

Appendix 2 – 2020 Air Quality Data for ELAC

Nitrogen Dioxide (Continuous Analysers)

Site	Pollutant	Air Quality Objective	Measured As	Value/Exceedances	Objective Achieved
Southampton Road	NO ₂	40 µg/m ⁻³	Annual Mean	26.3 µg/m ⁻³	Yes
		200 µg/m ⁻³ (not to be exceeded more than 18 times per year)	Hourly Mean	0 Exceedances	Yes
The Point	NO ₂	40 µg/m ⁻³	Annual Mean	20.0 µg/m ⁻³	Yes
		200 µg/m ⁻³ (not to be exceeded more than 18 times per year)	Hourly Mean	0 Exceedances	Yes
Steele Close	NO ₂	40 µg/m ⁻³	Annual Mean	19.1 µg/m ⁻³	Yes
		200 µg/m ⁻³ (not to be exceeded more than 18 times per year)	Hourly Mean	0 Exceedances	Yes

Nitrogen Dioxide (Diffusion tubes for selected locations)

Site	Pollutant	Air Quality Objective	Measured As	Value	Objective Achieved
Southampton Road 1	NO ₂	40 µg/m ⁻³	Annual Mean	33.1 µg/m ⁻³	Yes
Leigh Road / Pluto Road				23.9 µg/m ⁻³	Yes
Leigh Road / Junction 13				30.7 µg/m ⁻³	Yes
Belmont Road				20.8 µg/m ⁻³	Yes
Hadleigh Gardens				14.8 µg/m ⁻³	Yes

PM (Continuous analyser)

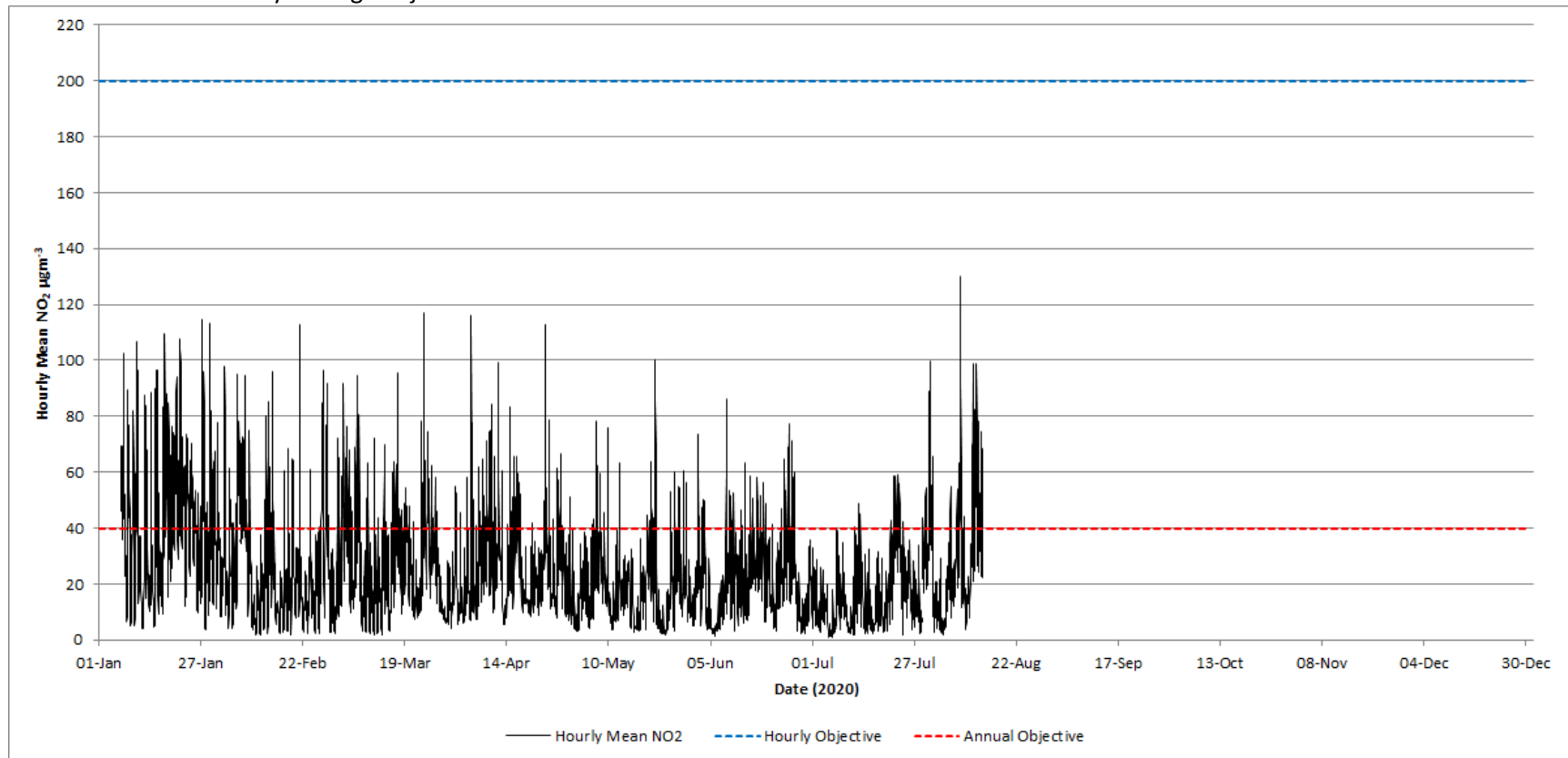
Site	Pollutant	Air Quality Objective	Measured As	Value/Exceedances	Objective Achieved
Southampton Road	PM ₁₀	40 µg/m ⁻³	Annual Mean	16.9 µg/m ⁻³	Yes
		50 µg/m ⁻³ (not to be exceeded more than 35 times per year)	24 Hour Mean	0 Exceedances	Yes
Southampton Road	PM _{2.5}	25 µg/m ⁻³	Annual Mean	8.7 µg/m ⁻³	Yes

