



Dublin Airport Update

February 26, 2025

Agenda

Dublin Airport Environmental Working Group

26 February 2025

17.00 at Carlton Hotel, Dublin Airport

1. Apologies
2. Minutes of Previous Meeting
3. Matters Arising
4. Dublin Airport Update
5. Air Quality
6. Water Quality
7. Noise and Flight Track Monitoring
8. Fingal County Council Planning Applications
9. Members Update
10. AOB



daa Actions from Previous Meeting and Dublin Airport Update

Michelle Molloy
Community Engagement Manager

No	Issue	daa response
1.	AK advised on the policies that daa have in place with the bus companies and advised she will revert with further information on the buses for the next meeting.	Information will be provided as part of the air quality update
2.	AK committed to revert with further information on the fertiliser and processes for its use at Dublin Airport.	Information will be provided as part of the water quality update
3.	GD requested copies of noise reports and MM committed to provide a link to page on the Dublin Airport site	Sent to members by email on 18 December
4.	On 24 December, GD provided a list of conditions associated with T2 for investigation and response by daa	Information will be provided as part of the daa update
5.	JD advised 2025 dates for meetings will be provided by email for review before dates are confirmed.	Sent to members by email on 18 December

- Dublin Airport welcomed 33.3m passengers in 2024; this was a 4% increase on 2023 passenger numbers.
- Dublin Airport welcomed 2.1m passengers in January 2025; this was a similar level to January 2024 numbers due to the passenger cap.
- daa resubmitted its Operational Application to Fingal County Council on 5 February 2025 seeking permission to increase capacity at Dublin airport to 36 million passengers per annum.
- Dublin Airport celebrated the 85th anniversary of its opening on 19 January. Since the first flight departed Dublin Airport's single grass runway in 1940, more than 700 million passengers have flown in and out of the airport.
- As part of its 2024 Charities of the Year programme, daa raised €500,000 for three worthy charities: A Little Lifetime Foundation, Cliona's Foundation and Cork Penny Dinners.
- daa is proactively proceeding with a new sound insulation grant scheme for up to 400 eligible homes. We are contacting eligible homeowners with further details of how to avail of the grant, which has been increased by 50% to €30,000 per eligible home.



DAEWG Mobile Noise Monitor

The temporary noise monitor is currently located at River Valley in Swords and is scheduled to remain there until July. The next location for this monitor is Rivermeade, which was agreed at our last meeting.

Additional Noise Monitors

- Dublin Airport will make five further temporary noise monitors available for community noise monitoring.
- Locations and durations will be decided by the DAEWG (two monitors), CLG (two monitors), and daa (one monitor).
- The monitors have been ordered and we expect delivery in Quarter 2.
- daa also received requests for temporary monitors from residents in Wotton, Ballystrahan and Stockhole.
- Nominations are requested from DAEWG members, with below draft rota presented for agreement today.

DAEWG	Location	Duration
Temp. NMT1	River Valley	Feb. 2025 – July 2025
	Rivermeade	July 2025 – Dec. 2025
Temp. NMT2	Ballystrahan	June 2025 – Dec. 2025
Temp. NMT3	Stockhole Lane	June 2025 – Dec. 2025

daa	Location	Duration
Temp. NMT1	Wotton	June 2025 – Dec. 2025



Water Quality Update

26 February 2025

Sample locations - entering daa lands												
Month	C1- Cuckoo Stream			C4- Cuckoo Stream			S1 - Santry Stream*			M1- Mayne Stream*		
	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N
November	1.6	22	0.12	18	119	7.8	Sample dry			Sample dry		
December	1.9	35	0.13	16	92	2.17	-	-	-	-	-	-
January	1.1	<5	0.06	6.7	60	0.99	-	-	-	-	-	-

Sample locations - on daa lands												
Month	K2 - Kealys Stream			NRML 7 - Forrest Little			W1 - Wad Stream*			NRML 1 - Ward Stream*		
	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N
November	0.7	10	0.46	5.6	28	5.92	<4	108	0.01	1.3	26	0.05
November - extra samples	-	-	-	-	-	2.28	-	-	-	-	-	-
						0.06						
December	2.1	10	0.24	1.9	16	0.01	-	-	-	-	-	-
January	163	282	0.25	2.5	18	0.01	-	-	-	-	-	-

Sample locations - leaving daa lands									
Month	C9 - Cuckoo Stream**			M5- Mayne Stream***			S3 - Santry Stream		
	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N mg/L	BOD mg/L	COD mg/L	Ammonia as N mg/L
November	No sample in sampler			0.6	15	0.05	0.9	15	0.01
				1	24	0.09			
	No sample retrieved			4.6	23	0.02			
				<4	63	<0.01			
December	1.2	15	0.42	114	167	0.1	0.7	14	0.01
				49	92	0.01			
	1.3	12	0.05	2.8	7	0.07			
				1.5	25	0.03			
January	14	29	0.01	0.9	15	0.08	0.5	<5	0.02
				23	61	<0.01			
	24	58	0.21	72	122	0.01			
				4.5	107	0.03			

*quarterly sample
 **twice monthly sample
 ***weekly sample



Air Quality Update

26 February 2025

- Revised Directive entered into force on 10 December 2024 (not yet transposed into Irish Regulations)
- Aligns 2030 EU Air Quality Standards more closely with WHO recommendations

Pollutant	Averaging time	2011 Air Quality Standards	WHO interim target 2	WHO interim target 3 (Irish AQ strategy commitment - 2026)	WHO interim target 4 (Irish AQ strategy commitment - 2030)	Final WHO AQG (Irish AQ strategy commitment – 2040)	Proposed 2030 EU Air Quality Standards
NO ₂	Annual	40	30	20	-	10	20
	24 hours	-	50	-	-	25	50*
	Hour	200*	-	-	-	-	200***
PM ₁₀	Annual	40	50	30	20	15	20
	24 hours	50**	100	75	50	45	45*
PM _{2.5}	Annual	20	25	15	10	5	10
	24 hours	NA	50	37.5	25	15	25*
Benzene	Annual	5	-	-	-	-	3.4

