

SILVERTOWN TUNNEL

Environmental Statement Appendix 6.C (6.3.6.3)

Local Authority Automatic Monitoring Data 2012-2015

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Table 6C-1 Annual mean NO₂ (µg/m³) concentrations recorded by roadside continuous monitoring sites from local authorities within the study area 2012-2015

Local Authority	Monitoring Station	x	y	Annual Average NO ₂ Concentration 2012 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2013 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2014 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2015 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)
London Borough of Barking and Dagenham	Rush Green (Suburban)	551053	187233	27 ^a	0 ^a	74 ^c	28 ^a	0 ^a	98 ^a	25 ^c	1 ^c	88 ^c	21 ^{*c}	0 ^{*c}	96 ^{*c}
	Scratton Farm (Suburban)	548043	183320	39 ^a	0 ^a	49 ^c	33 ^a	0 ^a	43 ^a	30 ^c	0 ^c	94 ^c	29 ^{*c}	0 ^{*c}	96 ^{*c}
Dartford Borough Council	Bean Interchange RB (Roadside)	558622	172752	54 ^a	7 ^a	98 ^a	43 ^a	0 ^a	99 ^a	51 ^d	3 ^d	39 ^d	61 ^{*d}	24 ^{*d}	93 ^{*d}
	St Clements RB (Roadside)	558525	174709	57 ^a	28 ^a	99 ^a	53 ^a	21 ^a	99 ^a	61 ^d	14 ^d	60 ^d	50 ^{*d}	8 ^{*d}	98 ^{*d}
	Town Centre RB (Roadside)	554117	173852	42 ^a	0 ^a	96 ^a	49 ^a	16 ^a	85 ^a	44 ^d	0 ^d	55 ^d	38 ^{*d}	0 ^{*d}	91 ^{*d}
London Borough of Hackney	Hackney 6 (Old Street) (Roadside)	532945	182570	63 ^a	0 ^a	100 ^a	64 ^a	1 ^a	97 ^a	66 ^{*a}	2 ^{*a}	96 ^{*a}	58 ^{*c}	0 ^{*c}	99 ^{*c}
London Borough of	Cam Road (Roadside)	538661	183969	43 ^b	0 ^b	95 ^b	40 ^{*b}	1 ^{*b}	92 ^{*b}	39 ^b	1 ^b	97 ^b	37 ^{*b}	0 ^{*b}	99 ^{*b}

Local Authority	Monitoring Station	x	y	Annual Average NO ₂ Concentration 2012 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2013 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2014 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2015 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)
Newham	Wren Close (Background)	539889	181469	38 ^b	0 ^b	98 ^b	32* ^b	0* ^b	84* ^b	34 ^b	0 ^b	96 ^b	31* ^b	0* ^b	96* ^b
Royal Borough of Greenwich	Blackheath Hill (GR7) (Roadside)	538141	176710	48 ^a	0 ^a	100 ^c	48 ^a	1 ^a	86 ^a	44 ^a	0 ^a	97 ^a	39* ^c	0* ^c	93* ^c
	Burrage Grove (GR10/GN0) (Roadside)	544084	178881	45 ^a	1 ^a	97 ^c	45 ^a	0 ^a	100 ^a	38 ^a	0 ^a	99 ^a	35* ^c	0* ^c	99* ^c
	Eltham (GR4) (Background)	543978	174655	22 ^a	0 ^a	95 ^c	21 ^a	0 ^a	99 ^a	20 ^a	0 ^a	65 ^a	20* ^c	0* ^c	99* ^c
	Falconwood (GB6) (Roadside)	544997	175098	47 ^a	21 ^a	100 ^c	51 ^a	11 ^a	94 ^a	45 ^a	10 ^a	92 ^a	43* ^c	4* ^c	100* ^c
	Fiveways Sidcup Road (GN4) (Roadside)	543582	172653	52 ^a	1 ^a	88 ^c	58 ^a	7 ^a	95 ^a	53 ^a	2 ^a	97 ^a	44* ^c	1* ^c	100* ^c
	Millennium Village (GR12/GN2)	540169	178999	37 ^a	2 ^a	93 ^c	38 ^a	2 ^a	75 ^a	36 ^a	0 ^a	80 ^a	28* ^c	0* ^c	60* ^c

