

June 2019

Air Quality and Dust Monitoring Monthly Report – June 2019

London Borough of Hillingdon



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Air Quality and Dust Monitoring Summary Report, June 2019 London Borough of Hillingdon

Monthly Summary

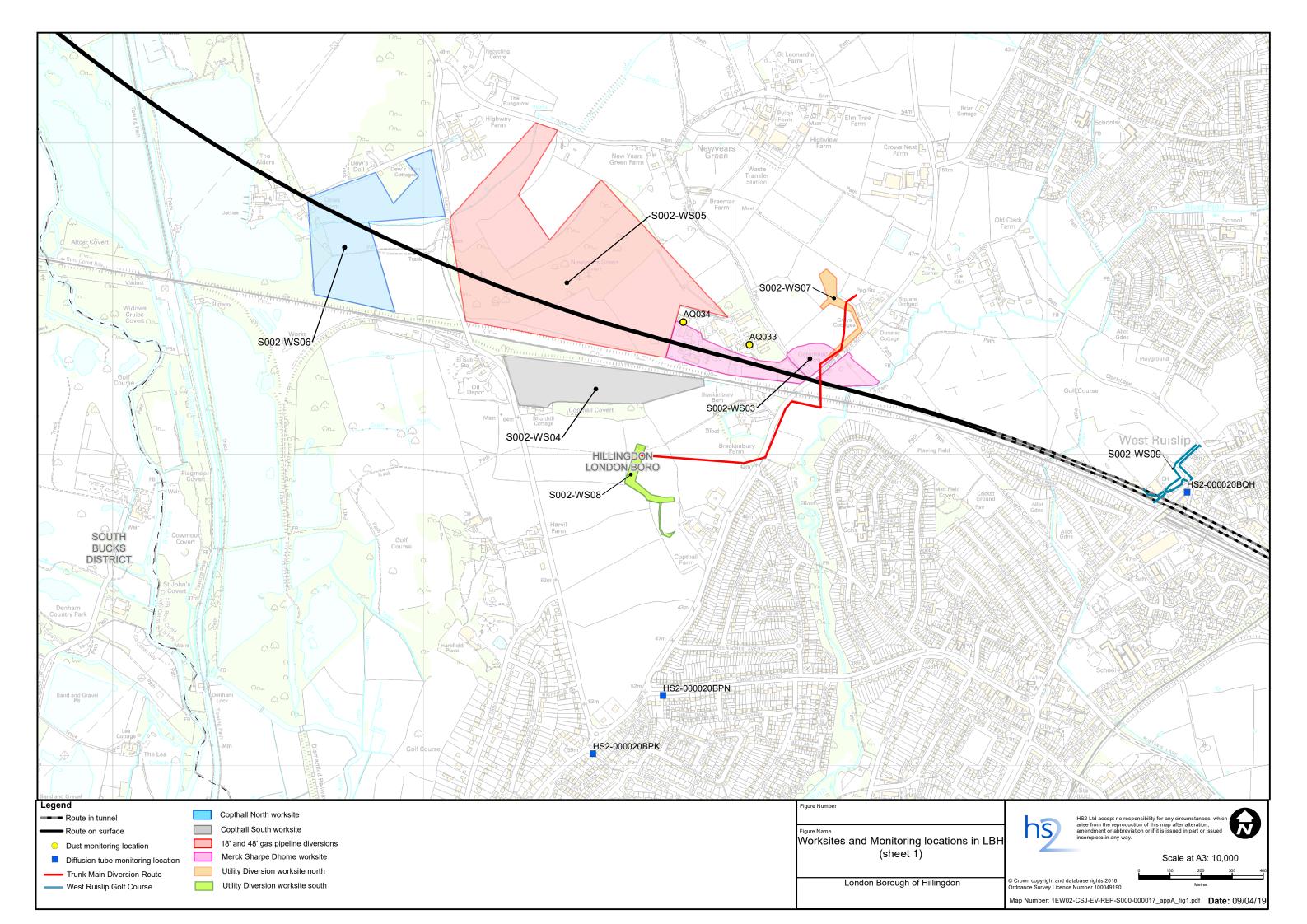
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in the London Borough of Hillingdon (LBH) during May 2019 and June 2019 respectively.
- 1.1.2 Figure 1 to Figure 4 in Appendix A indicate the current worksites, together with air quality and dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current phase of works commenced within the LBH during May 2018 and are expected to be completed by July 2019. The current worksites, as presented in Appendix A, Figure 1, include:
 - 18' and 48' gas pipeline diversions, advanced planting and habitat creation, worksite ref. S002-WS05;
 - Merck Sharpe Dohme, demolition works and new access road construction, worksite ref. S002-WS03;
 - Utility diversions at Breakspear Road South, worksites ref. S002-WS07 and S002-WS08;
 - Utility diversions at Copthall North, worksite ref. S002-WS06 and South, worksite ref. S002-WS04; and
 - Haul Road construction and site compound and vegetation clearance at West Ruislip Golf Course site, worksite ref: S002-WS09.
- 1.1.5 Two (2) dust monitors were installed around worksite S002-WS03, where site establishment works are underway. This site returned a high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1 together with line charts of monthly data from each dust monitor in Figure 5. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigations.
- 1.1.7 The trigger level of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites October 2018)' has been applied.