*Not to be exceeded more than 18 times per calendar year

** Not to be exceeded more than 35 times per calendar year

*** Not to be exceeded more than once per calendar year

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- Aligns 2030 EU Air Quality Standards more closely with WHO recommendations

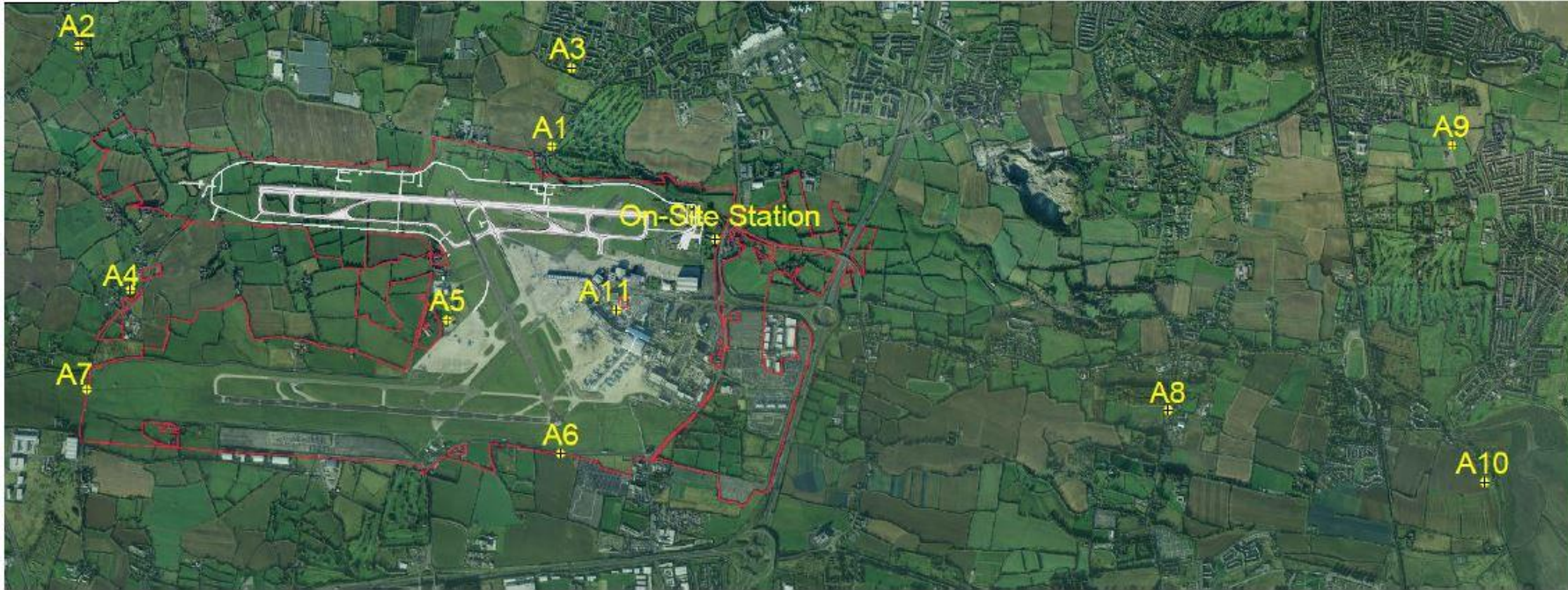
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NO ₂	Annual	40	30	20	-	10	20
	24 hours	-	50	-	-	25	50*
	Hour	200*	-	-	-	-	200***
PM ₁₀	Annual	40	50	30	20	15	20
	24 hours	50**	100	75	50	45	45*
PM _{2.5}	Annual	20	25	15	10	5	10
	24 hours	NA	50	37.5	25	15	25*
Benzene	Annual	5	-	-	-	-	3.4

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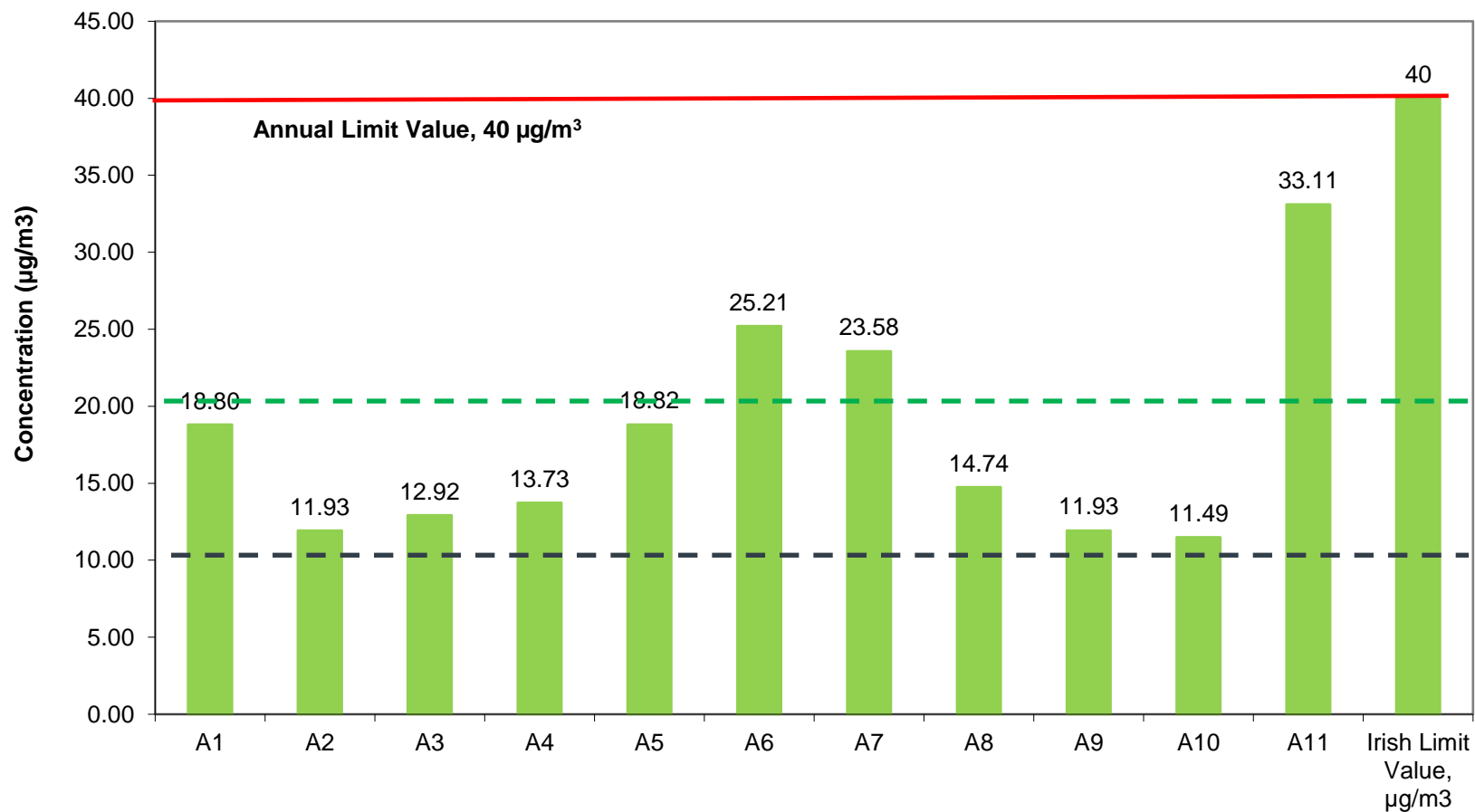
** Not to be exceeded more than 35 times per calendar year

