

Air Quality and Dust Monitoring Monthly Report – September 2019

London Borough of Hillingdon



SKANSKA



Department for Transport

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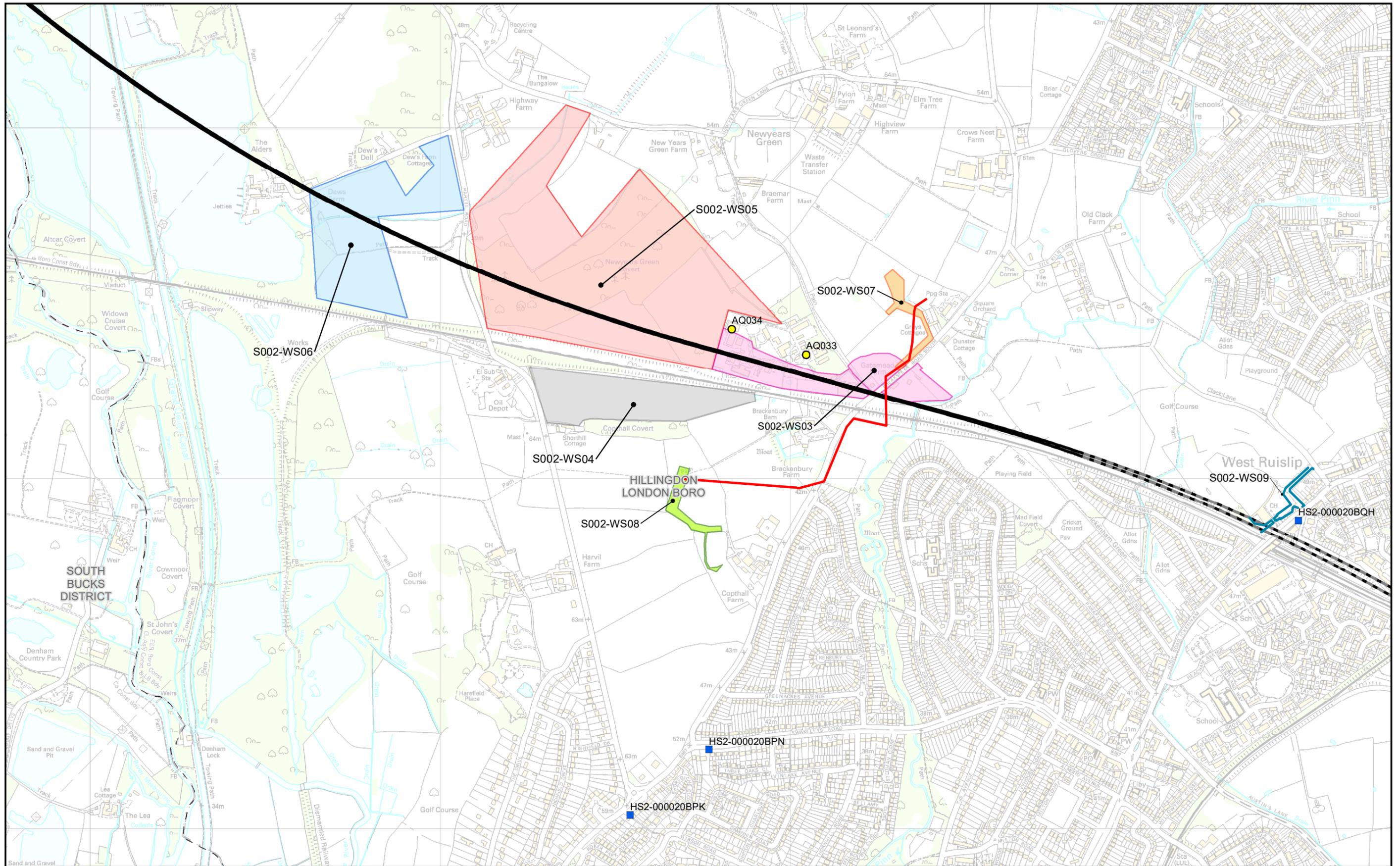
Monthly Summary

- 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 monitoring undertaken in the London Borough of Hillingdon (LBH) during August 2019.
- 1.1.2 Figure 1 to Figure 4 in Appendix A indicate the current work sites, together with air quality 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 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 November 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, completed worksite ref. S002-WS03;
 - Utility diversions at Breakspear Road South; work sites 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 There are no current high dust risk worksites located within the LBH due to the temporary cessation of demolition works at the MSD site. Therefore, the two dust monitors installed around the site have been temporarily removed and will be returned prior to recommencement of works.
- 1.1.6 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at eleven (11) locations in August 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.
- 1.1.7 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.
- 1.1.8 NO₂ monitoring locations and results are presented in Appendix B, Table 1, together with the 2019 running mean.