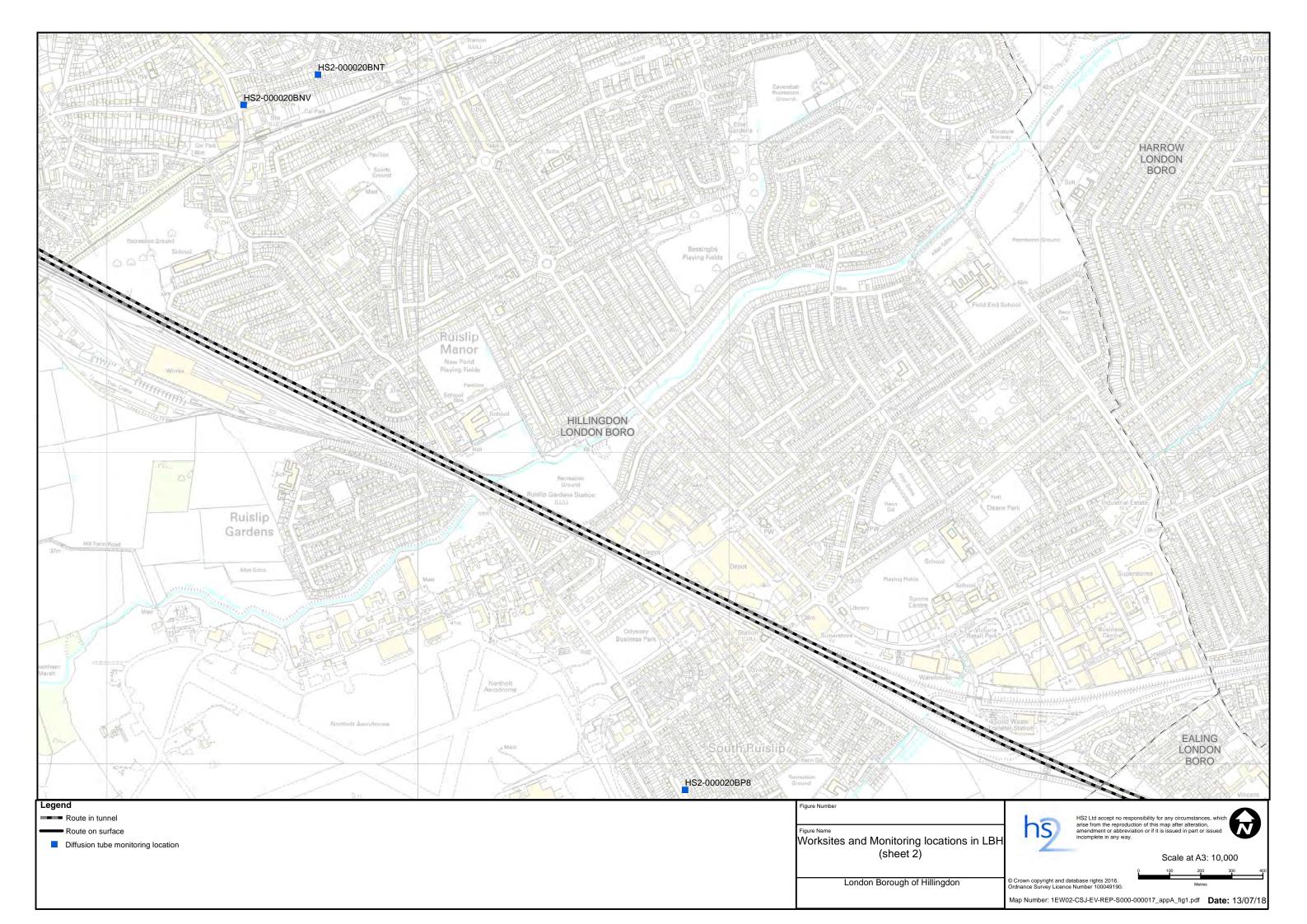
Air Quality and Dust Monitoring Summary Report, June 2019 London Borough of Hillingdon

