

# Appendix 1

## Air Quality Annual Status Summary Report for 2023

### Air Quality Monitoring Data

#### 1. Nitrogen Dioxide (NO<sub>2</sub>)

The current UK standard is an annual average (mean) of 40µg/m<sup>3</sup>.

#### Continuous analysers

Site	Site type	Annual Mean (µg/m <sup>3</sup> )						
		2017	2018	2019	2020	2021	2022	2023
The Aldgate School	Urban Background	38	32	33	22	23	23	22
Beech St	Roadside	80	69	62	29	31	41	36
Walbrook Wharf	Roadside	92	87	73	45	46	52	-
Bell Wharf Lane	Roadside	-	-	-	-	-	-	32

NO<sub>2</sub> monitoring ceased in Upper Thames Street in 2022 due to forthcoming changes to office accommodation. A new site was set up in 2023 in Bell Wharf Lane

#### Long term diffusion tube sites

Site	Site type	Annual Mean (µg/m <sup>3</sup> )						
		2017	2018	2019	2020	2021	2022	2023
St Bartholomew's Hospital Courtyard	Urban Background	63	50	42	33	31	32	34
St. Andrew's Church, Queen Victoria St	Roadside	52	50	41	28	28	30	28
St Dunstan's Church, Fleet Street	Roadside	82	70	57	31	36	37	38
Speed House, Barbican Estate	Urban Background	32	31	28	19	19	20	19
Guinness Trust Estate, Mansell St	Roadside	48	46	39	33	27	27	26

## Diffusion tube sites measuring the impact of the Bank on Safety traffic scheme

Site	Annual Mean ( $\mu\text{g}/\text{m}^3$ )						
	2017	2018	2019	2020	2021	2022	2023
Cannon Street	65	50	40	38	37	38	38
Queen Victoria Street	59	58	51	35	31	39	28
King Street	52	52	47	30	30	28	29
Magistrates Court	63	53	56	36	32	33	29
King William Street	70	61	61	42	35	36	33
Lombard Street	56	56	45	30	28	28	27
Cornhill-Royal Exchange	57	62	41	26	27	29	26
Threadneedle Street	69	62	42	31	28	29	26
31 Old Broad Street	57	53	45	28	26	27	25
Wormwood Street	61	57	49	32	32	36	32
3 London Wall	54	65	53	33	38	37	38
81 London Wall	59	62	53	36	41	40	38
55 Moorgate	66	66	52	36	36	34	34
85 Gresham Street	54	52	46	30	30	27	29
Lothbury	44	45	39	24	24	23	26
Princes Street	74	69	49	36	34	34	33
Gracechurch Street /Leadenhall	66	62	51	33	36	42	34

## Diffusion tube sites measuring the impact of the Low Emission Neighbourhood pilot

Site	Annual Mean ( $\mu\text{g}/\text{m}^3$ )						
	2017	2018	2019	2020	2021	2022	2023
Giltspur Street	53	43	38	28	27	29	28
Beech Street- Near Barbican Station	69	62	50	33	30	37	37
Aldersgate	62	57	47	41	35	43	35
Viscount Street	40	37	-	24	22	23	23
Corner of Whitecross Street / Beech Street	46	42	40	23	25	26	26
London Wall/ Brewers Hall Gardens	48	49	42	30	36	32	33
Fann Street	-	41	36	23	23	25	23

## Diffusion tube sites at other locations including schools and nurseries

Site	Annual Mean ( $\mu\text{g}/\text{m}^3$ )						
	2017	2018	2019	2020	2021	2022	2023
Walbrook Wharf	82	77	64	41	44	50	49
Southwark Bridge	-	41	35	29	31	34	31
Liverpool Street	-	71	52	35	35	31	35
Fenchurch Avenue	46	36	35	26	25	24	21
Fetter Lane	-	56	44	29	30	31	28
St Pauls Cathedral	-	41	39	24	24	26	26
Finsbury Circus	-	-	-	-	25	25	23
Christchurch Greyfriars Garden	-	-	-	-	27	27	27
Goodmans Yard	-	-	44	25	28	28	28
Goldman Sachs, Shoe Lane	-	-	-	24	25	26	32
Citigen	-	-	-	30	30	30	23
Hatching Dragons Nursery	-	-	-	22	22	23	20
Bright Horizons Nursery	-	-	-	24	21	21	32
St Pauls School front railings	-	-	42	31	28	30	21
CoL Boys School access ramp	-	-	-	21	23	24	23
Charterhouse Square School	-	-	-	-	25	25	29
Cheapside Sunken Garden	-	-	-	-	-	27	23
Temple Church Courtyard	-	-	-	-	-	21	31

## Diffusion tube supporting the Transport Strategy

Site	Annual Mean ( $\mu\text{g}/\text{m}^3$ )					
	2018	2019	2020	2021	2022	2023
Byward Street	67	51	35	40	38	37
Seething Lane / Byward Street junction	71	57	44	46	45	46
Crosswall	50	44	26	27	30	27
Minories	62	49	36	37	40	38
Stoney Lane	40	39	25	25	27	24
Heneage Lane	42	33	27	25	26	24
St Mary Axe	50	42	26	25	24	25
Blackfriars Bridge	62	56	41	38	37	38
Victoria Embankment	68	57	38	38	40	38
Fleet Street	62	47	36	30	35	33
Ludgate Hill	61	50	31	31	34	31
Museum of London	66	55	36	35	37	38
London Wall	65	52	39	36	37	32
The Fable	58	51	38	30	36	33
Old Bailey (north end)	73	56	36	43	44	42
The Gherkin	-	-	-	27	26	22