1.1.9 There were no (0) complaints received, relating to air quality, during this monitoring period (September 2019).

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Current monitoring locations within the LBH



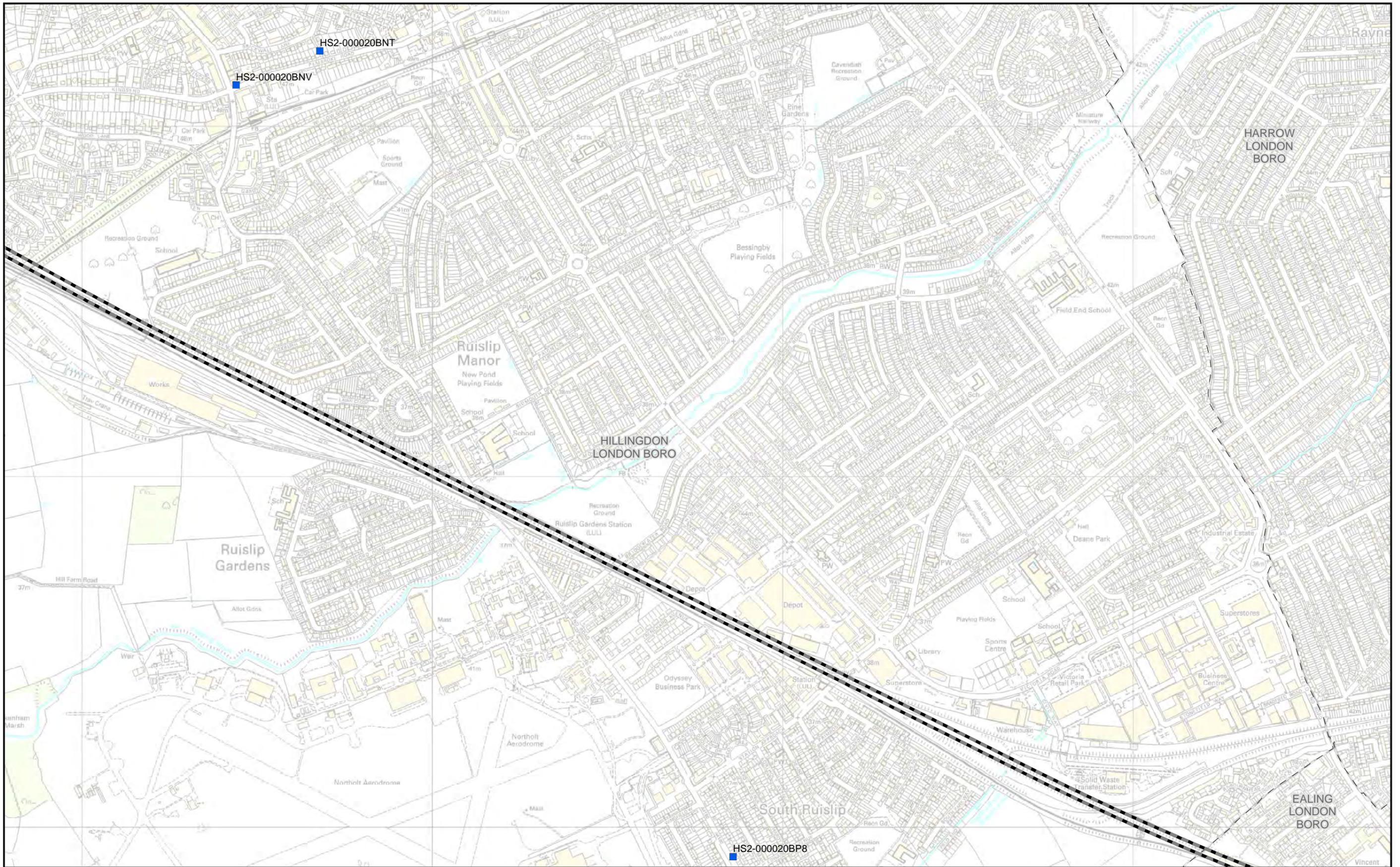
- Legend**
- Route in tunnel
 - Route on surface
 - Dust monitoring location
 - Diffusion tube monitoring location
 - Trunk Main Diversion Route
 - West Ruislip Golf Course
 - Copthall North worksite
 - Copthall South worksite
 - 18' and 48' gas pipeline diversions
 - Merck Sharpe Dhome worksite
 - Utility Diversion worksite north
 - Utility Diversion worksite south