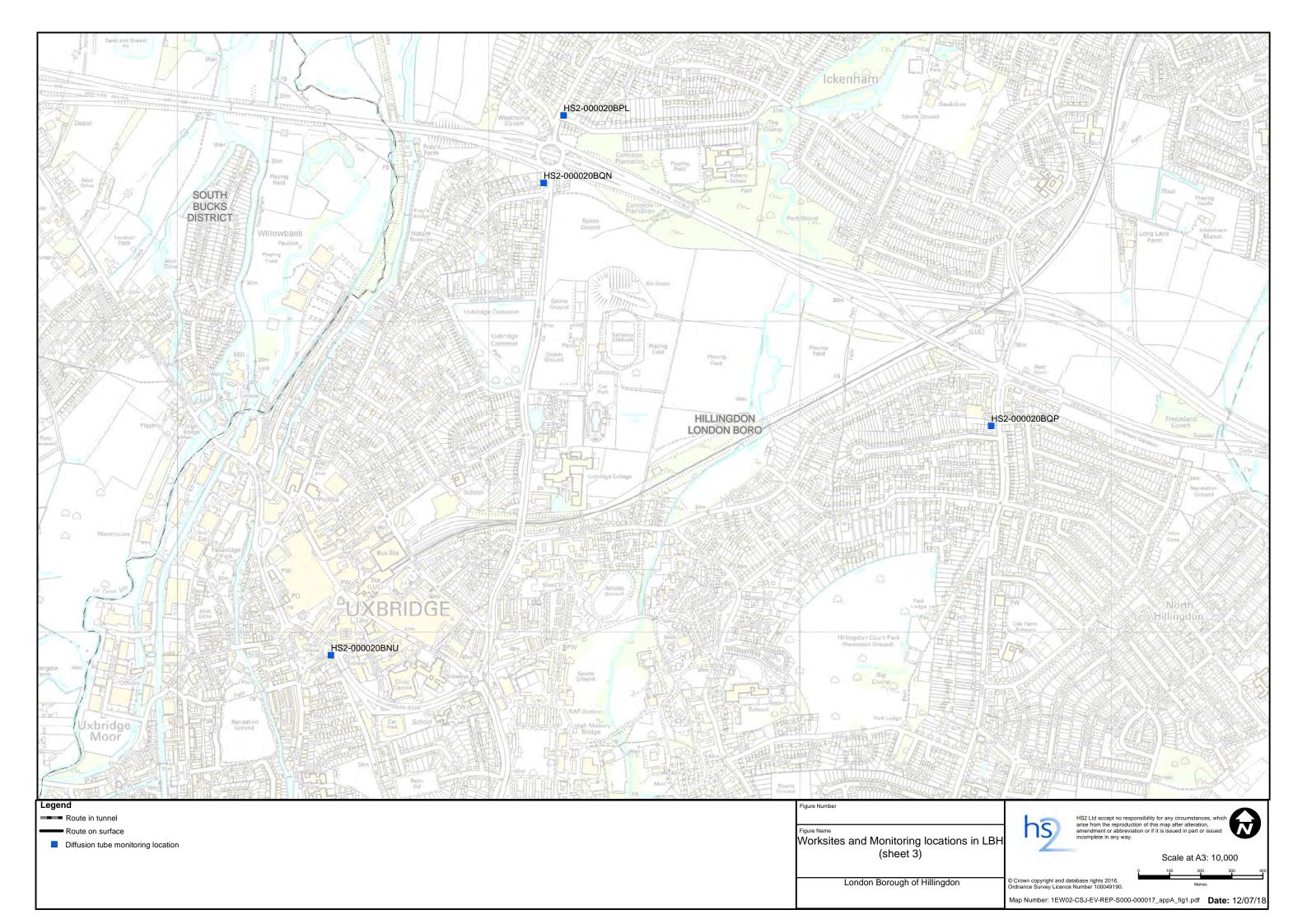
- 1.1.8 There were no (0) dust trigger alerts recorded during the month of June 2019. All results were in line with the expected ranges.
- 1.1.9 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at eleven (11) locations in May 2019, around highways within the LBH as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.10 Diffusion tube monitoring results are provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.
- 1.1.11 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2019 running mean.
- 1.1.12 There were no complaints received, relating to dust or air quality, during this monitoring period (June 2019).