## Diffusion tubes measuring the impact of the Beech Street Zero Emissions Street Pilot

Site	Annual Mean ( $\mu\text{g}/\text{m}^3$ )				
	2019	2020	2021	2022	2023
Aldersgate Street	47	39	39	44	37
Bunhill Row/Chiswell Street	40	26	25	28	25
Moore Lane/Ropemaker Street	34	29	26	25	24
Moorgate	52	32	34	31	37
London Wall/ Moorgate	52	36	37	36	34
London Wall	49	34	35	35	33
Wood Street	29	24	24	21	22
Goswell Road		37	39	43	34

## Diffusion tubes measuring the impact of the St Martins Le Grand Regeneration Project

Site	Annual Mean ( $\mu\text{g}/\text{m}^3$ )
	2023
Wood Street	24
Cheapside East	33
Cheapside West	34
Cheapside / Newgate Street	38
Newgate Street East	40
Newgate Street West	34
King Edward Street	37
Postman's Park West	33
Little Britain	34
Montague Street	40
Postman's Park East	40
St Martin's Le Grand North	42
St Martin's Le Grand South	39
St Martin's Le Grand / Cheapside	31

## PM<sub>10</sub> Data

The UK standard is an annual average of 40µg/m<sup>3</sup>.

Site	Annual Mean (µg/m <sup>3</sup> )						
	2017	2018	2019	2020	2021	2022	2023
The Aldgate School	23	21	19	16	16	17	15
Beech St	23	24	22	18	15	17	15
Upper Thames St	32	32	27	24	19	-	
Bell Wharf Lane						20	17

PM<sub>10</sub> monitoring ceased in Upper Thames Street in September 2021 due to issues with the power supply. A new site was set up in May 2022 in Bell Wharf Lane.

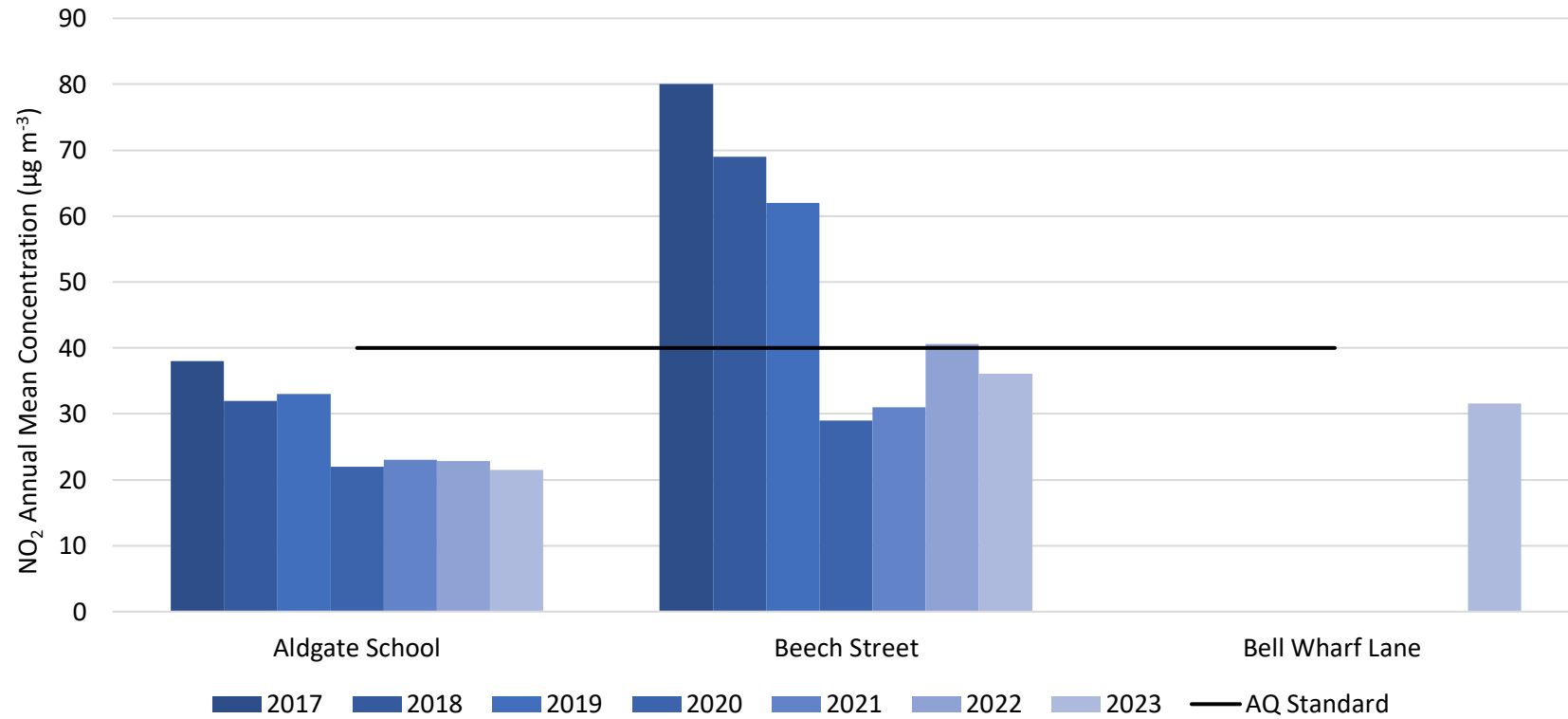
## PM<sub>2.5</sub> Data

The UK standard is an average of 10µg/m<sup>3</sup> to be met by 2040.