Figure Number	
Figure Name	Worksites and Monitoring locations in LBH (sheet 1)
London Borough of Hillingdon	

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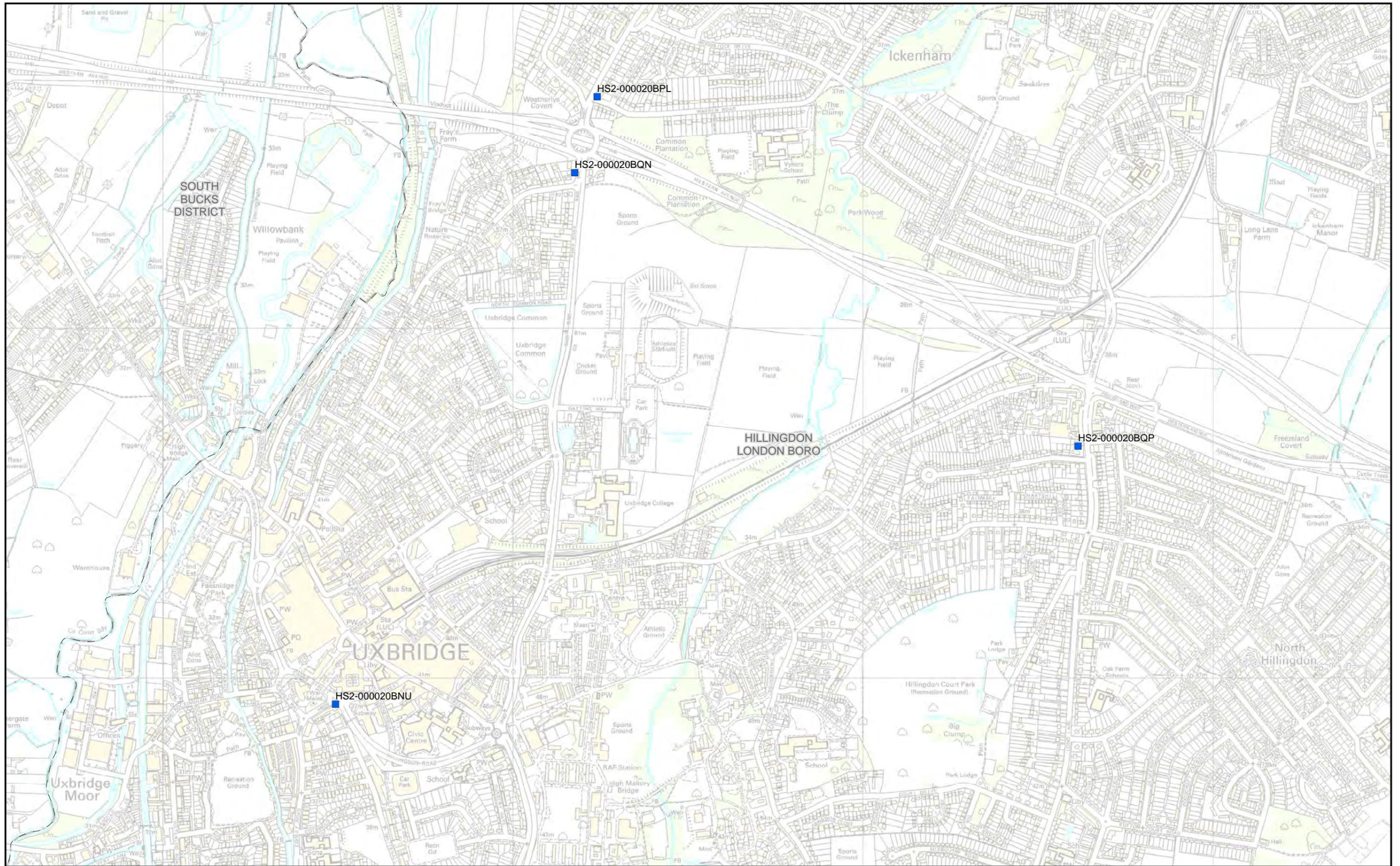
- Legend**
- Route in tunnel
 - Route on surface
 - Diffusion tube monitoring location

