

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2004

**Note:**  
Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$   
Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year  
See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	41.5	57.6	11.3	40.9	35.0	34.8	40.3	37.5	50.9	41.7	48.4	38.8	39.9	37.9
St Michaels Lane	10.7	19.6	27.6	9.2	7.7	7.6	6.9	7.4		9.4	15.1	16.0	12.5	11.9

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2005

**Note:**  
 Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$   
 Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year  
 See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	30.41	55.1	43.97	39.82	46.06	60.78	47.83	40.72	40.9	52.06		38.17	<b>45.07</b>	
St Michaels Lane	11.97	18.99	15.31	12.32	8.82	8.84	9.18	8.52	9.52	11.12	15.7	19.14	<b>12.45</b>	
West Street (718)				25.29	28.2	30.24	32.43	23.98	22.26	23.26	30.51	34.78	<b>27.88</b>	

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2006

**Note:**  
 Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$   
 Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year  
 See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
EastRoad (717)	36.9	35.4	30.9	41.8	51.0	67.5	59.1	53.2	57.9	47.3	46.9	46.9	47.9	
St Michaels Lane	19.1	16.3	10.3	8.6	9.7	10.2	9.3	7.2	10.1	8.2	10.1		9.9	
West Street (718)	29.3	30.9	24.7	28.2	24.5	31.6	30.8	28.0	26.2	22.4	28.6	30.2	27.9	

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2007

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	41.0	51.5	22.6	64.6	60.9	63.8	62.0	72.6	63.1	33.8	68.5	58.0	<b>55.2</b>	<b>51.3</b>
West Street (718)	26.0	21.2	51.4	37.1	23.0	38.9	27.3	29.5	34.3	68.8	48.0	30.5	36.3	33.8
South Street (719)	27.1	30.2	31.6	32.7	31.7	31.3	29.6	33.1	33.2	42.0	42.4	36.2	33.4	31.1
East Road (730)	33.8	36.7	33.3	48.2	34.7	46.2	48.0	49.8	45.6	45.5	46.7	32.6	<b>41.8</b>	38.8

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2008

**Note:**  
 Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$   
 Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year  
 See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	57.7	70.3	50.8	63.4	79.2	68.9	58.4	62.8	62.3	31.7	47.5	58.1	59.3	55.1
West Steet (718)	26.9	41.3	22.6	30.6	41.5	26.1	23.9	20.6	31.7	30.7	32.2	40.7	30.7	28.6
South Street (719)	34.7	34.9	25.8	32.2	28.9	34.8	28.5	33.9	29.9	29.7	missing	35.5	31.7	29.5
East Road (730)	39.7	42.2	33.5	43.7	55.1	51.1	53.3	54.3	17.9	47.7	36.1	42.1	43.0	40.0

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2009

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road 717	56.3	67.1	45.0	63.5	70.5	47.0	55.2	missing	missing	64.9	42.8	53.6	<b>56.92</b>	
West St Bridport718	37.3	42.0	29.8	31.6	28.4	21.0	19.0	20.6	31.4	missing	missing	missing	29.01	28.71
South St Bridport719	31.4	38.7	33.1	34.5	32.2	20.2	27.7	22.1	28.8	34.6	31.1	missing	30.39	30.08
East Road 2Bridport730	45.3	1.1	80.5	41.8	46.9	20.3	48.9	46.7	42.2	44.2	38.1	missing	41.45	41.03

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2010

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40 \mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Local Bias adjusted Annual Average
Bridport East Road (717)	45.11	missing	62.31	65.91	69.66	68.46	60.74	64.6	53.69	49.22	40.26	35.36	57.02	55.38
Bridport East Road (730)	24.63	37.44	missing	41.02	43.54	43.74	48.81	49.82	60.18	64.58	57.33	58.42	50.49	47.65
Bridport East Road (733)	missing	29.7	23.54	23.14	27.86	25.86	23.82	27.4	28.19	28.13	28	28.3	26.72	26.45
Bridport East Road(734)	missing	31.55	33.29	18.96	35.45	30.66	24.05	missing	36.26	39.44	missing	35.21	31.65	31.33