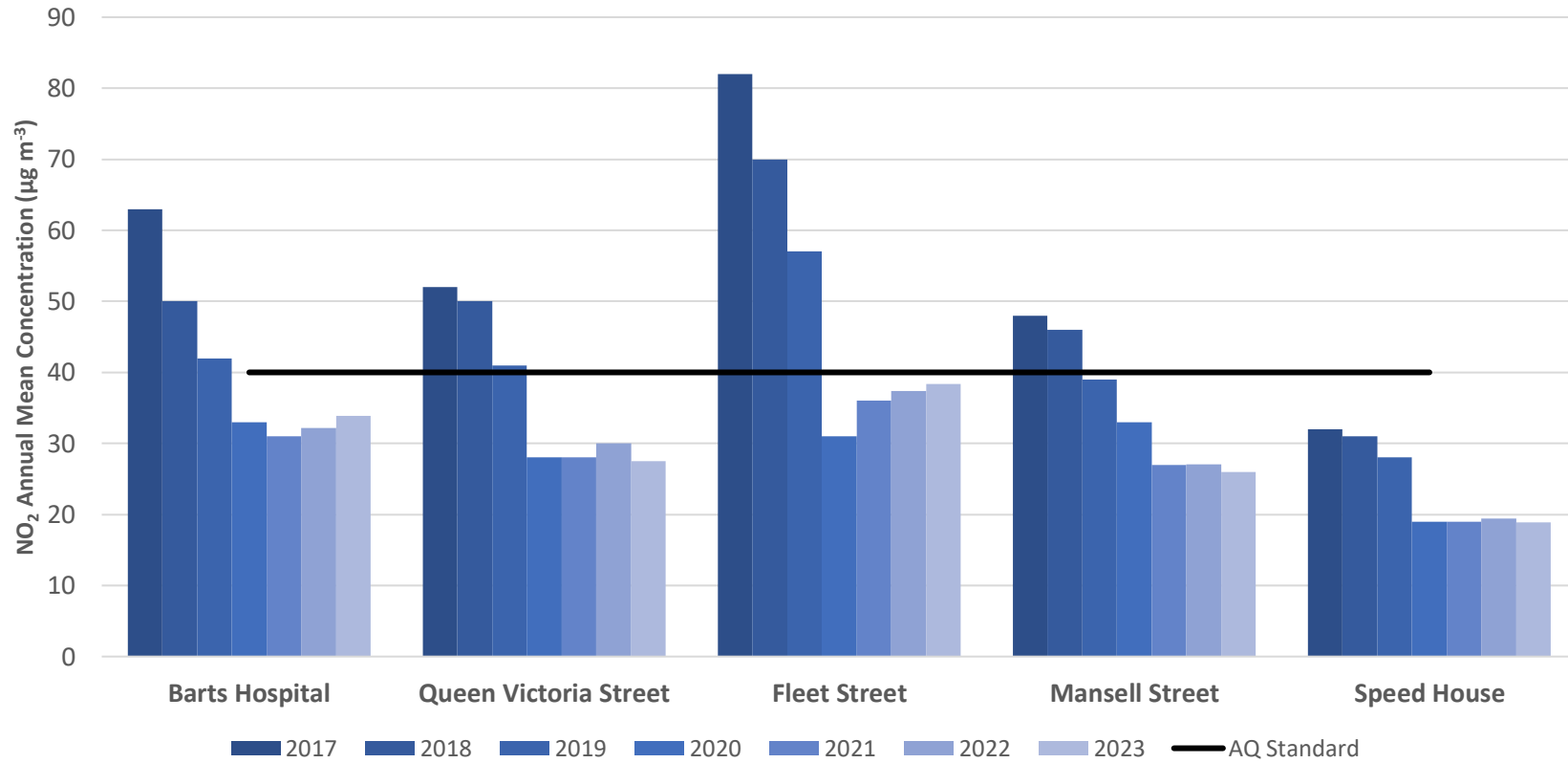
Site	Annual Mean (µg/m <sup>3</sup> )						
	2017	2018	2019	2020	2021	2022	2023
Farringdon Street	16	16	14	12	12	12	10
The Aldgate School	14	12	12	12	11	12	10