Local Authority	Monitoring Station	x	y	Annual Average NO ₂ Concentration 2012 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2013 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2014 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2015 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)
	(Roadside)														
	Plumstead High St (GR13/GN3) (Roadside)	545560	178526	39 ^a	0 ^a	98 ^c	37 ^a	0 ^a	98 ^a	37 ^a	0 ^a	92 ^a	34* ^c	0* ^c	72* ^c
	Trafalgar Road (GR5) (Roadside)	538960	177954	44 ^a	0 ^a	94 ^c	41 ^a	0 ^a	99 ^a	38 ^a	5 ^a	98 ^a	36* ^c	0* ^c	90* ^c
	Westhorne Avenue (GR9) (Roadside)	541885	175016	44 ^a	0 ^a	100 ^c	46 ^a	4 ^a	100 ^a	43 ^a	1 ^a	96 ^a	39* ^c	0* ^c	99* ^c
	Woolwich Flyover (GR8) (Roadside)	540200	178367	71 ^a	27 ^a	92 ^c	64 ^a	8 ^a	100 ^a	75 ^a	26 ^a	98 ^a	66* ^c	6* ^c	96* ^c
London Borough of Tower Hamlets	Blackwall (TH4) (Roadside)	538290	181452	61 ^a	0 ^a	94 ^c	58 ^a	0 ^a	96 ^a	58 ^a	1 ^a	99 ^a	57* ^c	0* ^c	97* ^c
	Mile End Road (TH2)	535927	182221	60 ^a	2 ^a	99 ^c	57 ^a	0 ^a	99 ^a	62 ^a	1 ^a	100 ^a	51* ^c	0* ^c	77* ^c

Local Authority	Monitoring Station	x	y	Annual Average NO ₂ Concentration 2012 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2013 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2014 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2015 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)
	(Roadside)														
	Poplar (TH1) (Background)	537509	180867	33 ^a	0 ^a	99 ^c	33 ^a	0 ^a	50 ^a	-	-	-	-	-	-
	Victoria Park (TH5) (Background)	536487	184238	33 ^a	0 ^a	41 ^c	33 ^a	0 ^a	97 ^a	44 ^a	0 ^a	38 ^a	29 ^{*c}	1 ^{*c}	63 ^{*c}
Thurrock Council	Calcutta Road Tilbury (TK4) (Roadside)	563900	176282	39 ^c	0 ^c	99 ^c	35 ^c	0 ^c	98 ^c	33 ^c	0 ^c	91 ^c	30 ^{*c}	0 ^{*c}	89 ^{*c}
	London Road Purfleet (TK8 formerly TK2) (Roadside)	556698	177937	63 ^c	7 ^c	90 ^c	63 ^c	4 ^c	96 ^c	62 ^c	5 ^c	99 ^c	55 ^{*c}	0 ^{*c}	99 ^{*c}
	Stanford-Le-Hope (TK3) (Roadside)	569356	182736	33 ^c	0 ^c	93 ^c	28 ^c	0 ^c	96 ^c	26 ^c	0 ^c	99 ^c	23 ^{*c}	0 ^{*c}	99 ^{*c}
	TH1 - London Road Grays (TK1) (Background)	560900	177700	28 ^c	0 ^c	98 ^c	27 ^c	0 ^c	96 ^c	27 ^c	0 ^c	98 ^c	25 ^{*c}	0 ^{*c}	93 ^{*c}