Nitrogen Dioxide (Continuous Analysers)

Displayed as hourly averages

Red dashed line = Annual average objective level

Blue dashed line = Hourly average objective level



Southampton Road

Data gaps of over 24 hours

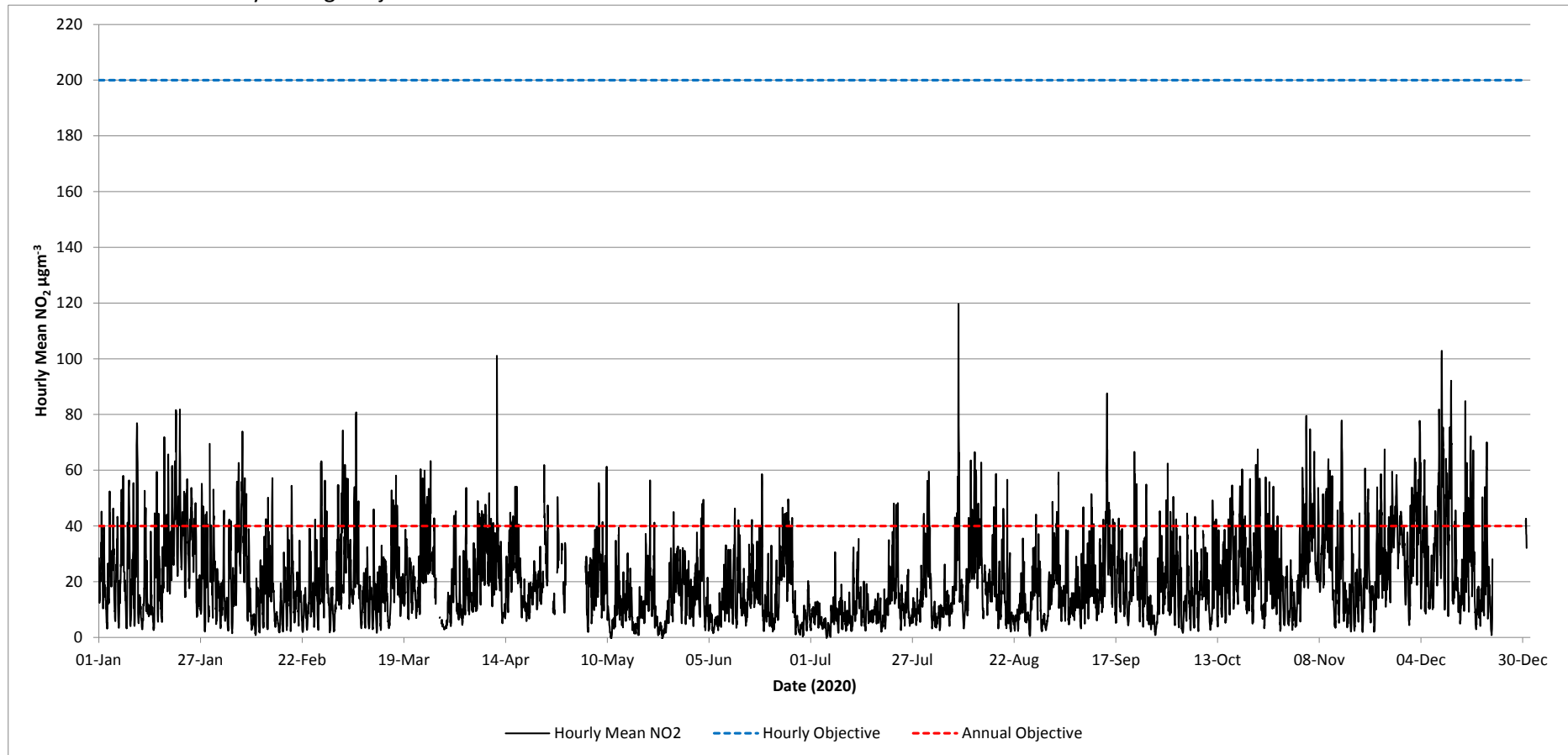
01-Jan to 06-Jan: Due to an incremental drift in measurements identified in ratification, which was fixed at the January 2020 service.

13-Aug to 31-Dec: Due to a leak in the cabinet resulting in substantial water ingress, the analysers were removed while a cabinet replacement was organised.