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2011

**Note:**

Results are given in microgrammes per metre cubed of air ( $\mu\text{g}/\text{m}^3$ ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	40.58	48.16	42.46	45.11	37.43	51.76	51.44	54.12	54.83	48.75	47.56	34.16	<b>46.36</b>	<b>43.11</b>
East Road (730)	58.39	56.69	64.17	72.48	56.32	64.86	63.25	77.97	66.5	<i>missing</i>	61.16	37.82	<b>61.78</b>	<b>57.45</b>
East Road (731)				41.85	31.06	43.57	39.73	46.51	39.28	35.54	31.82	28.5	37.54	34.91
Askers Mead (732)				34.15	24.72	41.73	38.02	<i>missing</i>	37.99	30.09	38.74	27.57	34.13	31.74
East Road (734)	34.9	40.05	19.93	37.22	20.81	34.81	27.46	30.5	30.37	<i>missing</i>	<i>missing</i>	<i>missing</i>	30.67	28.52



## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2012

**Note:**

Results are given in microgrammes per metre cubed of air ( $\mu\text{g}/\text{m}^3$ ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	41.4	49.7	47.2	35.0	33.4	43.5	missing	50.8	55.9	48.6	36.6	34.3	43.3	43.7
East Road (730)	53.2	54.7	71.1	56.6	45.2	52.8	56.7	69.6	missing	64.1	63.1	29.3	56.0	56.6
East Road (731)	37.3	45.8	43.6	34.3	28.4	26.7	29.7	34.3	38.0	33.4	34.3	32.5	34.9	35.2
Askers Mead (732)	36.4	37.4	36.5	31.3	20.0	31.2	29.3	36.4	35.4	29.4	17.8	27.8	30.8	31.1
East Road (734)	16.8	42.1	42.7	34.9	26.1	missing	27.1	33.8	37.6	23.8	37.4	missing	32.2	32.5

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2013

**Note:**

Results are given in microgrammes per metre cubed of air ( $\mu\text{g}/\text{m}^3$ ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	38.7	42.6	41.0	31.3	30.9	42.4	60.9	57.8	43.7	45.6	40.2	37.3	42.7	43.1
East Road (730)	48.0	70.3	58.9	52.1	51.9	68.8	88.0	82.7	72.7	58.2	71.4	44.0	63.9	64.6
East Road (731)	30.3	37.0	34.0	24.8	29.2	30.8	38.0	33.0	35.6	32.1	35.9	31.5	32.7	33.0
Askers Mead (732)	24.7	33.0	39.8	27.0	27.7	35.5	44.3	41.2	39.8	34.7	39.4	29.1	34.7	35.0
East Road (734)	32.3	33.7		29.0	27.4	29.7	48.7	37.1	35.6	30.4	39.1	32.4	34.1	34.5

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2014

**Note:**

Results are given in microgrammes per metre cubed of air (  $\mu\text{g}/\text{m}^3$  ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	39.6	33.0	36.4	42.0	48.9	56.9	44.2	47.5	49.5	39.5	36.0	37.1	42.5	41.7
East Road (730)	52.3	49.8	52.9	72.7	65.0	71.0			78.9	50.5	53.1	51.3	59.7	58.5
East Road (731)	31.6	34.7	29.9	23.0	32.4	34.9	37.0	36.1	42.4	32.6	33.6	29.8	33.2	32.5
Askers Mead (732)	42.1	31.5	32.8	45.5	37.9	41.4	44.1	44.5	43.1	32.5	35.0	32.9	38.6	37.8
East Road (734)	33.5	31.8	31.3	38.5	31.0	35.1	32.9			29.1	35.7	29.4	32.8	32.2

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2015

**Note:**

Results are given in microgrammes per metre cubed of air (  $\mu\text{g}/\text{m}^3$  ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	42.4	39.0	35.6	41.7	49.1	45.8	48.3	56.7	53.5	46.0		31.4	44.5	42.7
East Road (730)	47.9	47.5	45.7	54.3	56.6	52.5	61.3	72.4	75.1	65.1	44.7	40.0	55.2	53.0
East Road (731)	34.9	36.4	33.7	32.7	31.1	34.0	38.8	38.0	38.2	34.5	34.1	28.5	34.6	33.2
Askers Mead (732)	36.0	36.8	34.2	39.8	37.2	39.2	38.4	40.3	40.5	39.8	31.1	25.4	36.6	35.1
East Road (734)	37.7	34.4	36.0	37.9	30.3	30.7	32.0	36.7	38.8	34.1	32.0	25.7	33.9	32.5

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2016

Note:

