Annual Air Quality Information, 2012

Dublin Airport

HSSE Department

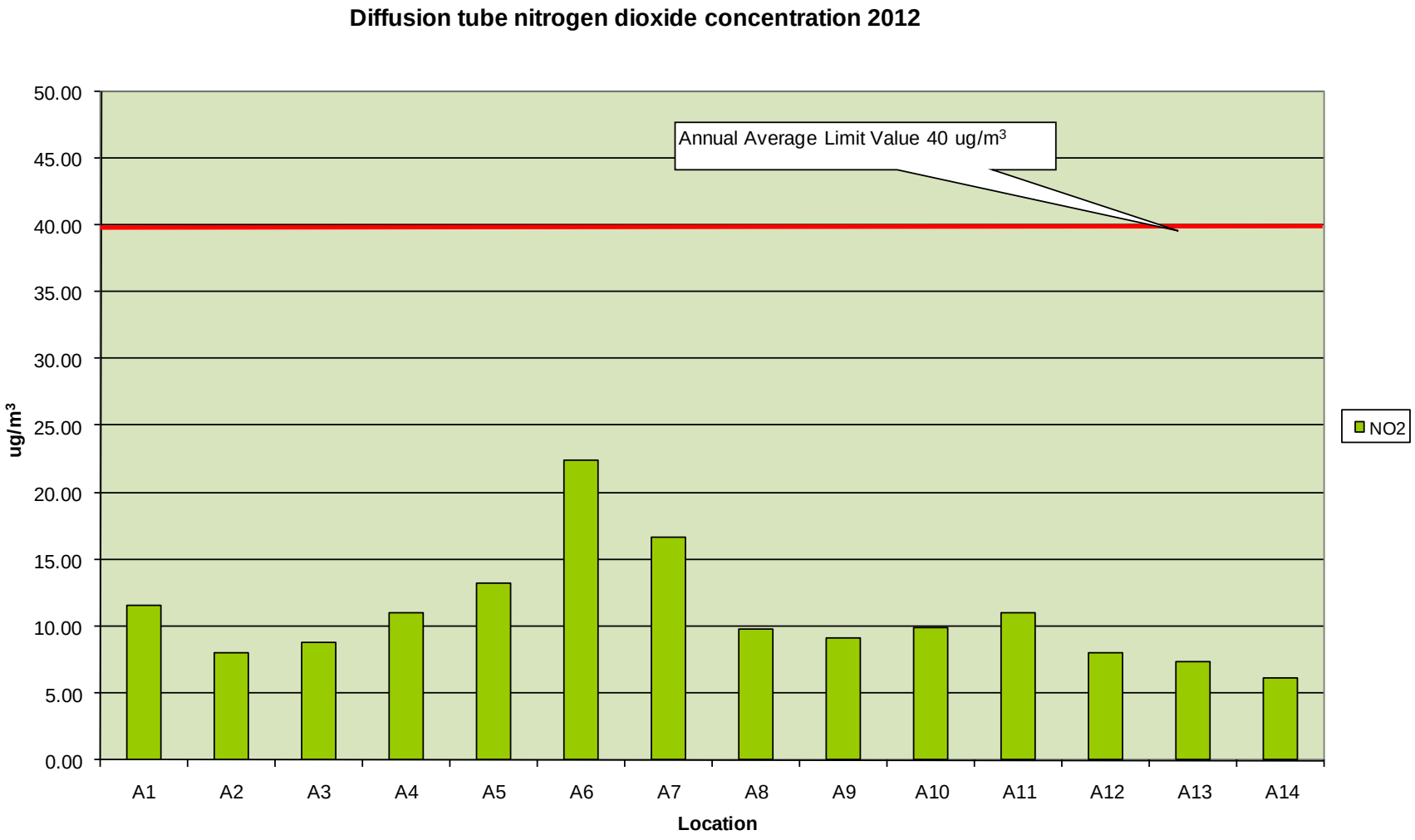
INTRODUCTION

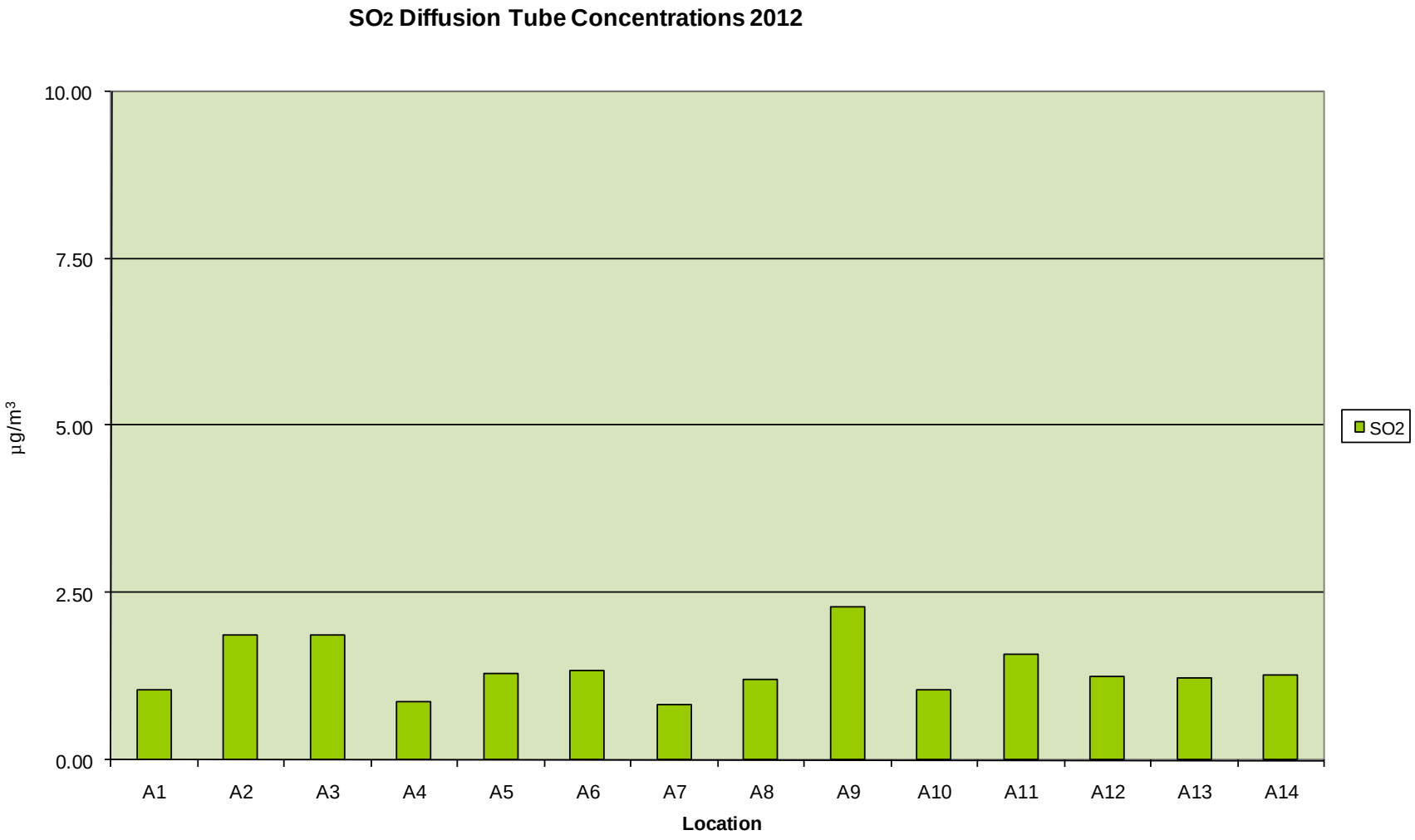
Dublin Airport Authority (DAA) carries out extensive ambient air monitoring at Dublin Airport and the surrounding area. DAA operate an air monitoring station on site at the airport and carry out diffusion tube monitoring in the surrounding areas. A list of these locations is presented in the table below.