Displayed as hourly averages

Red dashed line = Annual average objective level

Blue dashed line = Hourly average objective level



The Point

Data gaps of over 24 hours

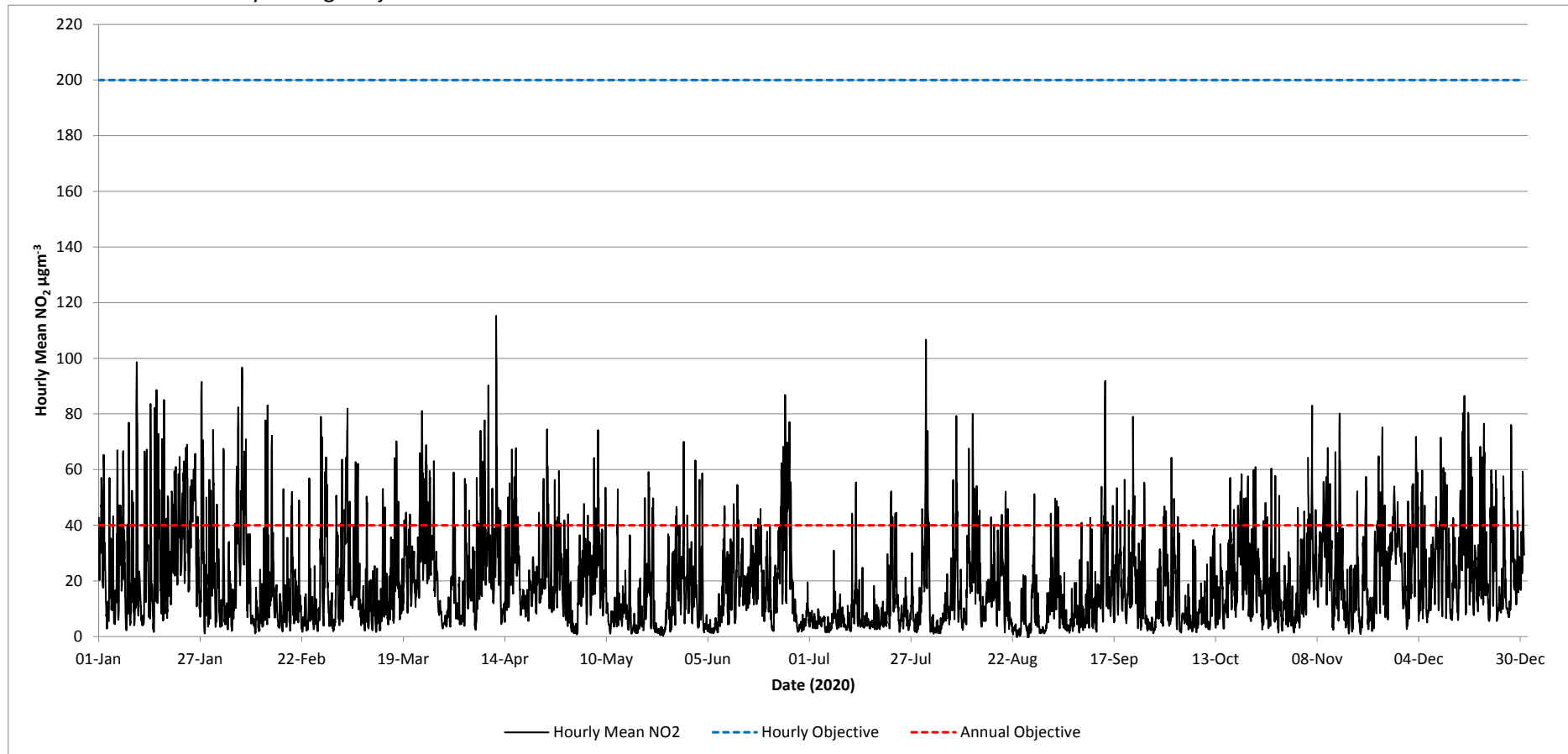
27 – 28 Mar, 24 Apr – 4 May: Communication problems, solved when the new analyser was installed on 4 May.

22 – 30 Dec: Communication problems and Christmas office closure, solved by modem reset in January.