*** Not to be exceeded more than once per calendar year

Dublin Airport Air Quality Monitoring locations

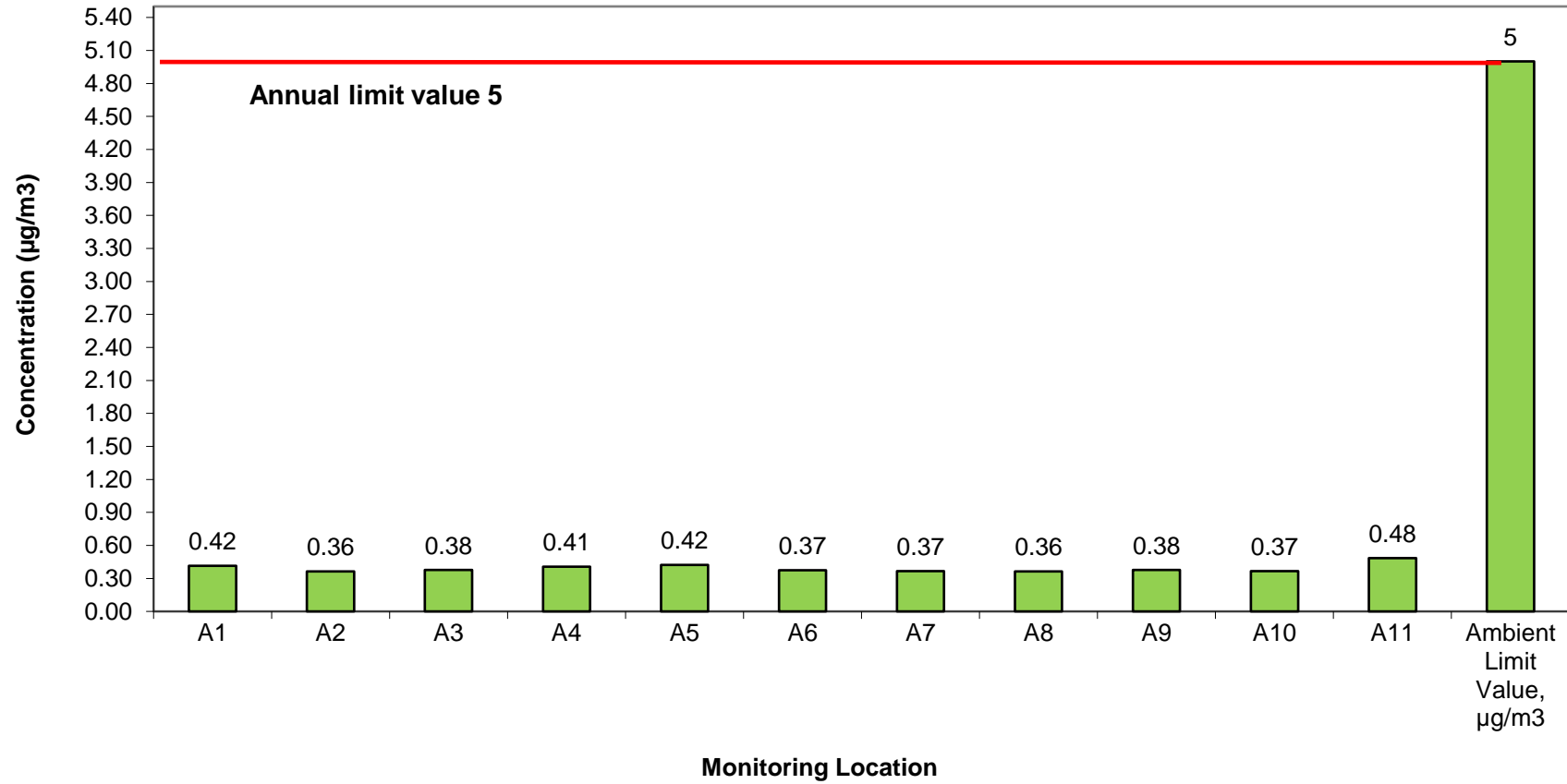


Average Monthly NO₂ Concentrations from January to December 2024

