

## Air Quality around Arnolds Field in October 2023

Air quality data for October 2023 from nodes close to the Arnold's field site as well as sites located further away from Arnold's Field are shown below.

### Fire incidents

The London Fire Brigade (LFB) reported no fire incidents in the month of October.

The data shows levels of particulates (PM<sub>2.5</sub>) and Nitrogen Dioxide (NO<sub>2</sub>) in residential areas adjacent to Arnold's Field.

### In summary, levels of these two pollutants:

- Table 1 shows that NO<sub>2</sub> levels were consistently 'low' when compared to the short term thresholds (hourly mean) set in the UK Government's 'Daily Air Quality Index' (DAQI).
- Table 2 shows that PM<sub>2.5</sub> levels were consistently 'low' when compared to the short-term thresholds (daily mean) set in the UK Government's 'Daily Air Quality Index' (DAQI).
- Table 3 shows that PM<sub>2.5</sub> hourly levels were at times elevated however, this mirrored the trend seen in areas further away from Arnold's field.

### Further information about air quality

You can see further information about UK legal limits for [air pollution and guidance from Breathe London here](#).

You can find data from all the nodes around Arnolds Field are shared in more or less real time on the [Breathe London website](#).

**Table 1. October 2023 – Nitrogen Dioxide Level (Index) by Node Site (Hourly)**

Approx. distance from Arnolds Field	Site Name	01-Oct	02-Oct	03-Oct	04-Oct	05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	
0.4km S	Ingrebourne Golf																																
0.7km NW	Acer Avenue																																
0.7km NW	Spring Farm Park																																
0.9 km NW	King Edwards Ave																																
1.1km W	Orchard Avenue																																
1.1km W	Harris Academy																																
1.2 km NW	Rainham (reference)																																
3.2 km N	Scotts Primary																																
3.6 km NW	Fontayne Avenue																																
6.0km SW	Slade Green																																
6.4 km W	Goresbrook School																																
7.3 km NW	Cotleigh Road																																
10.5km N	Bedfords Park																																

Based on the hourly mean concentration

Table 2. October 2023 - PM2.5 Particles Level (Index) by Node Site (Daily)

	Site Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0.4km S	Ingrebourne Links Golf & Country Club	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.7km NW	Acer Avenue, Rainham	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.7km NW	Spring Farm Park	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.9 km NW	King Edwards Ave	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
1.1km W	Orchard Avenue	1	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.1km W	Harris Academy, Rainham	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.2 km NW	Rainham (reference)	1	2	1	1	1	1	1	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.2 km N	Scotts Primary	1	2	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.6 km NW	Fontayne Avenue	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0km SW	Slade Green	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.4 km W	Goresbrook School	1	2	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
7.3 km NW	Cotleigh Road	1	2	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.5km N	Bedfords Park	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Based on the daily mean concentration for historical data, latest 24 hour running mean of current day

**Table 3. October 2023 PM<sub>2.5</sub> Particles Level (Index) by Node Site (Hourly)**

Legend		PM2.5 - 1 hour mean (mg/m3)																												
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300

Approx. distance from Arnolds Field	Site Name	01-Oct	02-Oct	03-Oct	04-Oct	05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	
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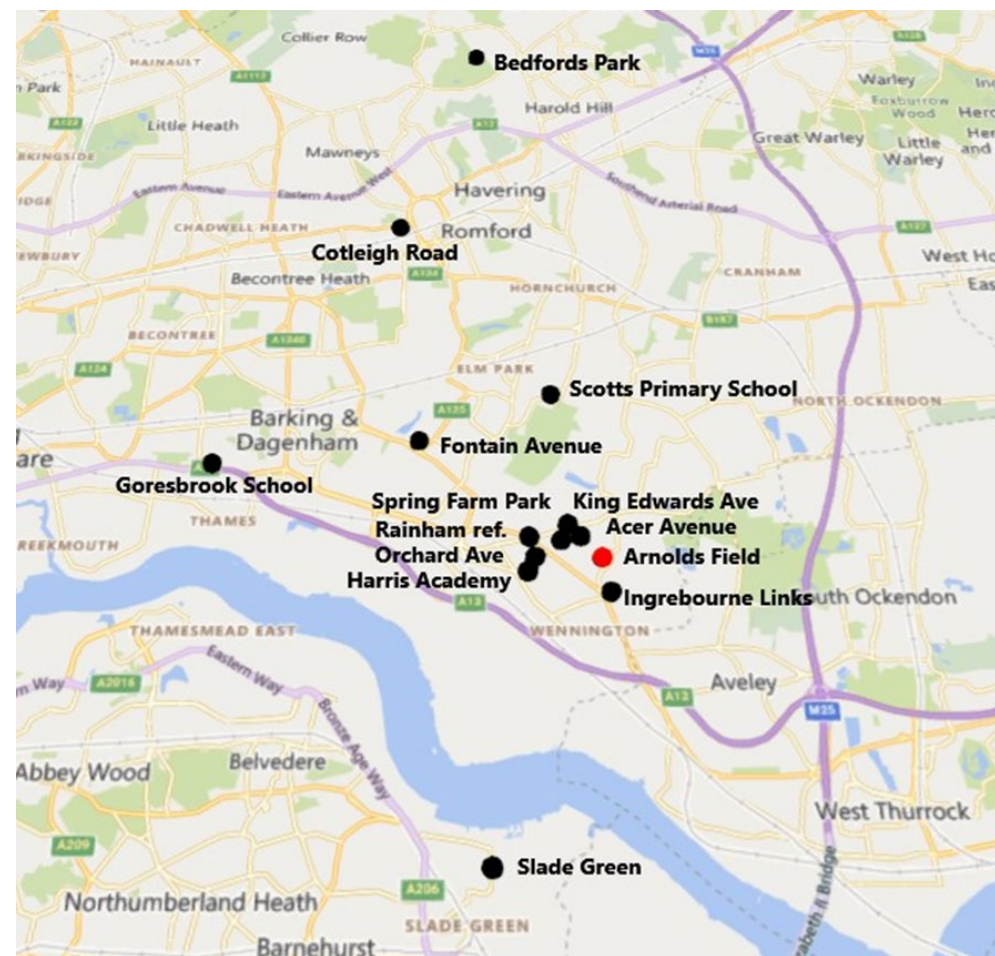
The reference stations and Breathe London Nodes on the map (Figure 1) are coloured in Table 1 and Table 2 according to the government's 'Daily Air Quality Index' (DAQI) shown below (Figure 2).

You can find the DAQI on the [Defra website](https://www.gov.uk/government/organisations/defra)

Figure 2. The Daily Air Quality Index (DAQI)

Band	Index	PM2.5 (24 hour mean mg/m3)	Nitrogen dioxide (1 hour mean mg/m3)
Low	1	0-11	0-66
	2	12-23	67-133
	3	24-35	134-200
Moderate	4	36-41	201-267
	5	42-46	268-334
	6	47-53	335-400
High	7	54-58	401-467
	8	59-64	468-534
	9	65-70	535-600
Very High	10	>71	>601

Figure 1. Map of air quality monitoring stations (Breathe London nodes and reference sites).



- Arnolds Field (Launders Lane)
- Breathe London air quality monitors