Displayed as hourly averages

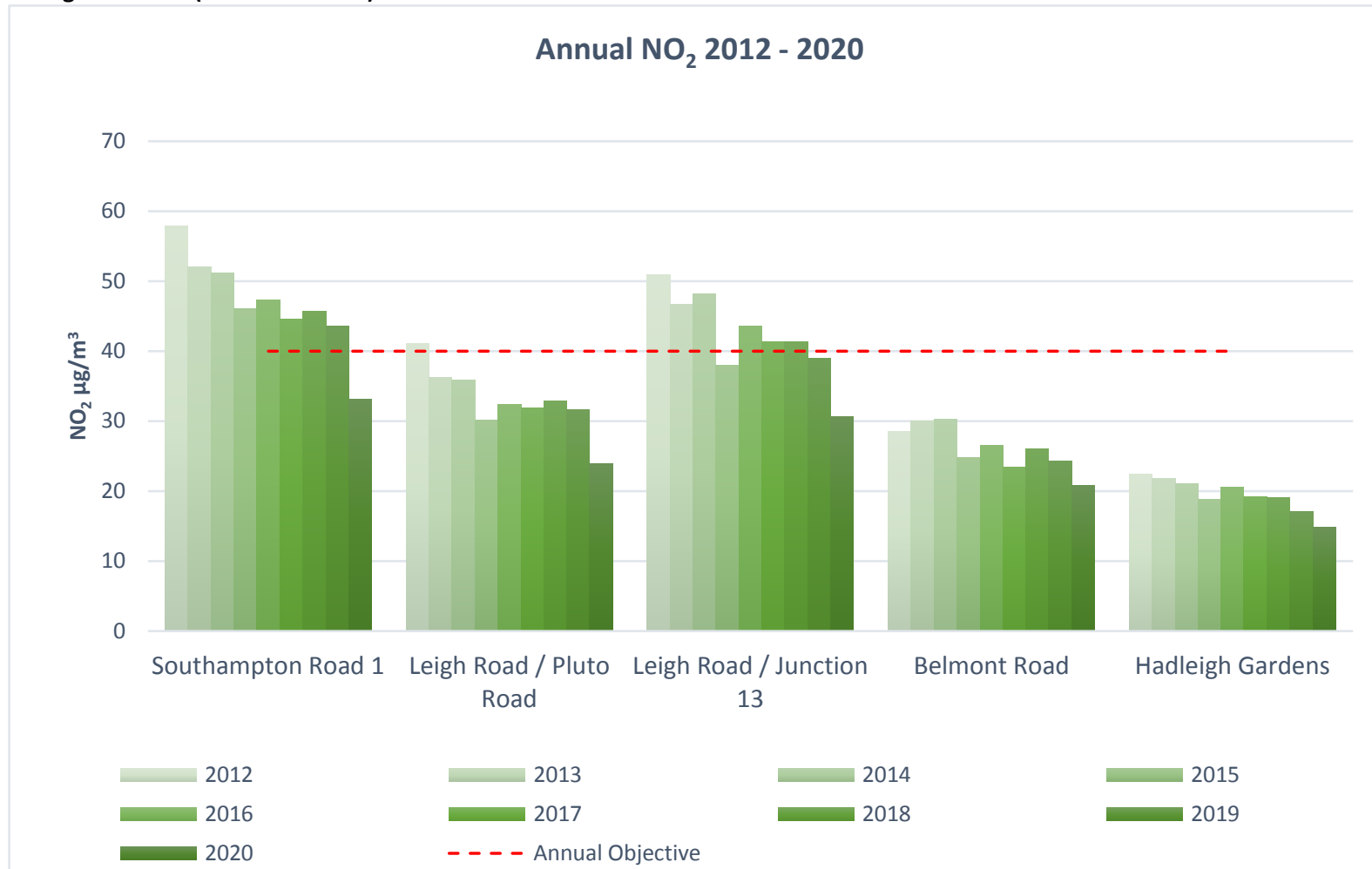
Red dashed line = Annual average objective level

Blue dashed line = Hourly average objective level



Steele Close

Nitrogen Dioxide (Diffusion Tubes)