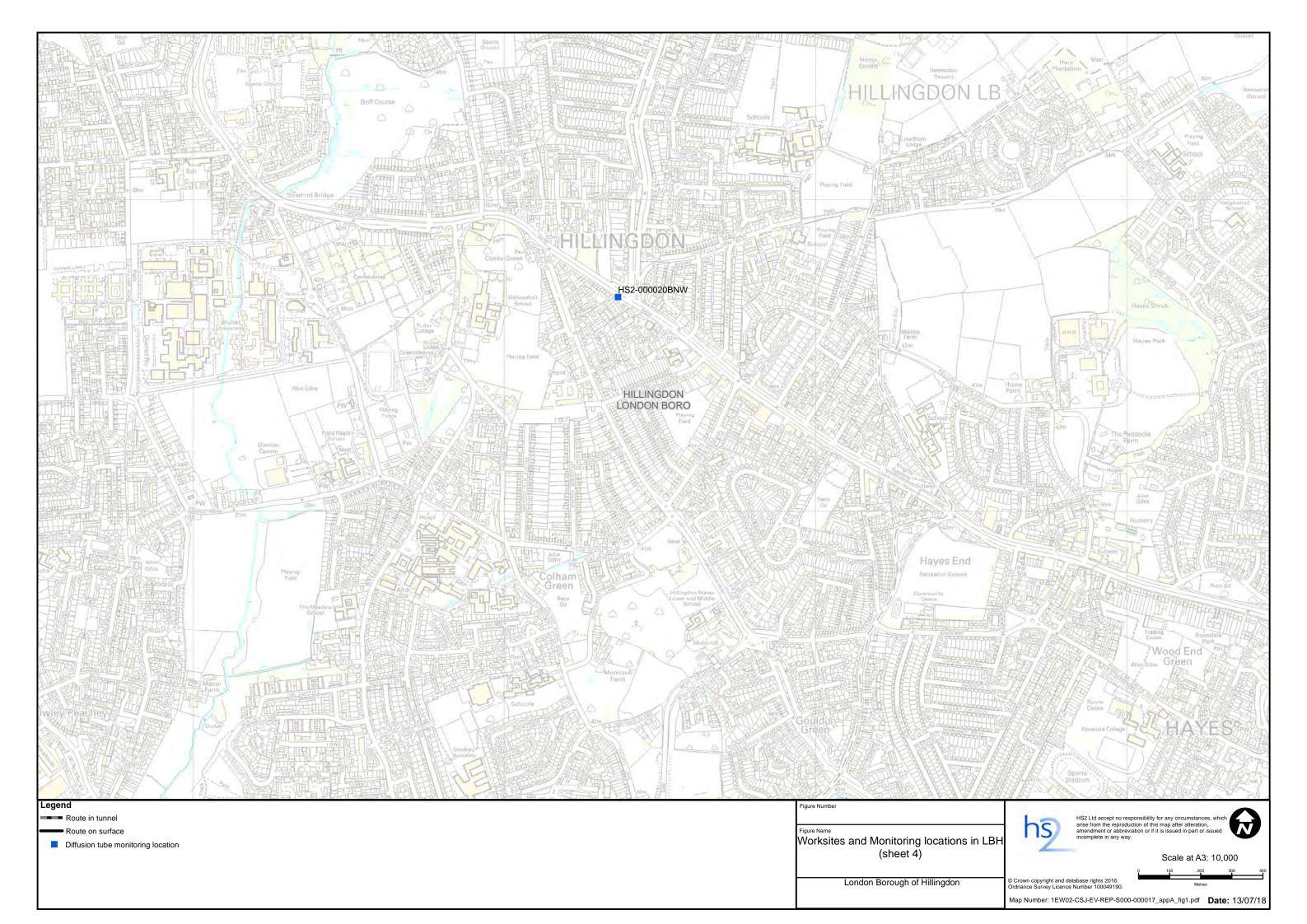
Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Worksites and monitoring locations within the LBH