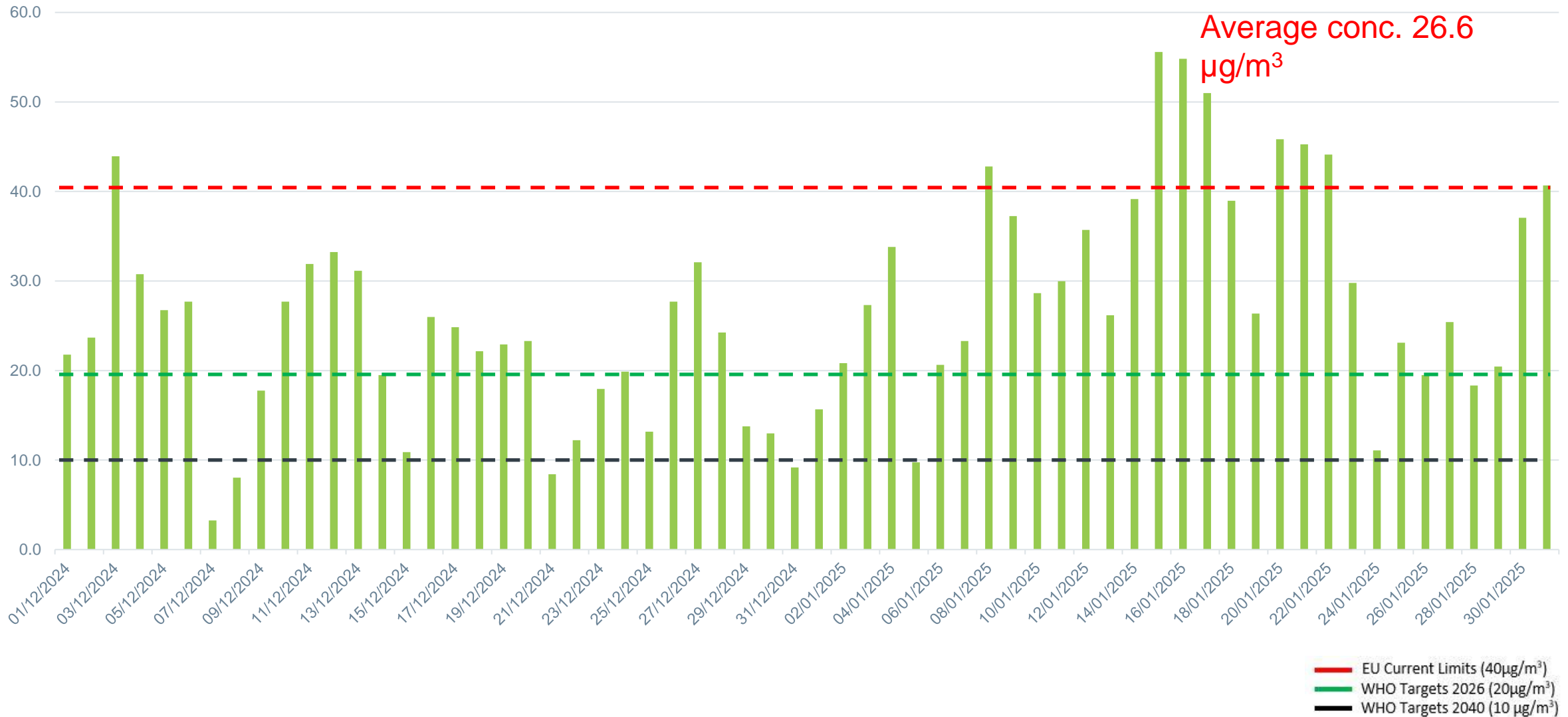


- EU Current Limits (40µg/m³)
- - - WHO Targets 2026 (20µg/m³)
- - - WHO Targets 2040 (10 µg/m³)

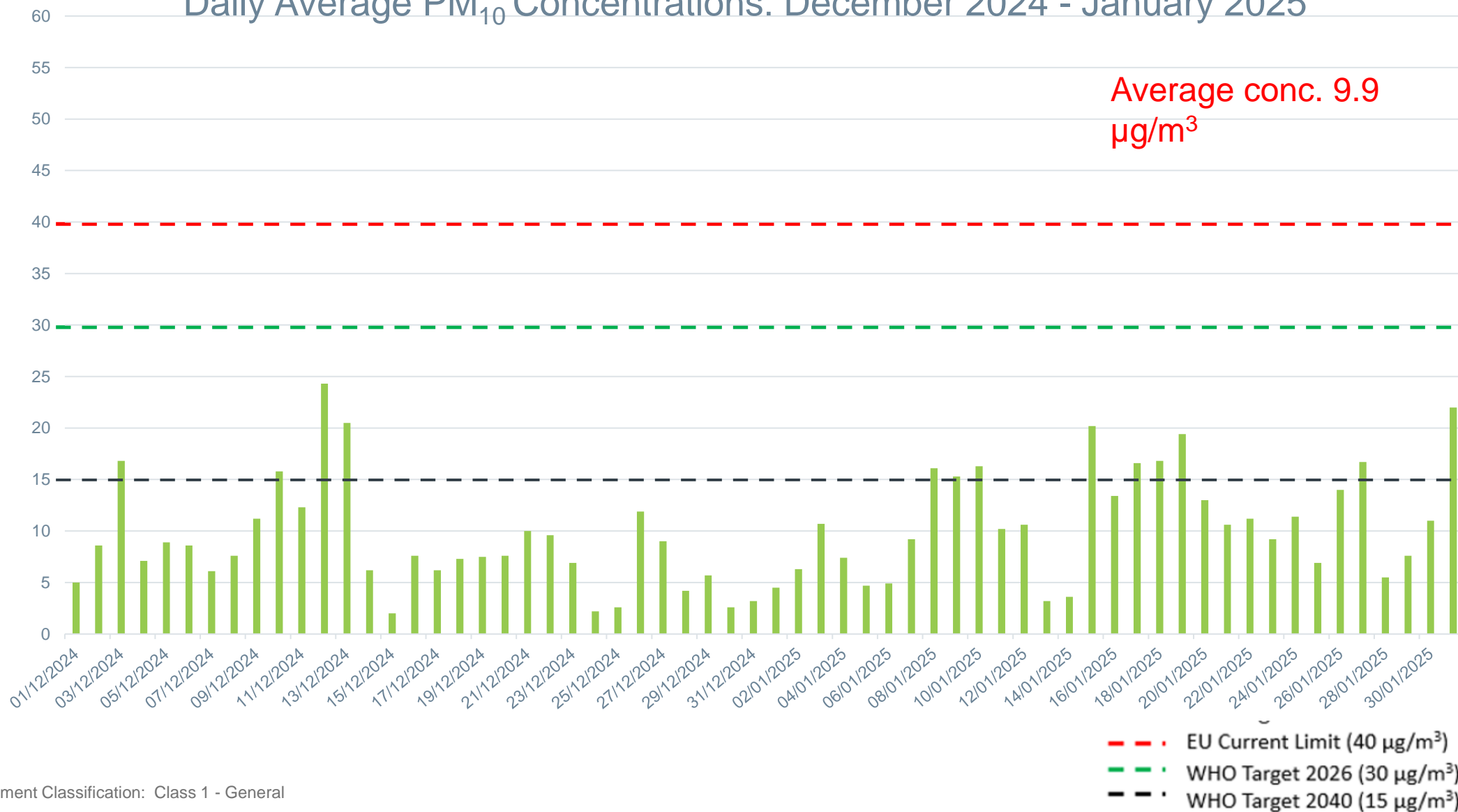
Average Monthly Benzene Concentrations from January to December 2024