## Bar charts

### Annual Mean NO<sub>2</sub>: Continuous Monitoring Sites

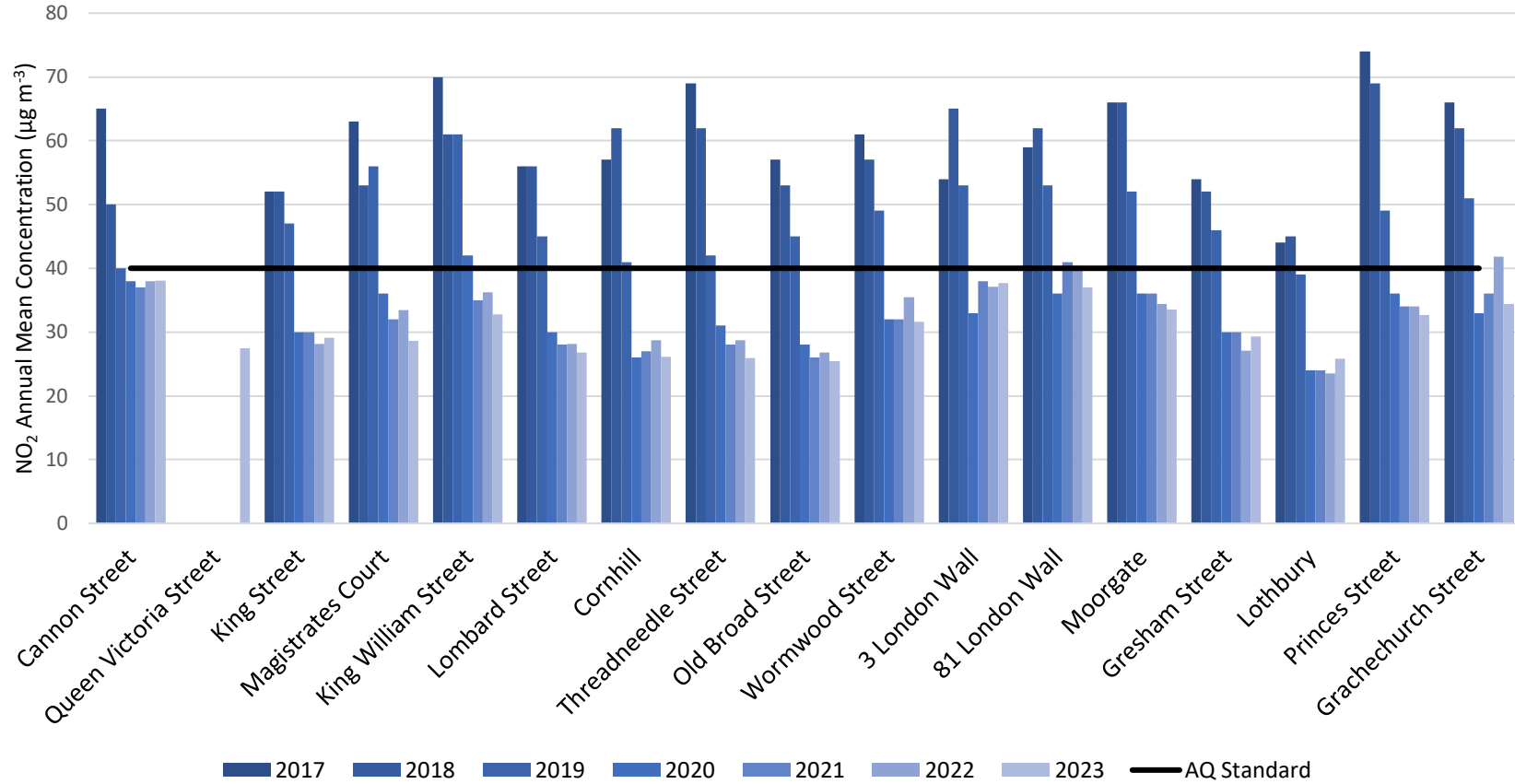


## Annual Mean NO<sub>2</sub>: Long Term Diffusion Tube Sites

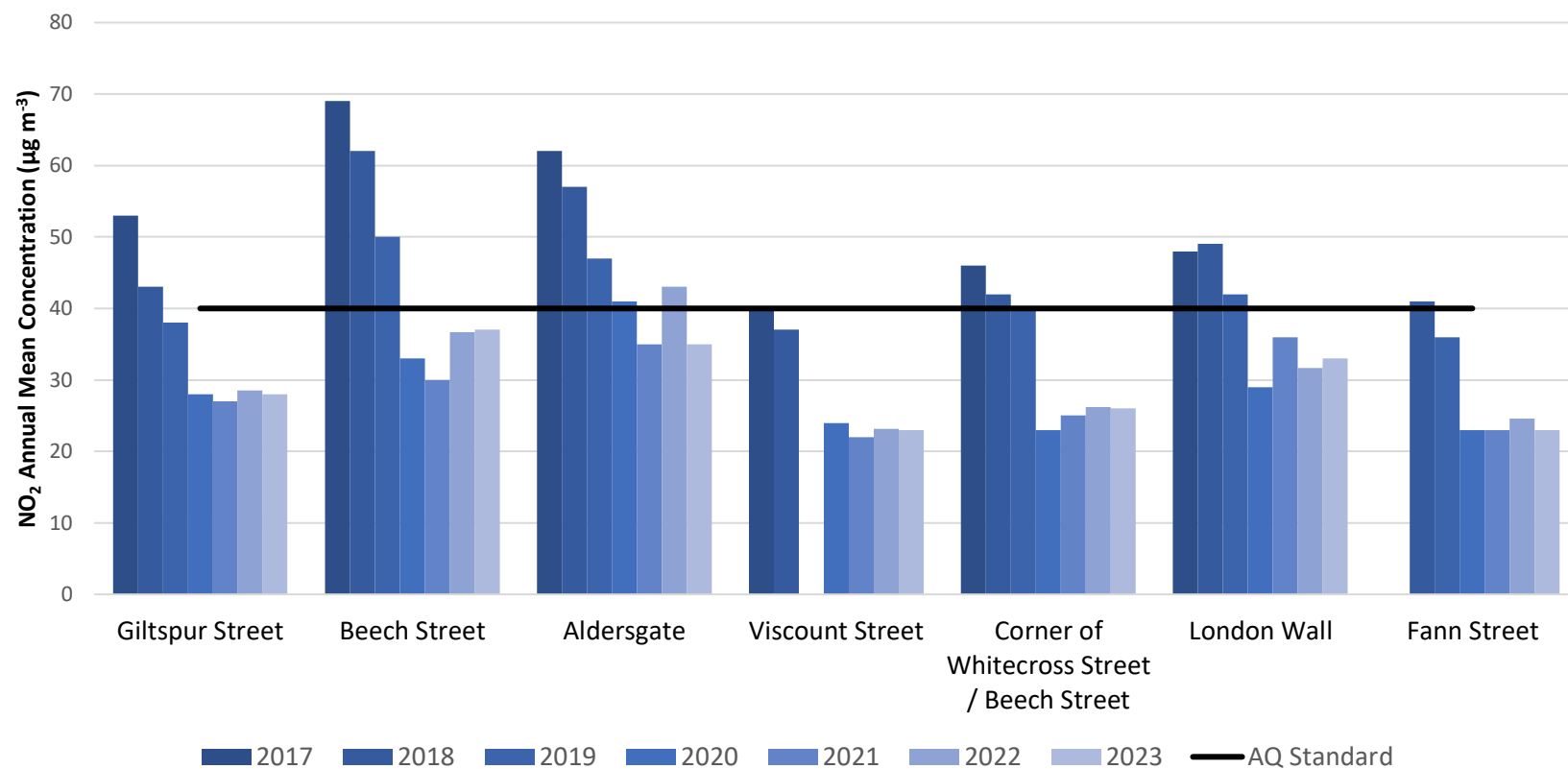




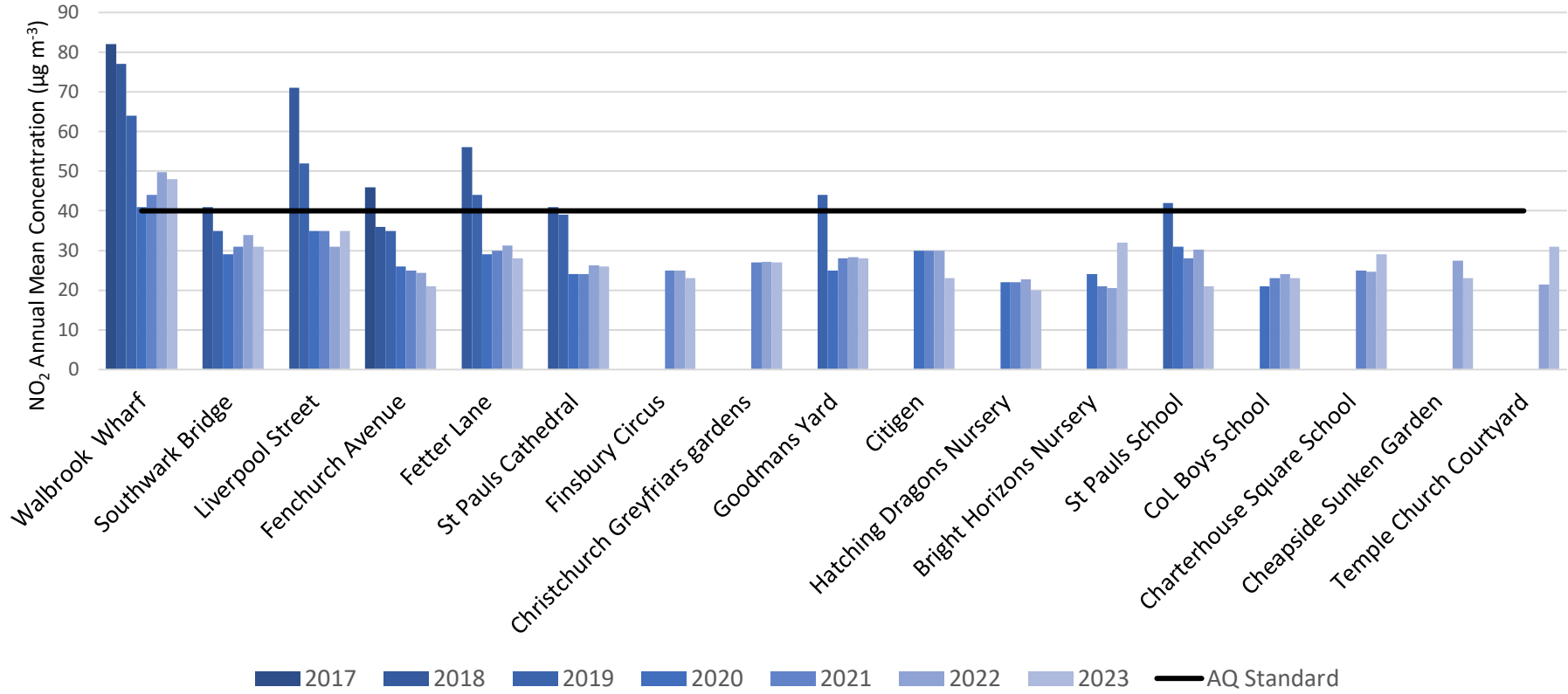