Local Authority	Monitoring Station	x	y	Annual Average NO ₂ Concentration 2012 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2013 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2014 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)	Annual Average NO ₂ Concentration 2015 (µg/m ³)	Exceedences of the Hourly Mean (200µg/m ³)	Data Capture (%)
London Borough of Waltham Forest	WL1 Dawlish Road (Urban Background)	538380	186717	37 ^a	2 ^a	95 ^a	36 ^a	2 ^a	96 ^a	- ^b	1 ^b	73 ^b	- ^b	0 ^{*b}	75 ^{*b}
	WL4 Crooked Billet (Kerbside)	537468	191071	73^a	19 ^a	95 ^a	68^a	11 ^a	99 ^a	74^b	116 ^b	99 ^b	66^{*b}	37 ^{*b}	81 ^{*b}
	WL5 Ruckholt Close (Roadside)	537804	186025	24 ^a	0 ^a	96 ^a	28 ^a	0 ^a	96 ^a	36 ^b	7 ^b	96 ^b	31 ^{*b}	0 ^{*b}	96 ^{*b}

Values in bold exceed AQS objectives

Values in red have a data capture <75%

* indicates values have not been fully ratified

^a Data taken from local authority reports

^b Data taken from Air Quality England

^c Data taken from London Air

^d Data taken from Kent Air

Table 6C-2 Annual mean PM₁₀ (µg/m³) concentrations recorded by continuous monitoring sites from local authorities within the study area 2012-2015

Local Authority	Monitoring Station	x	y	Annual Average PM10 Concentration 2012 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2013 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2014 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2015 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)
London Borough of Barking and Dagenham	Scratton Farm	548043	183320	24 ^a	10 ^a	49 ^c	18 ^a	0 ^a	39 ^a	21 ^c	10 ^c	94 ^c	20 ^{*c}	6 ^{*c}	90 ^{*c}
Dartford Borough Council	Bean Interchange RD	558622	172752	21 ^a	9 ^a	97 ^a	21 ^a	5 ^a	81 ^a	29 ^d	23 ^d	53 ^d	31 ^{*d}	22 ^{*d}	91 ^{*d}
	St Clements RD	558525	174709	22 ^a	8 ^a	97 ^a	24 ^a	13 ^a	98 ^a	32 ^d	20 ^d	63 ^d	24 ^{*d}	8 ^{*d}	95 ^{*d}
	Town Centre RD	554117	173852	24 ^a	16 ^a	95 ^a	28 ^a	22 ^a	95 ^a	31 ^d	20 ^d	65 ^d	32 ^{*d}	31 ^{*d}	87 ^{*d}
London Borough of Hackney	Hackney 6 (HK6) - Old Street	532945	182570	28 ^a	16 ^a	93 ^a	28 ^a	19 ^a	99 ^a	25 ^{*a}	10 ^{*a}	99 ^{*a}	23 ^{*c}	3 ^{*c}	92 ^{*c}
London Borough of	Cam Road	538661	183969	- ^b	11 ^b	74 ^b	31 ^{*b}	23 ^{*b}	97 ^{*b}	29 ^b	26 ^b	99 ^b	25 ^{*b}	12 ^{*b}	99 ^{*b}