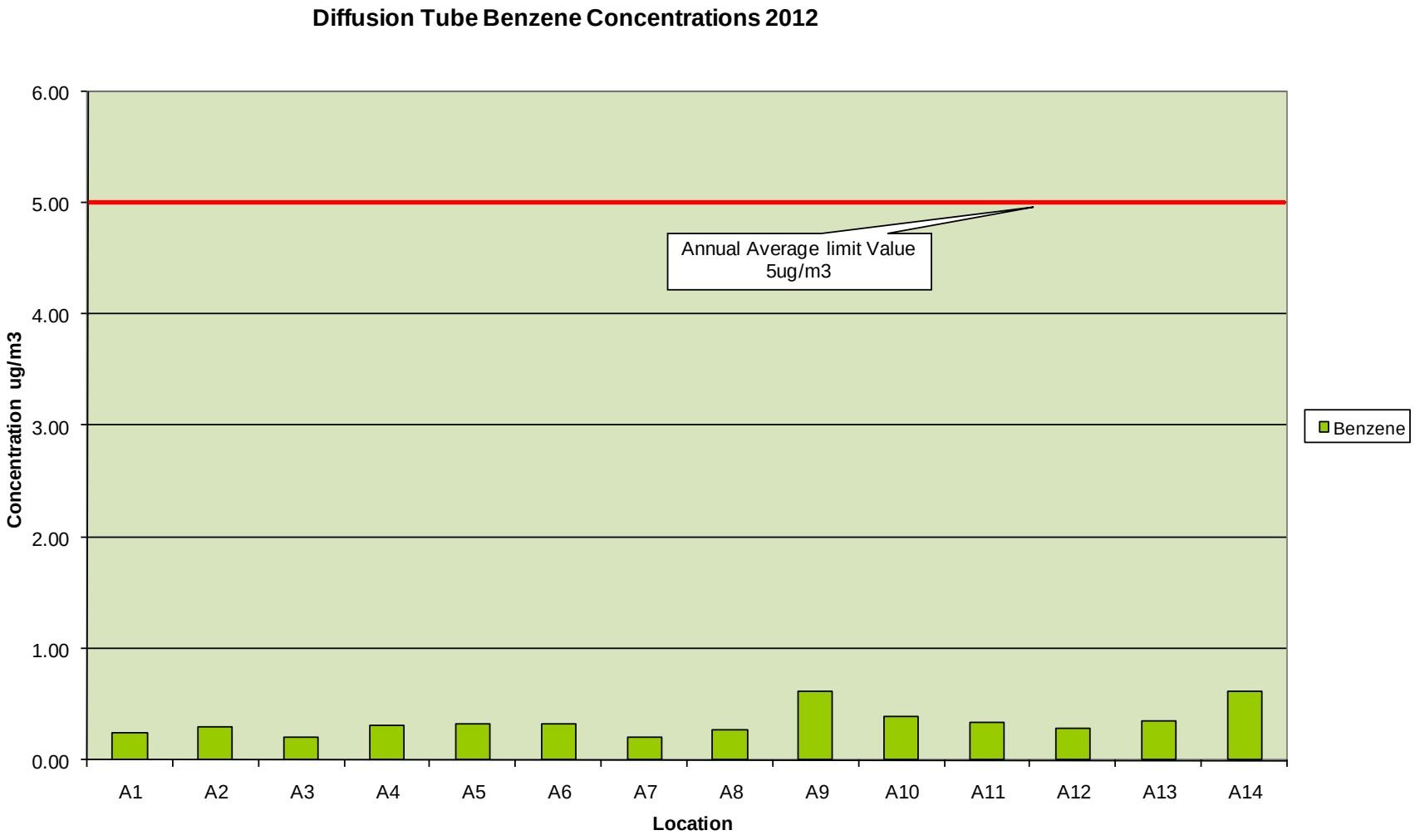
This report presents a summary of the air quality results for a range of air quality parameters in 2012. The parameters include benzene, nitrogen dioxide (NO_2); sulphur dioxide (SO_2) and particulate matter of diameter less than 10 microns (PM_{10})

For comparison purposes the Ambient Air Quality Standards Regulations 2011 (SI 180 of 2011) are referenced. The Air Quality Standards Regulations do not require individual companies or operators to carry out air monitoring or compare the results with limit values specified in the Air Quality Standards Regulations. Monitoring for compliance with the Regulations is the responsibility of local authorities and is supervised by the competent authority under the Regulations, the EPA. The results of the DAA monitoring programme are compared with the limit values contained within the Regulations as a means of illustrating the general air quality at each location and not as a measure of compliance.

Reference	Location	Passive Tubes
A1	Forrest Little Golf Club	✓
A2	Kilreesk Lane, St. Margaret's	✓
A3	Ridgewood Estate West, Swords	✓
A4	St. Margaret's School & Parish House	✓
A5	Fire Station, Huntstown, Dublin Airport	✓
A6	Eastern Boundary Fence, Dublin Airport	✓
A7	Western Boundary Fence, Dublin Airport	✓
A8	St. Nicholas of Myra School, Malahide Road	✓
A9	Naomh Mearnóg GAA Club, Portmarnock	✓
A10	Oscar Papa Site, Portmarnock	✓