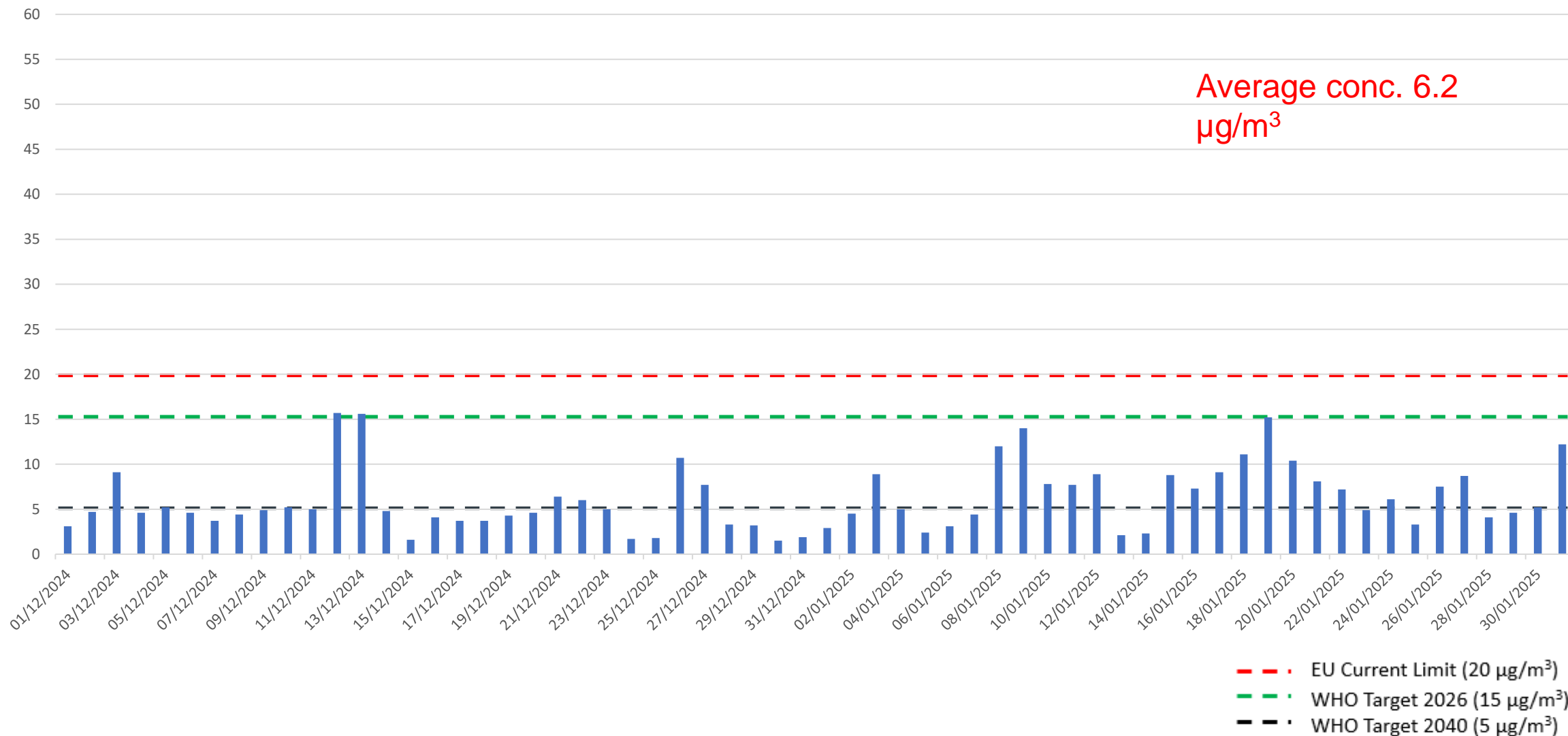
Daily Average NO₂ Concentration: December 2024 - January 2025