## Annual Mean NO<sub>2</sub>: Diffusion tube sites measuring the impact of the Bank on Safety traffic scheme



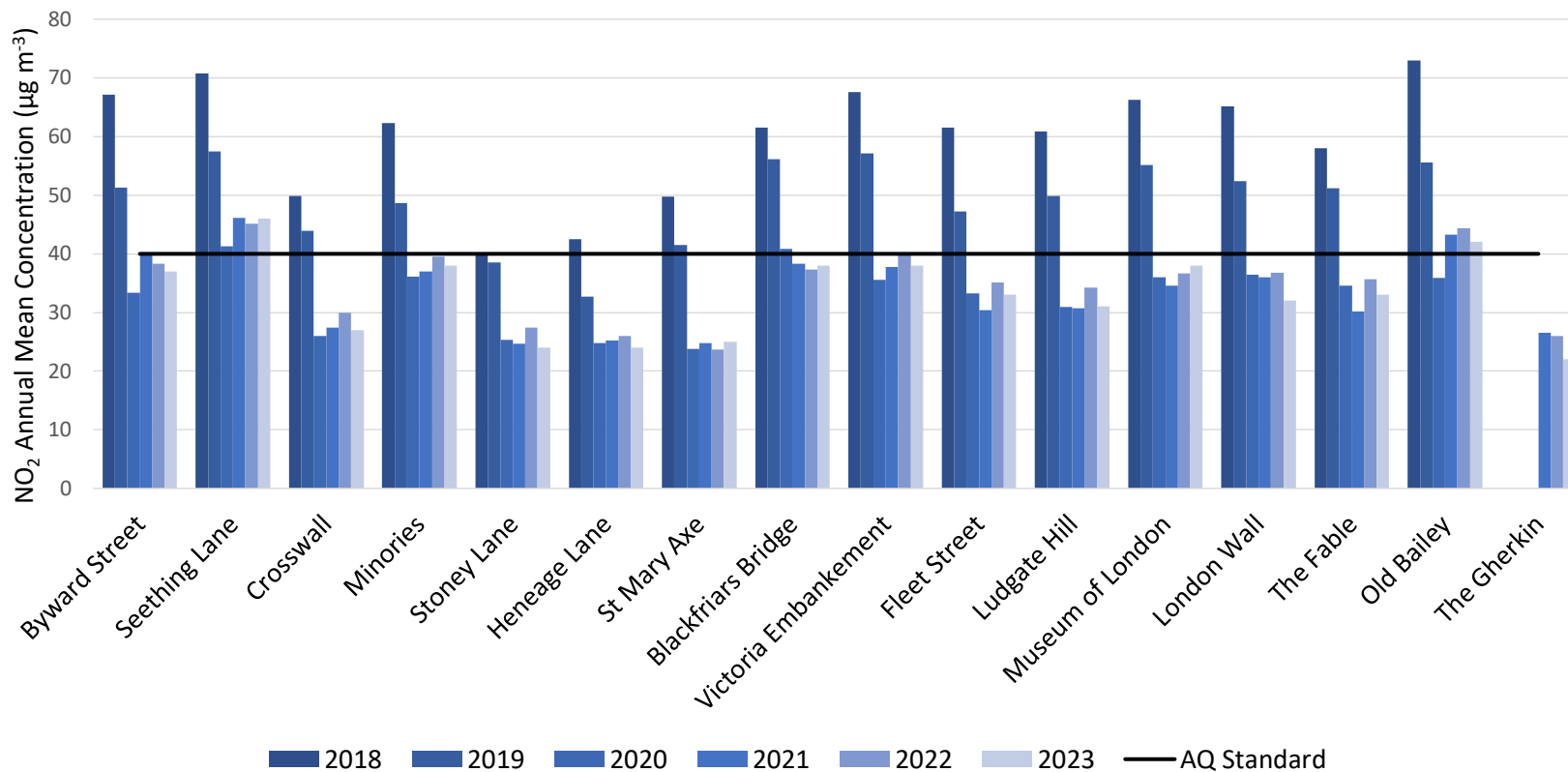
## Annual Mean NO<sub>2</sub>: Diffusion tube sites measuring the impact of the Low Emission Neighbourhood pilot