Local Authority	Monitoring Station	x	y	Annual Average PM10 Concentration 2012 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2013 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2014 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2015 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)
Newham															
Royal Borough of Greenwich	Blackheath Hill (GR7)	538141	176710	28 ^a	26 ^a	99 ^c	30 ^a	29 ^a	91 ^a	27 ^a	18 ^a	94 ^a	25 ^{*c}	15 ^{*c}	83 ^{*c}
	Burrage Grove (GR10/GN0)	544084	178881	27 ^a	28 ^a	90 ^c	28 ^a	18 ^a	81 ^a	23 ^a	15 ^a	70 ^a	22 ^{*c}	3 ^{*c}	94 ^{*c}
	Eltham (GR4)	543978	174655	20 ^a	9 ^a	90 ^c	20 ^a	5 ^a	90 ^a	18 ^a	7 ^a	80 ^a	16 ^{*c}	3 ^{*c}	97 ^{*c}
	Falconwood (GB6)	544997	175098	26 ^a	27 ^a	96 ^c	30 ^a	28 ^a	65 ^a	25 ^a	13 ^a	51 ^a	20 ^{*c}	1 ^{*c}	48 ^{*c}
	Millennium Village (GR12/GN2)	540169	178999	23 ^a	20 ^a	94 ^c	26 ^a	20 ^a	77 ^a	26 ^a	16 ^a	69 ^a	17 ^{*c}	1 ^{*c}	55 ^{*c}
	Trafalgar Road (GR5)	538960	177954	23 ^a	16 ^a	98 ^c	23 ^a	8 ^a	100 ^a	20 ^a	5 ^a	97 ^a	19 ^{*c}	2 ^{*c}	88 ^{*c}
	Westhorne Avenue (GR9)	541879	175016	20 ^a	16 ^a	97 ^c	24 ^a	17 ^a	91 ^a	25 ^a	19 ^a	93 ^a	22 ^{*c}	10 ^{*c}	89 ^{*c}

Local Authority	Monitoring Station	x	y	Annual Average PM10 Concentration 2012 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2013 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2014 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2015 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)
	Plumstead High Street (GN3)	545560	178526	21 ^a	8 ^a	54 ^c	20 ^a	3 ^a	65 ^a	23 ^a	14 ^a	77 ^a	18 ^{*c}	3 ^{*c}	95 ^{*c}
	Fiveways Sidcup Rd A20 (GN4)	543582	172653	30 ^a	24 ^a	66 ^c	31 ^a	31 ^a	82 ^a	29 ^a	25 ^a	95 ^a	25 ^{*c}	7 ^{*c}	71 ^{*c}
	Woolwich Flyover (GR8)	540200	178367	33 ^a	33 ^a	95 ^c	32 ^a	26 ^a	99 ^a	29 ^a	17 ^a	81 ^a	29 ^{*c}	20 ^{*c}	92 ^{*c}
London Borough of Tower Hamlets	Blackwall (TH4)	538290	181452	26 ^a	24 ^a	95 ^c	28 ^a	24 ^a	92 ^a	29 ^a	16 ^a	63 ^a	22 ^{*c}	9 ^{*c}	82 ^{*c}
	Poplar (TH1)	537509	180867	22 ^a	14 ^a	99 ^c	23 ^a	14 ^a	50 ^a	-	-	-	-	-	-
	Victoria Park (TH5)	536487	184238	18 ^a	2 ^a	43 ^c	21 ^a	5 ^a	96 ^a	22 ^a	6 ^a	38 ^a	16 ^{*c}	2 ^{*c}	65 ^{*c}
Thurrock Council	London Road Purfleet	556698	177937	24 ^c	14 ^c	97 ^c	27 ^c	20 ^c	98 ^c	27 ^c	22 ^c	99 ^c	25 ^{*c}	10 ^{*c}	98 ^{*c}
	Stanford-Le-Hope	569356	182736	23 ^c	15 ^c	81 ^c	24 ^c	16 ^c	78 ^c	19 ^c	10 ^c	94 ^c	17 ^{*c}	2 ^{*c}	66 ^{*c}