Daily Average PM₁₀ Concentrations: December 2024 - January 2025



Daily Average PM_{2.5} Concentration: December 2024 - January 2025





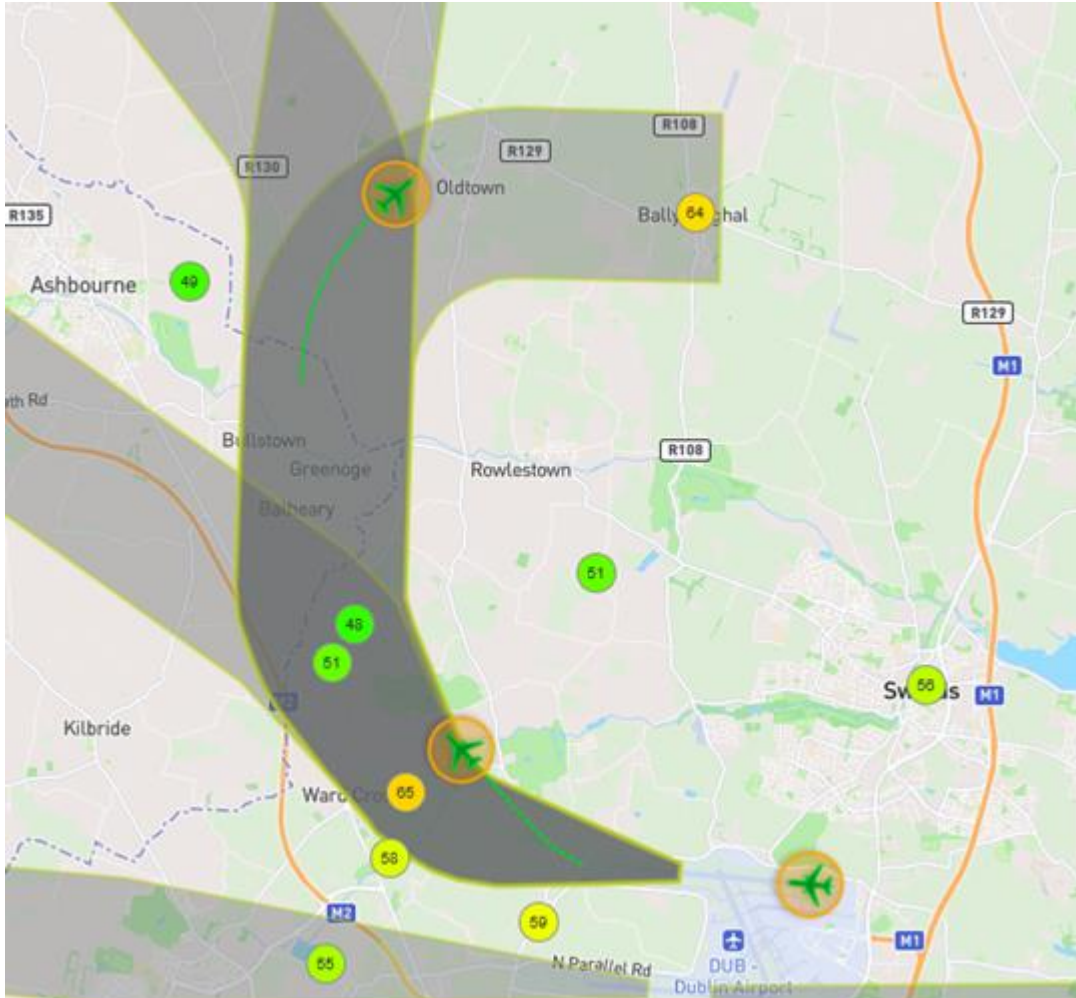
Noise and Flight Track Monitoring

26 February 2025

	Item	
1	Webtrak	New features
2	Monthly reports	New/draft features <ul style="list-style-type: none">• December 2024 – annual data• Draft Swathe data• Draft Hourly Movement and Complaint data
3	Quarterly Report	2024 Q1/2/3 error correction

NPR Excursion Indicator

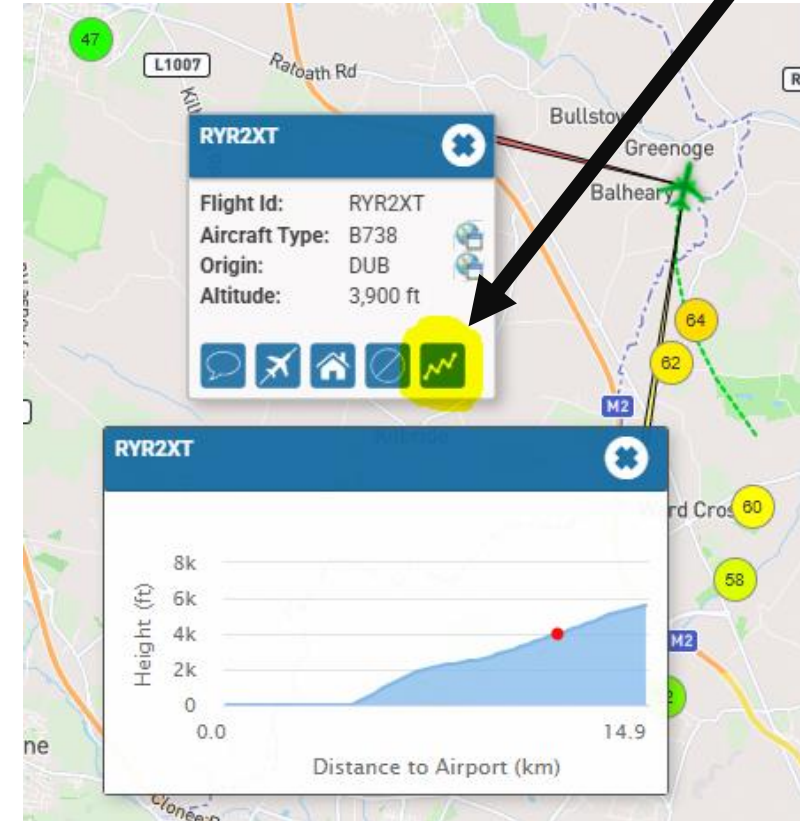
The orange ring appears throughout the entire flight when departing aircraft deviate from the NPR.



