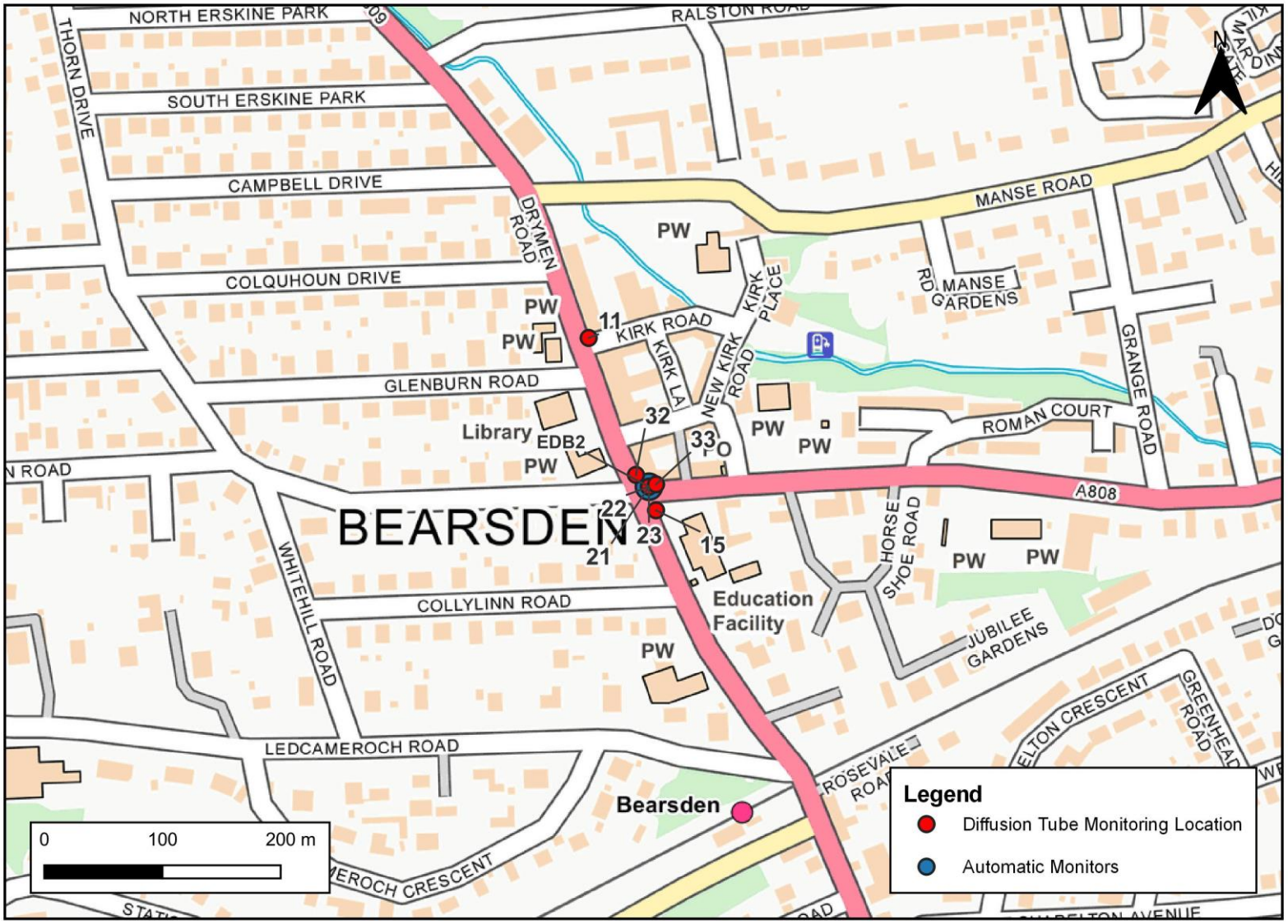


Figure D.3 – Map of Monitoring Sites in Milngavie

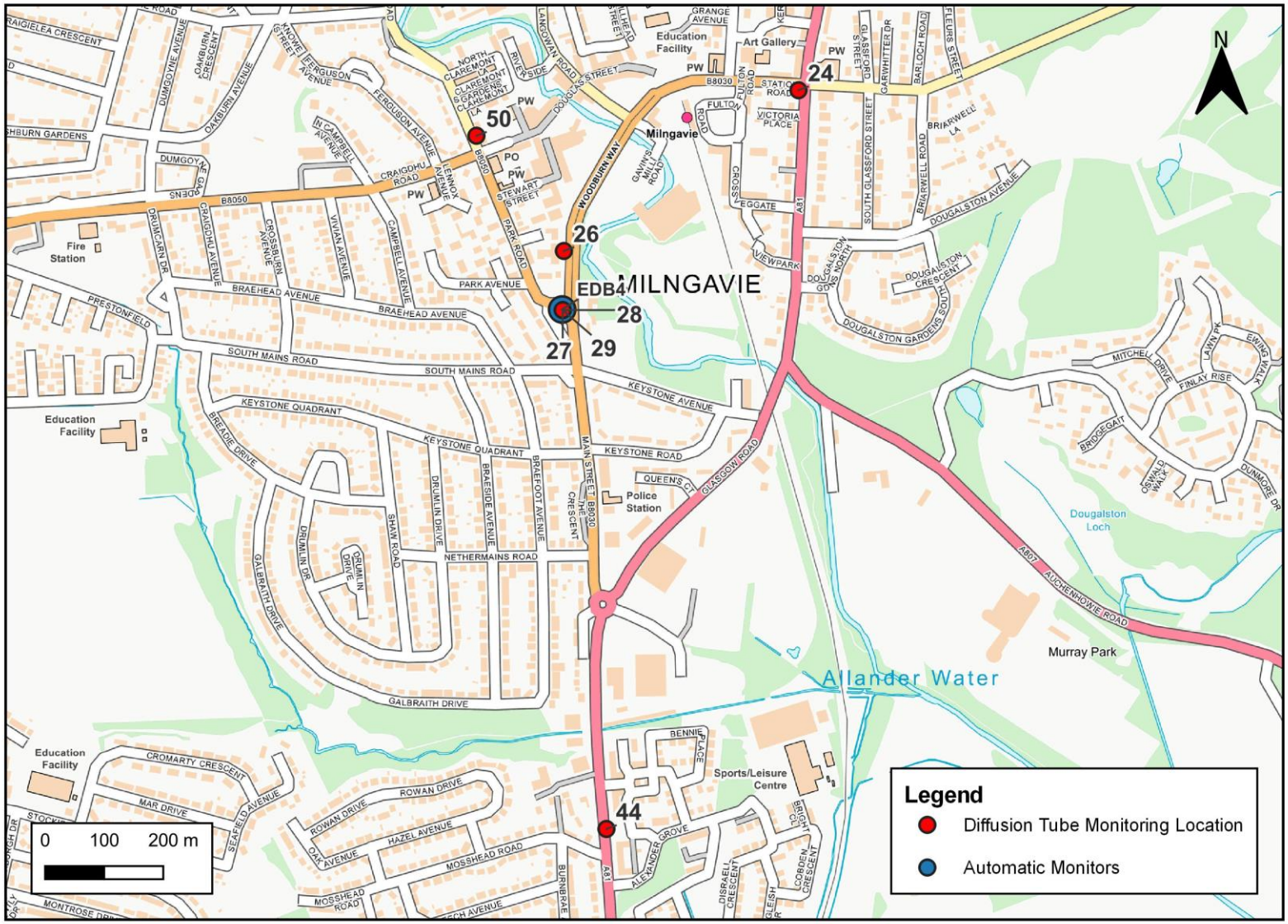


Figure D.4 – Map of Monitoring Sites in Kirkintilloch

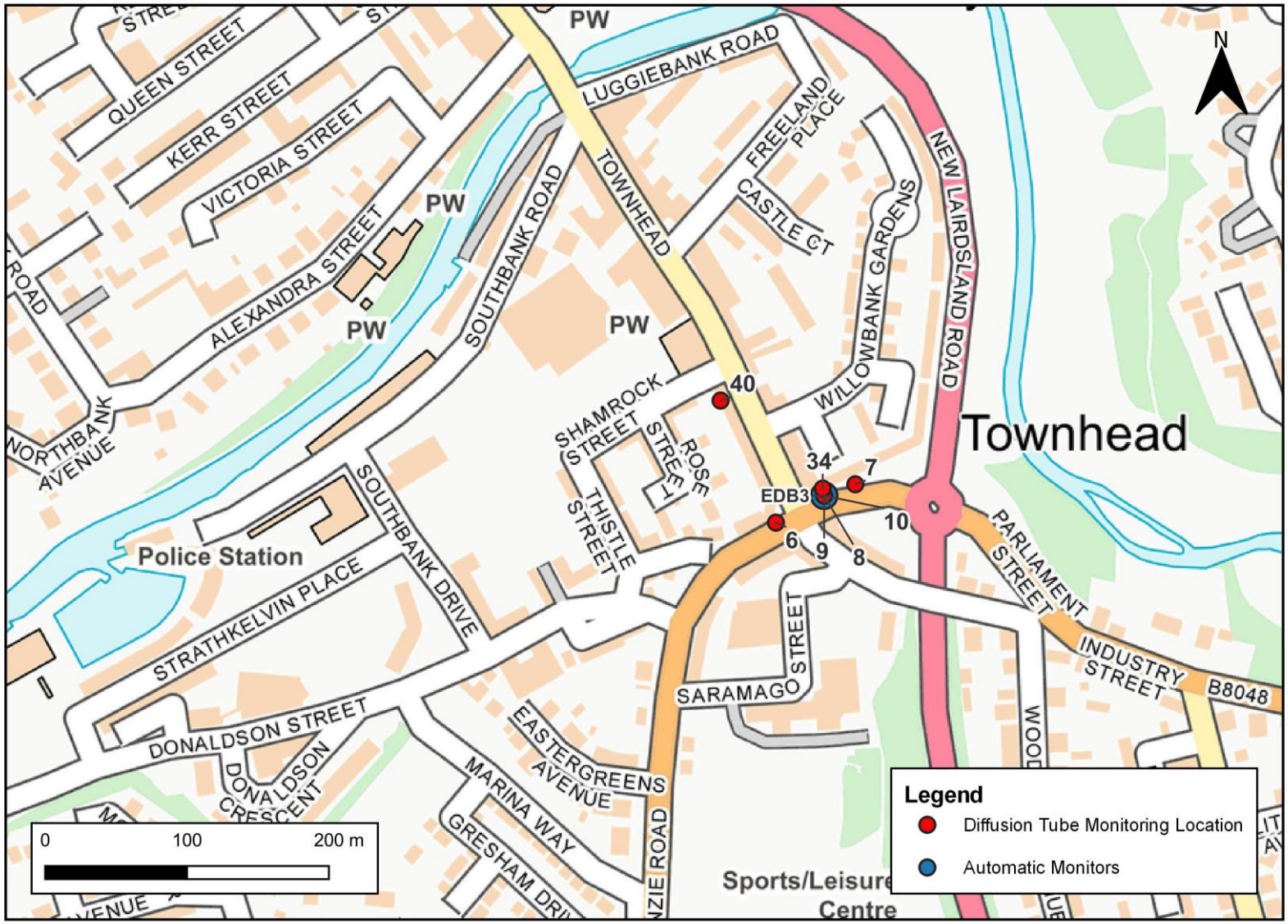
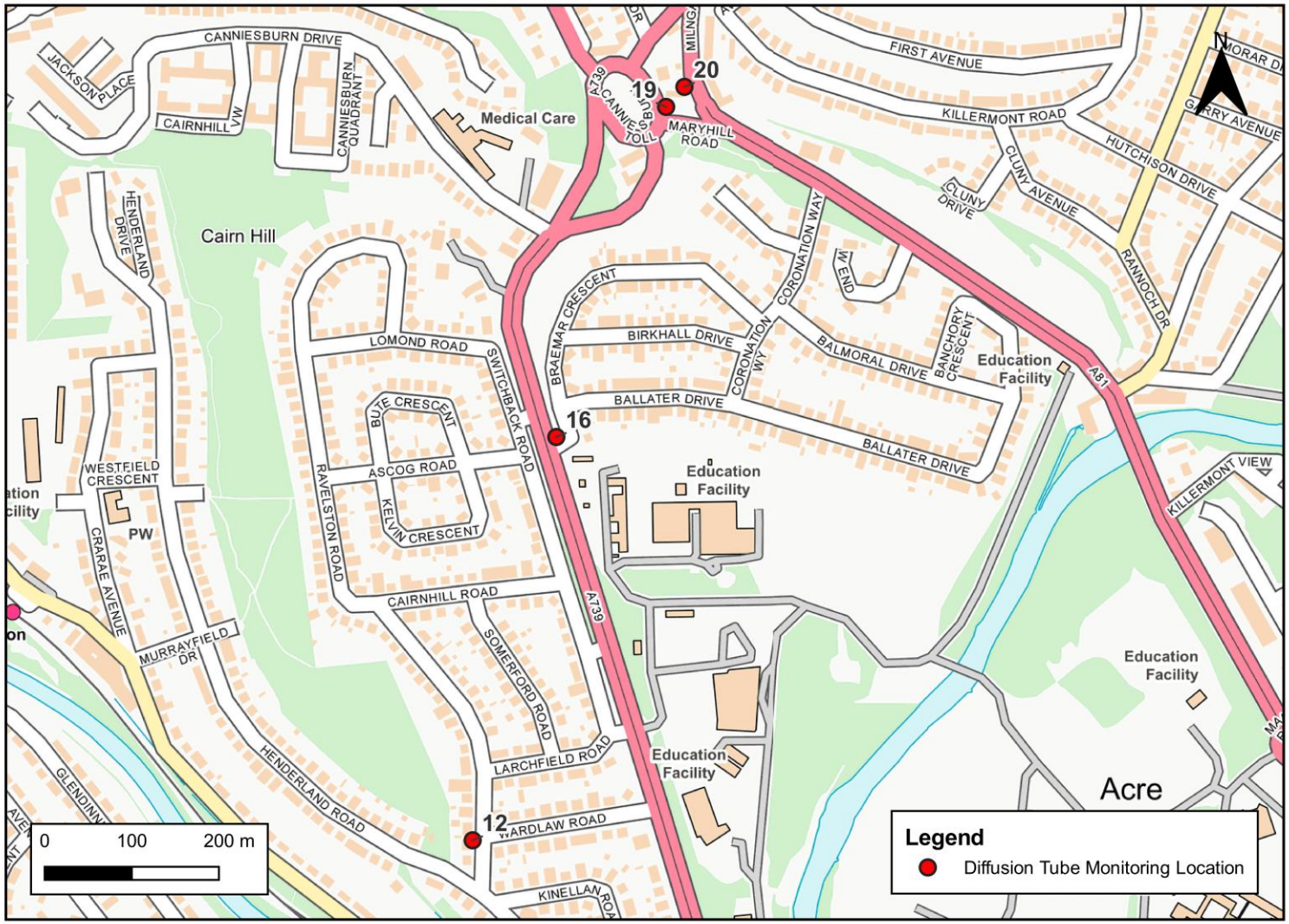


Figure D.5 – Map of Monitoring Sites in Acre



Glossary of Terms

Abbreviation	Description
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the LA 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
APR	Annual Progress Report
AURN	Automatic Urban and Rural Network (UK air quality monitoring network)
Defra	Department for Environment, Food and Rural Affairs
DMRB	Design Manual for Roads and Bridges – Air quality screening tool produced by Highways England
DT	Diffusion Tube
FDMS	Filter Dynamics Measurement System
LAQM	Local Air Quality Management
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
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
SO_2	Sulphur Dioxide

References

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