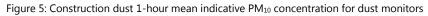


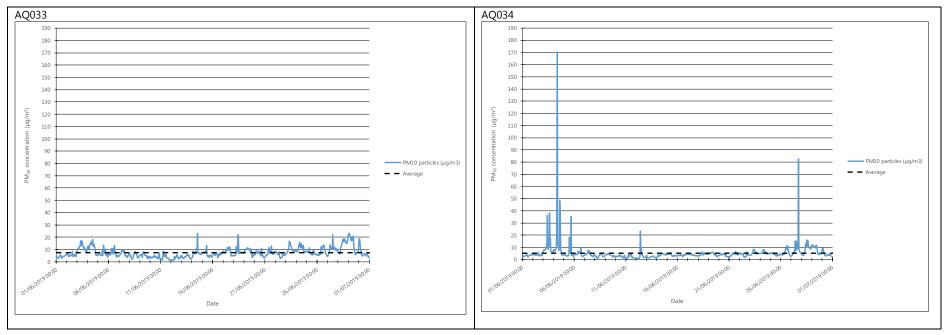
Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and June 2019 Results

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (μg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1- hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ033	507045, 187352	Merck Sharp Dohme, Building 24	н	Yes	Ν	7.5	1.2	23.1	0	100.0
AQ034	506832, 187425	Merck Sharpe Dohme Building 43	н	Yes	Ν	5.1	0.6	170.5	0	100.0

Air Quality and Dust Monitoring Summary Report, June 2019 London Borough of Hillingdon





Appendix C – Air Quality Monitoring Results

Table 2: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2019 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BNT	Lamp post on Pembroke Road	509678, 187214	34	41	28	26	20								30
HS2-000020BNU	Cowley Road sign post at junction with Hillingdon Road	505492, 183926	47	49	41	38	39								43
HS2-000020BNV	High Street sign post at junction with Pembroke Road	509439, 187117	46	47	38	45	27								41
HS2- 000020BNW	Signpost on A4020 Uxbridge Road at junction with Long Lane	507365, 182687	54	47	41	50	38								46
HS2-000020BPK	Lamp post in crescent off Swakeleys Road	506542, 186037	45	48	39	31	33								39
HS2-000020BPL	Warren Road sign post on corner of Swakeleys Road and Warren Road	506240, 185660	43	61	Tube missing	30	37								43
HS2-000020BPN	Lamp post on B467	506767, 186224	39	No data	36	31	32								34
HS2-000020BQH	Lamp post on High Road Ickenham	508451, 186879	51	49	42	38	35								43
HS2-000020BQN	Lamp post on Park Road	506176, 185444	45	54	54	52	40								49
HS2-000020BQP	Sign post on Long Lane	507614, 184663	43	47	43	48	38								44
HS2-000020BP8	Triplicate site at South Ruislip roadside automatic monitoring station	510858, 184916	46	44	34	36	29								38

¹ Note: to aid interpretation and conform with best practice, the monthly measurements in this table are reported rounded to the nearest whole number. The annual mean presented here is calculated based on laboratory data to 4 significant figures, rounded to a whole number, and therefore may differ slightly to a mean derived from averaging the rounded monthly measurements in the table.