Altitude Profile

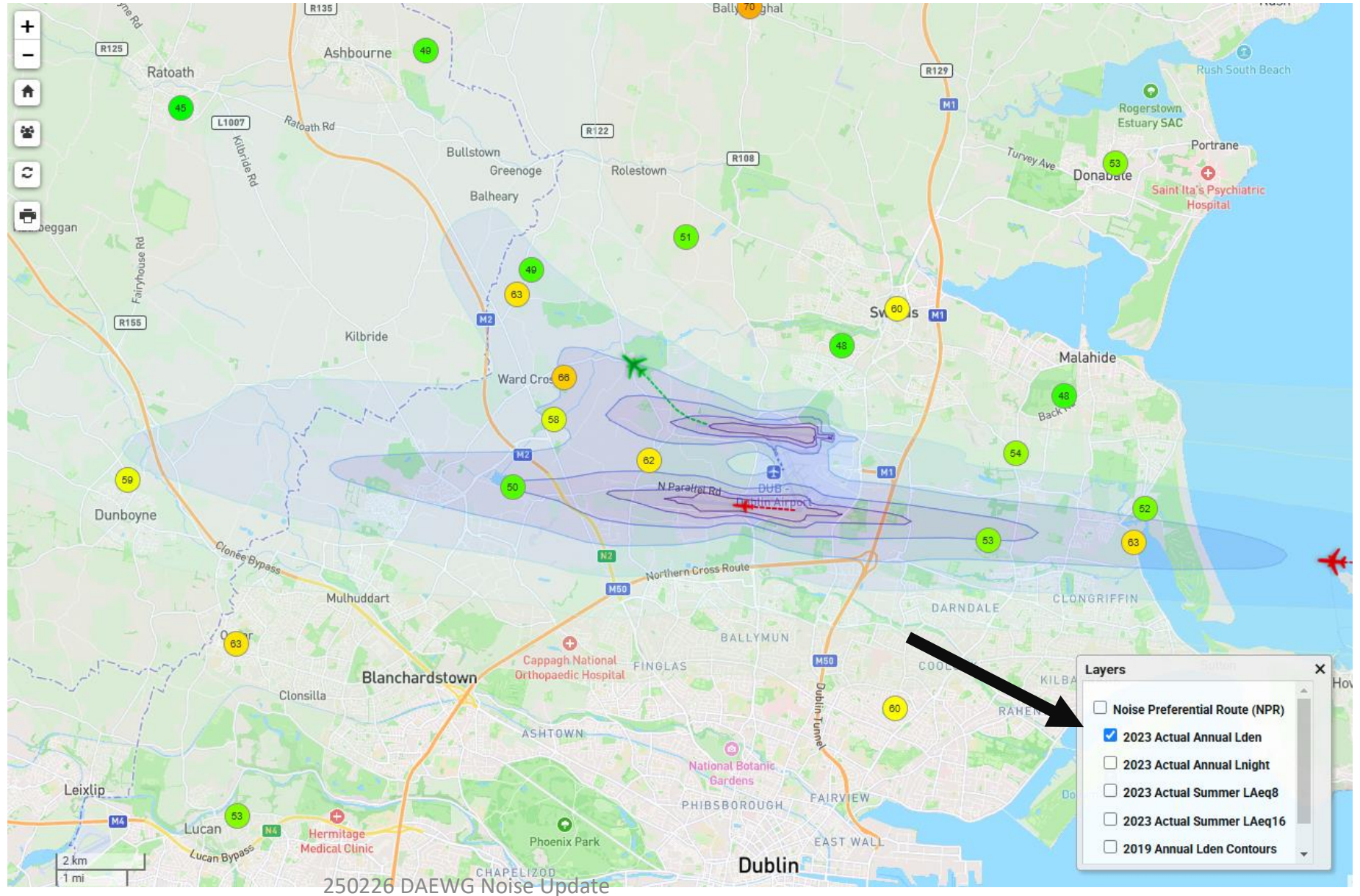
The altitude profile displays the altitude of aircraft, helping users track and monitor aircraft height from ground.

Click an aircraft movement, then click altitude profile icon to display.



Noise Contours

The noise contours for 2019 and 2023 are now available on WebTrak.



Jan 2025 – Average Movements by hour of day

Night Hours	
Hour of day	Aircraft Movements (Including Helicopters)*
00:00	210
01:00	70
02:00	50
03:00	40
04:00	190
05:00	230
06:00	820
23:00	430
Total	2,040

Draft

Day Hours	
Hour of day	Aircraft Movements (Including Helicopters)*
07:00	1,070
08:00	800
09:00	910
10:00	960
11:00	1,110
12:00	950
13:00	1,120
14:00	1,020
15:00	960
16:00	900
17:00	980
18:00	930
19:00	680
20:00	670
21:00	750
22:00	500
Total	14,310