Long term trends at selected diffusion tube sites across ELAC

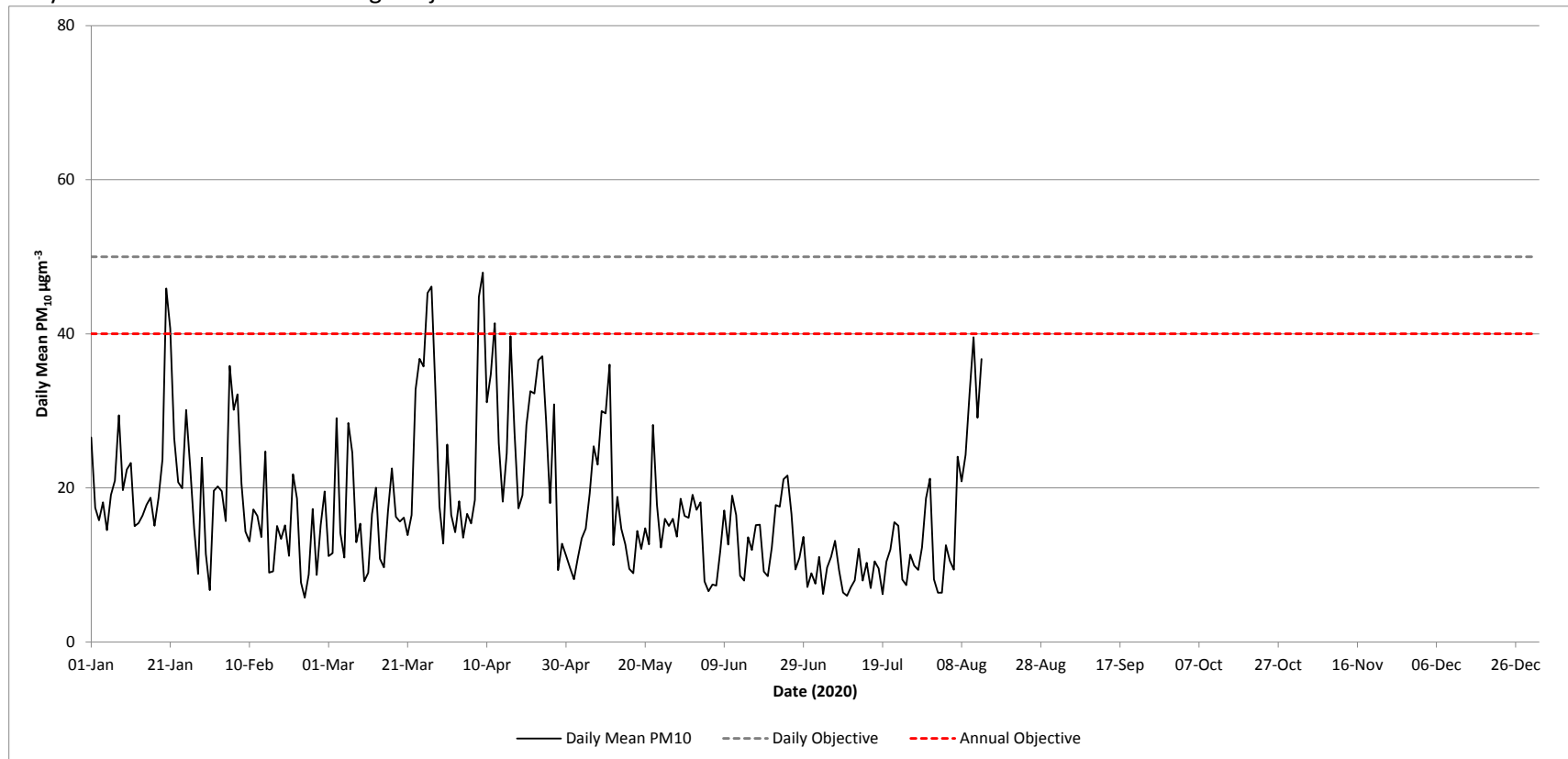
Data Gaps: DEFRA guidance has been followed when analysing 2020 data, in accordance with this results for March, April and May 2020 have not been included. This is due to inconsistency with sampling periods and use of tubes beyond their expiry date caused by the Covid-19 lockdown.

PM₁₀ (Continuous Analyser)