Local Authority	Monitoring Station	x	y	Annual Average PM10 Concentration 2012 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2013 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2014 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)	Annual Average PM10 Concentration 2015 (µg/m ³)	Exceedences of the Daily Mean (50µg/m ³)	Data Capture (%)
	TH1 - Grays	560900	177700	18 ^c	10 ^c	98 ^c	19 ^c	4 ^c	95 ^c	19 ^c	10 ^c	96 ^c	17* ^c	2* ^c	82* ^c
London Borough of Waltham Forest	WL1 Dawlish Road	538380	186717	18 ^a	0 ^a	95 ^a	21 ^a	3 ^a	97 ^a	19 ^b	1 ^b	97 ^b	16* ^b	0* ^b	84* ^b
	WL4 Crooked Billet	537468	191071	32 ^a	21 ^a	99 ^a	31 ^a	22 ^a	97 ^a	40^b	59^b	97 ^b	30* ^b	15* ^b	77* ^b
	WL5 Ruckholt Close	537804	186025	19 ^a	13 ^a	99 ^a	21 ^a	8 ^a	95 ^a	20 ^b	8 ^b	96 ^b	18* ^b	3* ^b	81* ^b

Values in bold exceed AQS objectives, values in red have a data capture <75%, * indicates values have not been fully ratified

^a Data taken from local authority reports

^b Data taken from Air Quality England

^c Data taken from London Air

^d Data taken from Kent Air

Table 6C-3 Annual mean PM_{2.5} (µg/m³) concentrations recorded by continuous monitoring sites from local authorities within the study area 2012-2015

Local Authority	Monitoring Station	x	y	Annual Average PM _{2.5} Concentration 2012 (µg/m ³)	Data Capture (%)	Annual Average PM _{2.5} Concentration 2013 (µg/m ³)	Data Capture (%)	Annual Average PM _{2.5} Concentration 2014 (µg/m ³)	Data Capture (%)	Annual Average PM _{2.5} Concentration 2015 (µg/m ³)	Data Capture (%)
London Borough of Hackney	Hackney 6 (HK6) - Old Street	532945	182570	14 ^c	95 ^c	14 ^c	98 ^c	14 ^c	99 ^c	12* ^c	97* ^c
Royal Borough of Greenwich	Burrage Grove (GR10/GN0)	544084	178881	18 ^c	88 ^c	18 ^c	72 ^c	17 ^c	71 ^c	12 ^c	85 ^c
	Eltham (GR4)	543978	174655	13 ^c	92 ^c	15 ^c	65 ^c	12 ^c	84 ^c	11* ^c	75* ^c
	Millennium Village (GR12/GN2)	540169	178999	15 ^c	94 ^c	15 ^c	89 ^c	15 ^c	83 ^c	10* ^c	61* ^c
	Westhorne Avenue (GR9)	541879	175016	16 ^c	16 ^c	17 ^c	93 ^c	16 ^c	95 ^c	13* ^c	98* ^c
	Plumstead High Street (GN3)	545560	178526	19 ^c	43 ^c	15 ^c	88 ^c	16 ^c	90 ^c	15 ^c	98 ^c
	Woolwich Flyover (GR8)	540200	178367	15 ^c	98 ^c	15 ^c	96 ^c	15 ^c	95 ^c	12* ^c	88* ^c

Local Authority	Monitoring Station	x	y	Annual Average PM _{2.5} Concentration 2012 (µg/m ³)	Data Capture (%)	Annual Average PM _{2.5} Concentration 2013 (µg/m ³)	Data Capture (%)	Annual Average PM _{2.5} Concentration 2014 (µg/m ³)	Data Capture (%)	Annual Average PM _{2.5} Concentration 2015 (µg/m ³)	Data Capture (%)
London Borough of Tower Hamlets	Blackwall (TH4)	538290	181452	15 ^c	96 ^c	16 ^c	90 ^c	16 ^c	90 ^c	14 ^{*c}	95 ^{*c}
Thurrock Council	Stanford-Le-Hope	569356	182736	15 ^c	81 ^c	14 ^c	87 ^c	14 ^c	92 ^c	10 ^{*c}	95 ^{*c}

Values in bold exceed AQS objectives, values in red have a data capture <75%, * indicates values have not been fully ratified

^a Data taken from local authority reports

^b Data taken from Air Quality England

^c Data taken from London Air

^d Data taken from Kent Air

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