250226 DAEWG Noise Update

* Rounded to nearest 10

Jan 2025 - Noise Complaints – by Hour of Operations

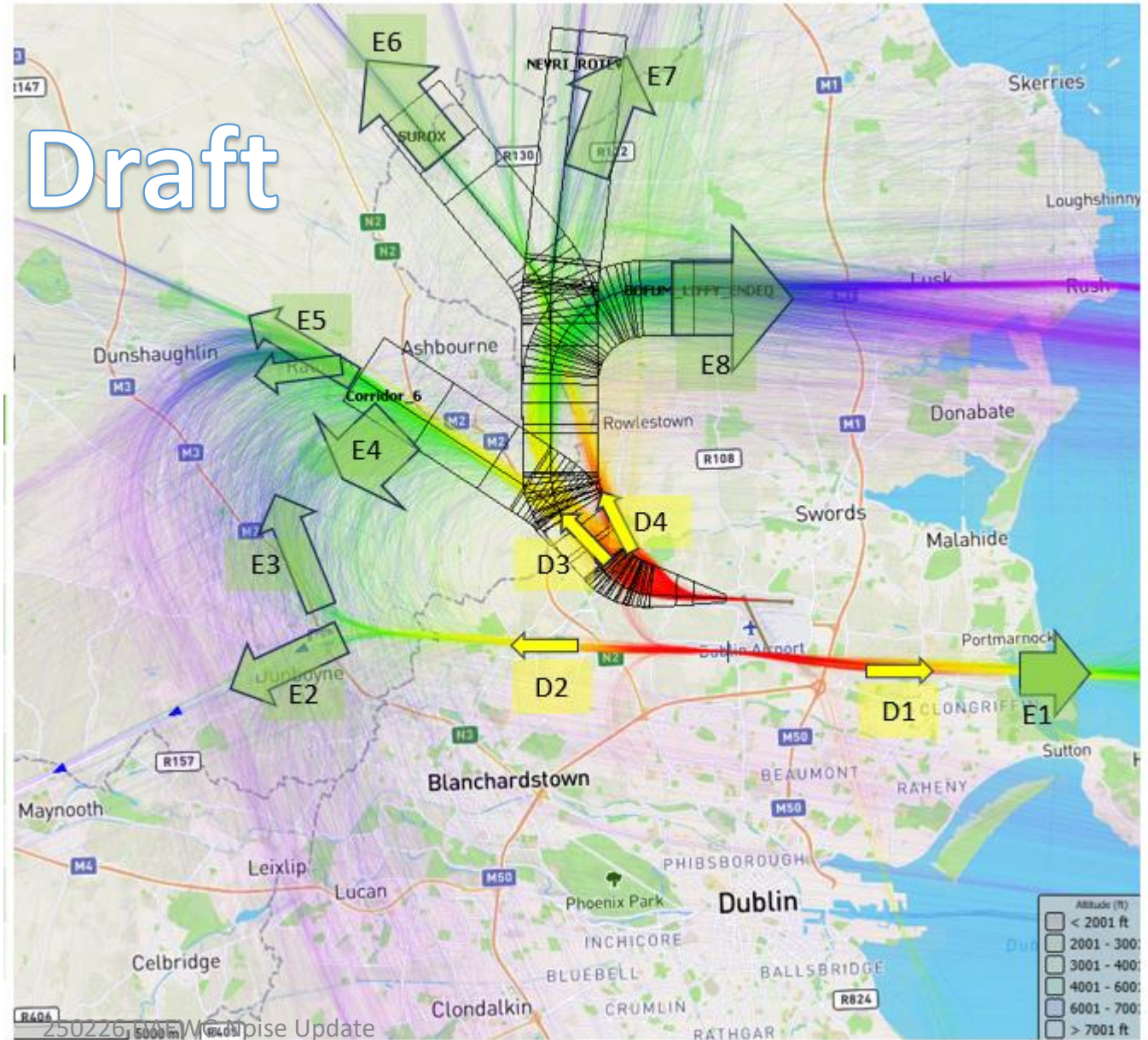
Night		Day			
Hour of operation	Number of complaints	Hour of operation	Number of complaints		Number of complaints
00:00	65	07:00	509	General aircraft movement	29
01:00	11	08:00	219		
02:00	18	09:00	215		
03:00	15	10:00	130		
04:00	35	11:00	218		
05:00	78	12:00	160		
06:00	450	13:00	146		
23:00	137	14:00	228		
Total	809	15:00	155		
		16:00	174		
		17:00	222		
		18:00	268		
		19:00	254		
		20:00	218		
		21:00	254		
		22:00	129		
		Total	3,499		

Draft

2024 Departure Swathe Data – Runway and Track Use

~1000-3000 ft	Swathe	Dep/day	Percentage of Departures
D1	10R	81	24%
D2	28L	34	10%
D3	28R Jet	195	58%
D4	28R Turbo-prop	24	7%

~4000-6000 ft	Swathe	Dep/day	Percentage of Departures
E1	10R (easterly dep)	81	24%
E2	28L, S- & W-bound (left turn)	15	4%
E3	28L, N- & E-bound (right turn)	18	5%
E4	28R, S- & W-bound, left turn from NPR	27	8%
E5	28R, S- & W-bound, exit end of NPR	51	16%
E6	28R, NW-bound	6	2%
E7	28R, N-bound	24	7%
E8	28R, E-bound	109	33%



2024 Quarterly Reports Q1/Q2/Q3 Amendments

Topic	Details
Issues	<ul style="list-style-type: none"> Noise Monitor downtime time has been incorrectly calculated from NMT data extracted from ANOMS system, and NMT 20 was off-line for most of Q3 due to equipment failure and delays in repair
Impacts	<ul style="list-style-type: none"> Downtime was incorrectly reported in Q1/Q2/Q3 report NMT 20 noise calculations in Q3 were averaged over the wrong period (as if zero noise during outage period)
Resolutions	<ul style="list-style-type: none"> Downtime calculation has been corrected. Minor changes to reported downtime in Q1/Q2/Q3 reports which are being re-issued The Lden, Lnight and Leq16 for NMT 20 in the re-issued Q3 report will be amended, including notes on the extended downtime.
	<ul style="list-style-type: none"> Screenshots of extracts of Q Report revisions

NMT – Operational Downtime

NMT	Location	January	
		Downtime (mins)	# Aircraft Events
1	Bay Lane	8	1458
2	St. Doolaghs	6	8084
3	Bishopswood	13	4610
4	Feltrim	5	1005
5	Balcultry	246*	31
6	St.Davids	5	41
7	Swords	0	17
8	Malahide	0	102

NMT – Operational Downtime and Number of Correlated Aircraft Noise Events

NMT	Location	July		August		September		Q3 2024
		Downtime (mins)	# Aircraft Events	Downtime (mins)	# Aircraft Events	Downtime (mins)	# Aircraft Events	# Aircraft Events
1	Bay Lane	44	1766	2	1364	6	1573	4703
2	St. Doolaghs	47	11488	335*	11354	525	10600	33442
3	Bishopswood	54	6037	12	5439	52	6931	18407
4	Feltrim	171*	1330	57	1322	5	1351	4003
5	Balcultry	145*	28	23	46	247	31	105
6	St.Davids	55	90	1080*	55	2	111	256
7	Swords	25	45	36	53	47	33	131
8	Malahide	17	25	63	225	16	35	285
10	St.Margarets NS	17*	7132	17*	8186	17	5325	20643
20	Coast Rd (OP)	54	10762	[25 days]*	2144 [6d]*	[30 days]*	.*	12906
26	Kilcoskan NS	60	7058	0	8722	1	5312	21092
27	Summerhill	17	31	276	30	47	34	95

- NMT 20 was not functioning for much of August and all of September due to a technical problem. There are only 37 days of noise data at that monitor during the quarter.



Members Update

26 February 2025



Next Meeting

5pm on Wednesday, 18 June 2025