Diffusion tube nitrogen dioxide concentration 2012
Annual Average Limit Value 40 ug/m3
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
ug/m3
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
Location
NO2


SO2 Diffusion Tube Concentrations 2012
10.00
7.50
5.00
2.50
0.00
µg/m3
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
Location
SO2


Diffusion Tube Benzene Concentrations 2012
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Concentration ug/m3
Annual Average limit Value
5ug/m3
Benzene
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
Location

Airport Monitoring Station Results 2012

Figure 2.1.: Average Daily nitrogen dioxide concentrations January to December 2012

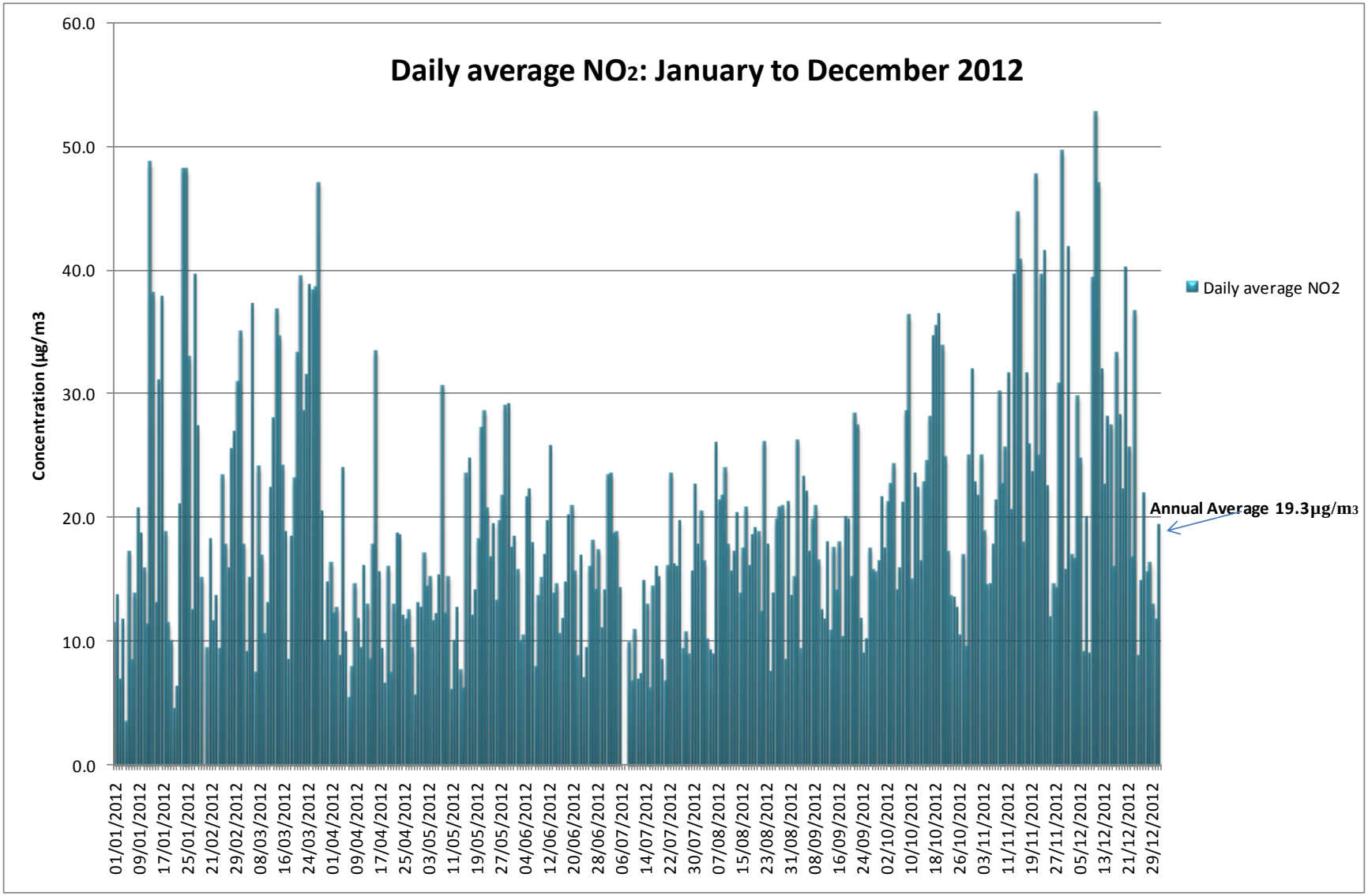


Figure 2.2: Average daily PM_{10} concentrations January to December 2012

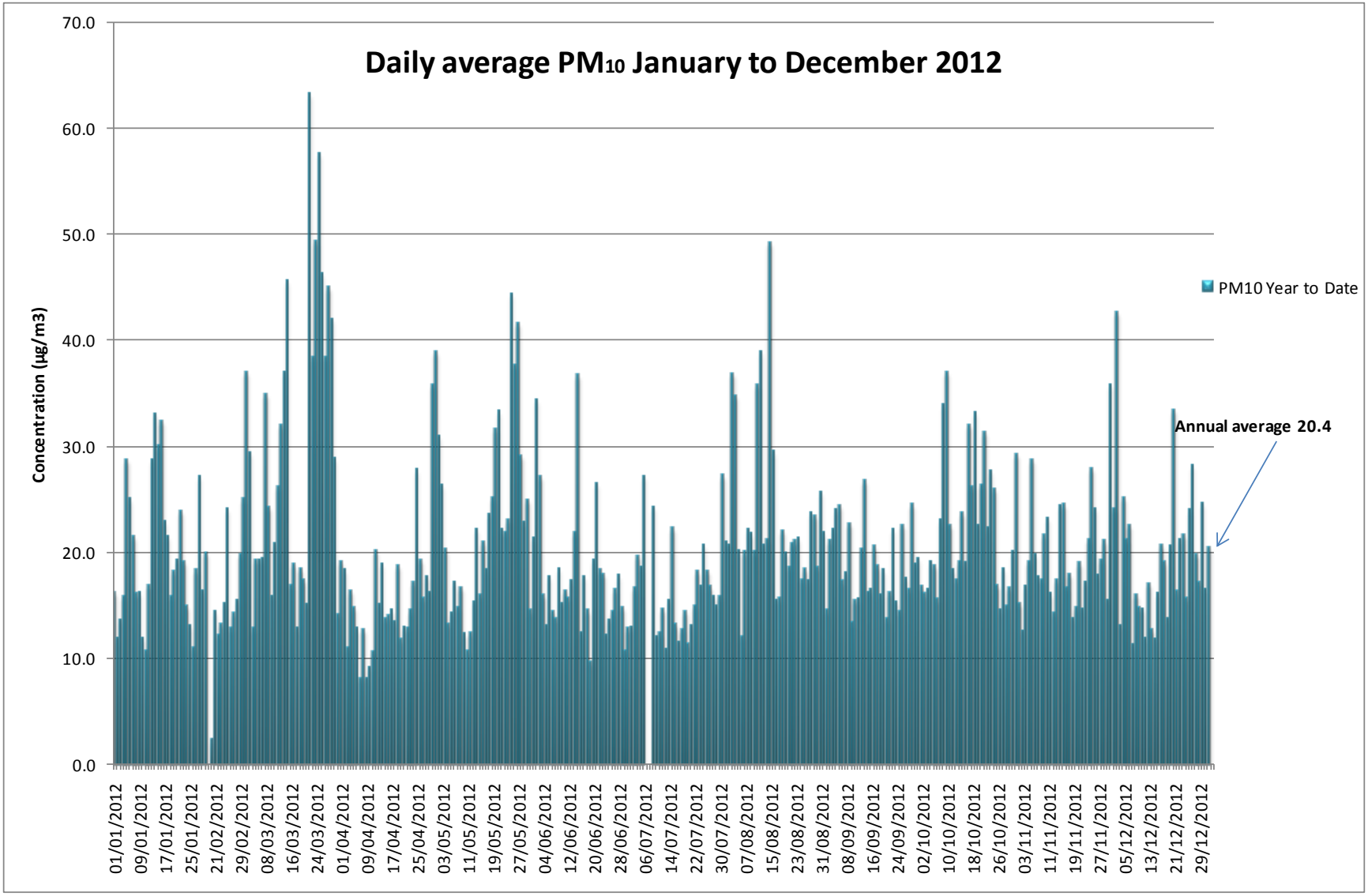


Table 2.1: Comparisons with EPA national network stations for year 2011 (EPA Annual Report)

Location	NO_2	PM_{10}
Winetavern St (City Centre)	34	14
Rathmines	20	16
Phoenix Park	-	12
Ringsend	32	20
Dublin Airport Station	**19**	**20**
Swords	14	-
Blanchardstown	31	27
Ennis		22
Annual Limit Value	40	40