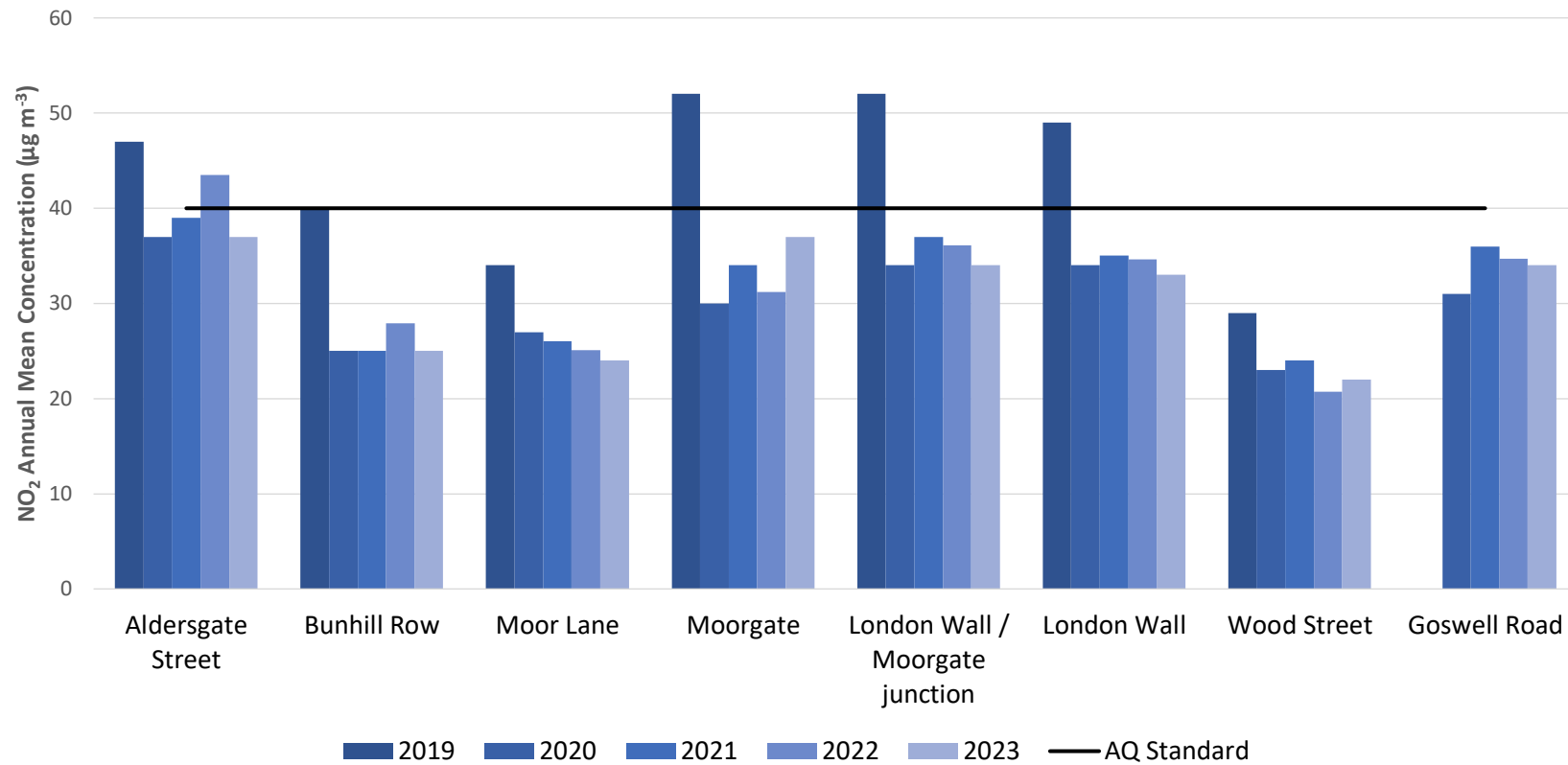
## Annual Mean NO<sub>2</sub>: Diffusion tube sites at other locations including schools and nurseries