Displayed as 24 hour averages

Red dashed line = Annual average objective level

Grey dashed line = 24 hour average objective level



Southampton Road

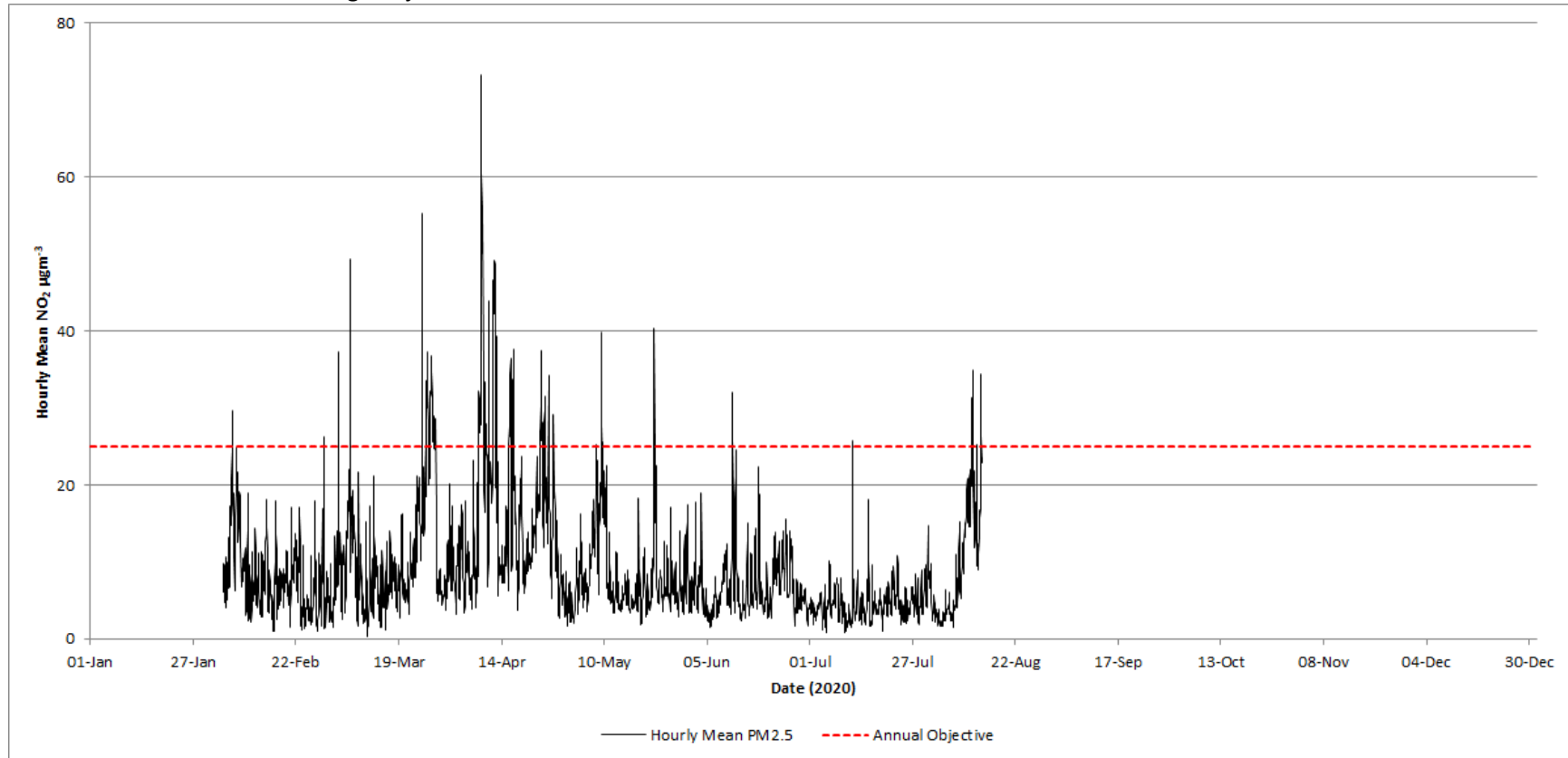
Data gaps of over 24 hours

13-Aug to 31-Dec: Due to a leak in the cabinet resulting in substantial water ingress, the analysers were removed while a cabinet replacement was organised.

PM_{2.5} (Continuous Analyser)

Displayed as 24 hour averages

Red dashed line = Annual average objective level



Southampton Road

Data gaps of over 24 hours

1-Jan to 3-Feb: Period before the installation of the PM_{2.5} analyser.

13-Aug to 31-Dec: Due to a leak in the cabinet resulting in substantial water ingress, the analysers were removed while a cabinet replacement was organised.