Results are given in microgrammes per metre cubed of air (  $\mu\text{g}/\text{m}^3$  ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)		46.5	40.7	41.0	44.6	48.9	52.1	54.3	48.3	49.2	45.2	47.5	47.1	47.6
East Road (730)	41.9	43.5	52.5	44.8	51.6	60.7	49.6	57.2	46.6	56.0	53.1	54.1	51.0	51.5
East Road (731)	32.1	25.7	26.1	29.1	33.2	36.3	30.2	31.0	31.9	36.1	30.5	32.5	31.2	31.5
Askers Mead (732)	34.8	28.0	30.30	33.2	32.2	37.6	32.1	33.5	36.6	35.6	33.8	36.7	33.7	34.0
East Road (734)	28.2	28.9	31.90	28.5	34.9	37.6	30.2	33.0	28.6	30.4	35.1	36.5	32.0	32.3

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2017

**Note:**

Results are given in microgrammes per metre cubed of air (  $\mu\text{g}/\text{m}^3$  ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	43.6	44.7	42.6	45.7	53.3	49.7	42.4	53.9	22.6	62.0	47.6	42.1		
East Road (730)	57.9	49.0		53.2	63.4	55.0	51.5	55.5	28.1	42.5	43.9	41.1		
East Road (731)	33.2	28.4	29.9	28.8	33.5	36.6	28.4		29.1	31.1	28.3	25.5		
Askers Mead (732)	39.5	31.4	32.3	42.6	31.5	37.0	30.4	32.9	26.1	34.5	37.4	30.3		
East Road (734)	33.9	26.1	32.7	24.0	25.5	33.0	25.6	34.9	25.5	31.6	32.1	29.2		

West Dorset District Council identified anomalies with the results from September 2017's diffusion tube monitoring. The Laboratory results suggested that there had been occasions where tubes had been transposed.

The laboratory were contacted and the matter investigated by both the analysts and the council. From this, it is in the opinion of WDDC that there has been an error with deployment or labelling of the tubes prior to deployment and the council does not have confidence in using the September 2017 data for the 2017 annual mean calculations for nitrogen dioxide. The annual mean for each location will therefore be annualised as per Defra's Guidance within Local Air Quality Management Technical Guidance (TG16).

Because of this significant error, the Quality Assurance and Quality Control Procedures have been reviewed (last undertaken in 2014). A new draft procedure (in line with Defra Guidance) is being trialled for the deployment of the diffusion tubes. Once trialled, this will then be put into place and recorded within the relevant Annual Status Report (QA/QC Section) for further transparency.

A transcript of the correspondence between the WDDC Officer and the Laboratory will be provided to Defra in the 2018 ASR, which will be submitted to Defra in 2018.

## Detailed Monitoring Results for Bridport from our Nitrogen Dioxide Diffusion Tube Survey - 2018

Note:

Results are given in microgrammes per metre cubed of air (  $\mu\text{g}/\text{m}^3$  ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
East Road (717)	46.3	42.3	40.2	46.1	54.6	57.2	60.4	57.4	47.9	46.2	37.7	39.4		
East Road (730)	43.5	46.9	39.4	52.1	35.5	49.3	59.5	54.0	35.3	53.2	35.9	41.9		
East Road (731)	25.9	28.7	29.14	29.4	35.1	29.8	33.5	30.6	30.8	29.2	26.1	28.3		
Askers Mead (732)	30.5	34.1	32.17	34.2	42.3	37.0	39.1	34.0	33.6	35.8	29.8	31.2		
East Road (734)	33.2	31.5	29.08	24.1	38.0	34.6	39.5	32.8	34.7	34.3	30.4	30.5		





## Summary of Bridport's Monitoring Results from our Nitrogen Dioxide Survey

**Note:**

Results are given in microgrammes per metre cubed ( $\mu\text{g}/\text{m}^3$ ) and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$ .

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

Site	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
East Road (717)	37.9	49.6	48.4	51.3	55.1	57.1	55.4	57.5	43.7	43.1	41.7	42.7	47.6
St Michaels Lane	11.9	13.7	9.9										
West Street (718)		30.7	28.2	33.8		28.7							
South Street (719)				31.1		30.1							
East Road (730)				38.8	40	41	47.7	57.45	56.6	64.6	58.5	53.0	51.5
East Road (731)								34.91	35.2	33	32.5	33.2	31.5
Askers Mead (732)								31.74	31.1	35	37.8	35.1	34.0
East Road (733)							26.5						
Bridport East Road(734)							31.3	28.52	32.5	34.5	32.2	32.5	32.3

# Trend of annual mean nitrogen dioxide results in Bridport