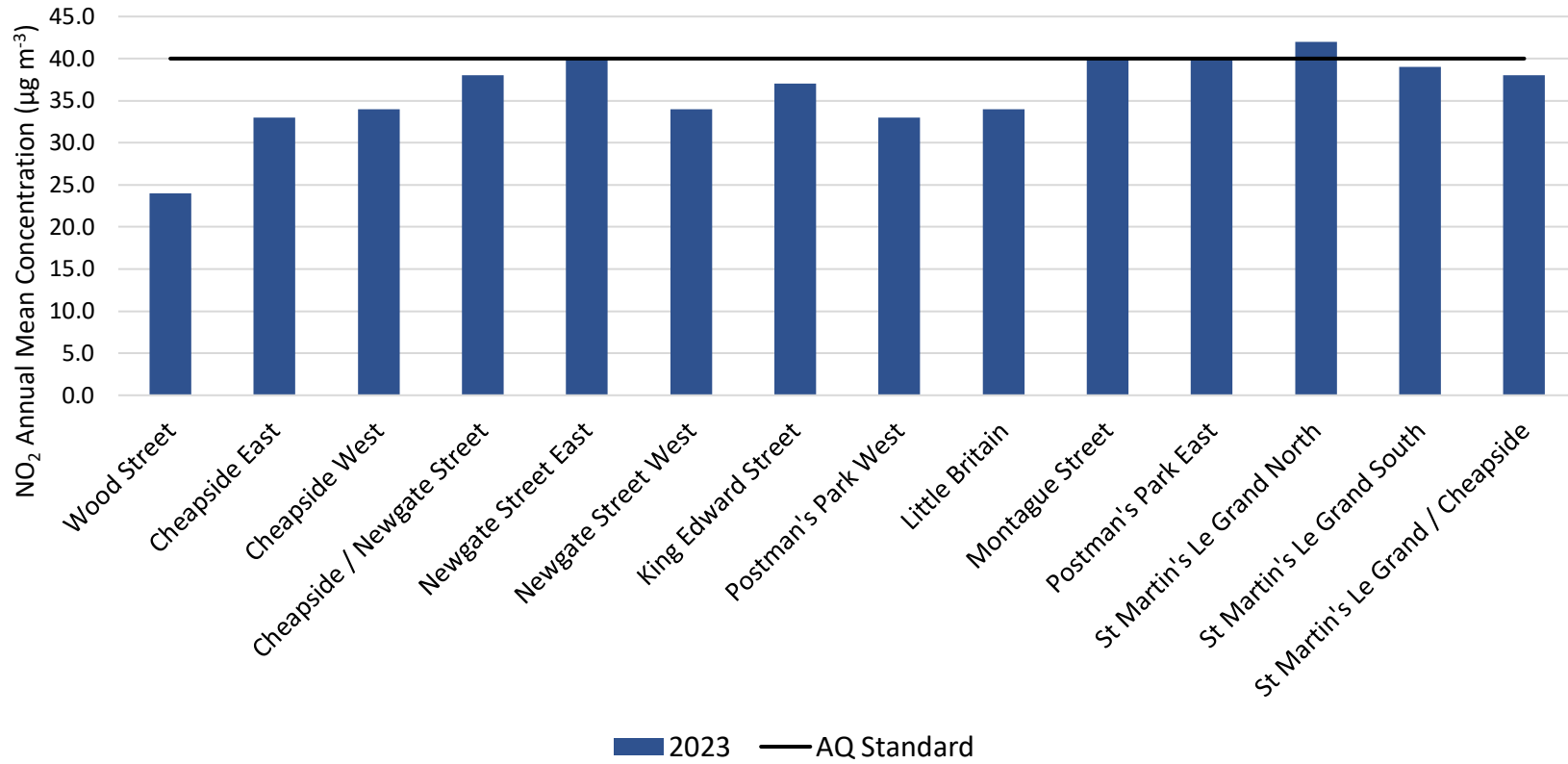
## Annual Mean NO<sub>2</sub>: Diffusion tube supporting the Transport Strategy



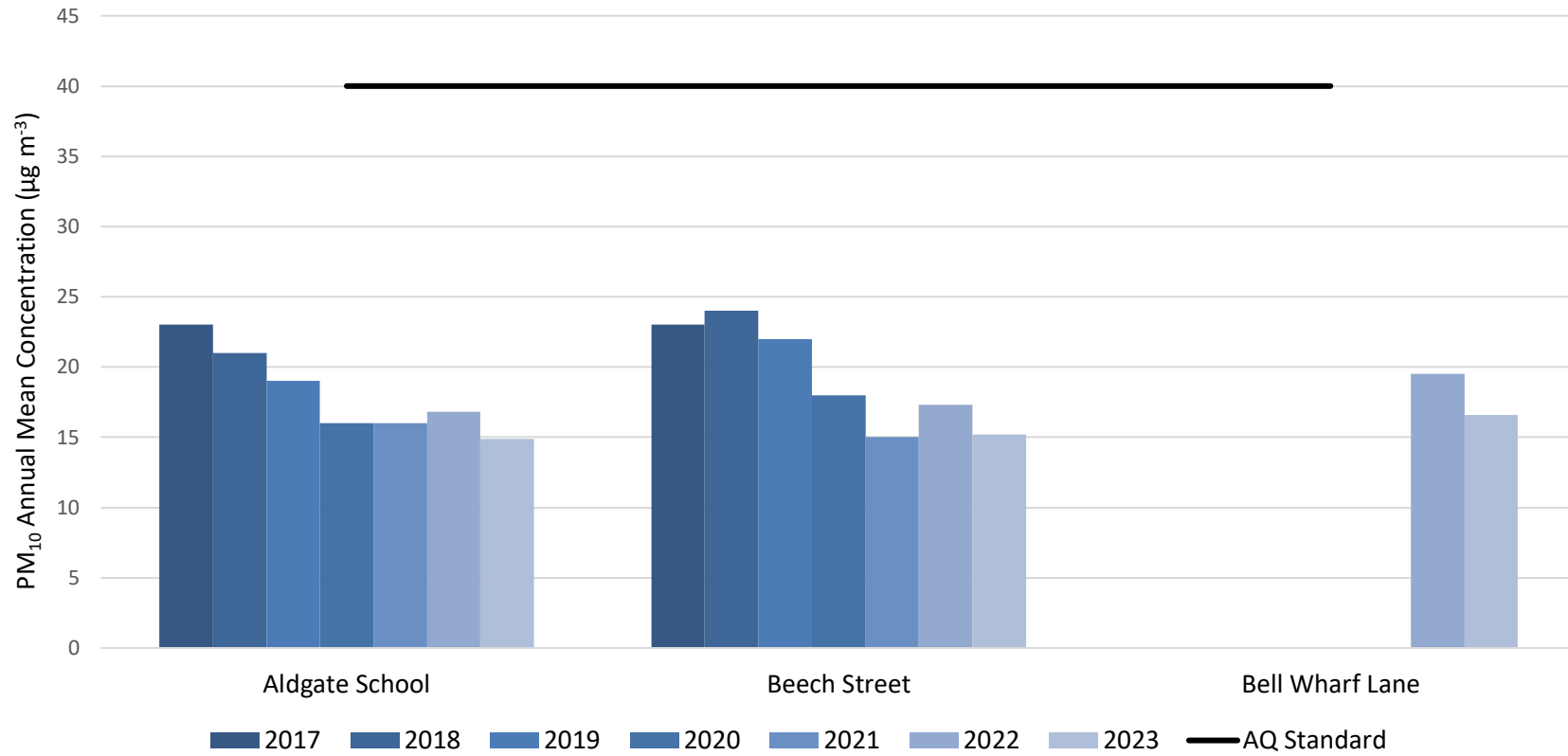
## Annual mean NO<sub>2</sub>: Diffusion tubes measuring the impact of the Beech Street Zero Emissions Street Pilot



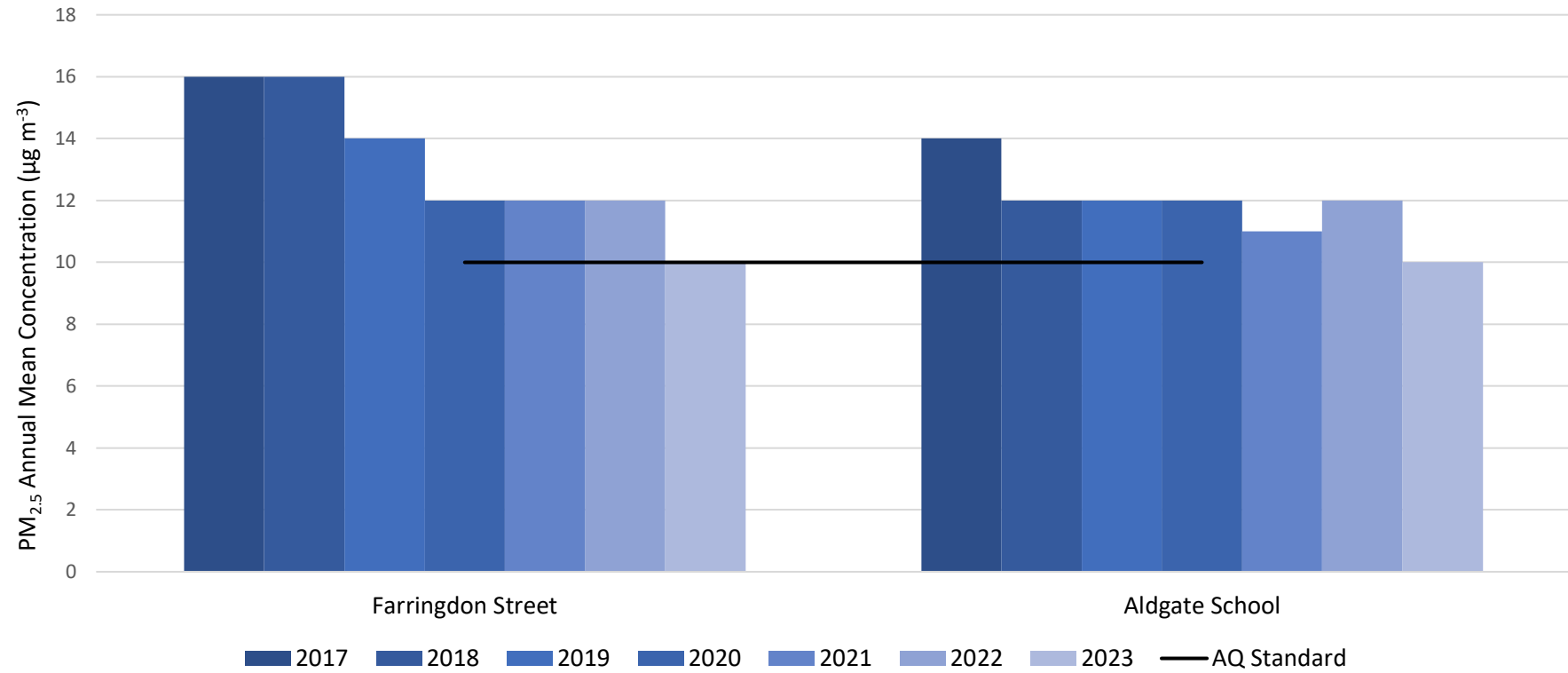
## Annual Mean NO<sub>2</sub>: Diffusion tube supporting the impact of the St Martins Le Grand Regeneration Project



# Annual Mean PM<sub>10</sub>



## Annual Mean PM<sub>2.5</sub>





## Air quality monitoring locations, 2023

Air quality monitoring locations are reviewed annually. Some core monitoring sites are maintained, and other sites are added and removed according to the needs of research projects, planned programmes and local investigations or concerns.

The maps below show locations where monitoring took place during 2023 using diffusion tubes, and the more accurate automatic monitoring equipment