Figure Number
Figure Name Worksites and Monitoring locations in LBH (sheet 2)
London Borough of Hillingdon

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Legend

- Route in tunnel
- Route on surface
- Diffusion tube monitoring location

Figure Number

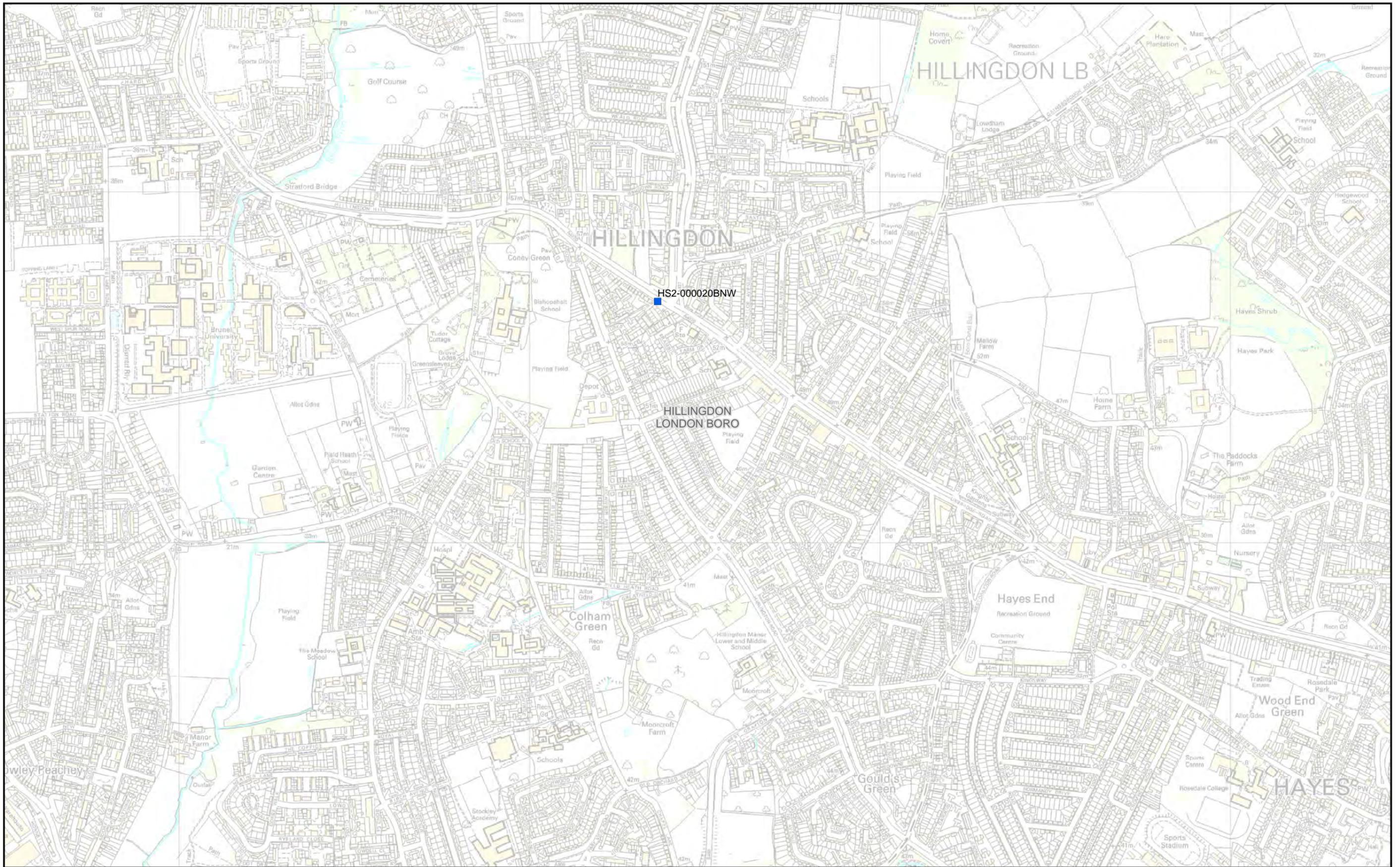
Figure Name
**Worksites and Monitoring locations in LBH
 (sheet 3)**

London Borough of Hillingdon

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- Legend**
- Route in tunnel
 - Route on surface
 - Diffusion tube monitoring location

Figure Number
Figure Name Worksites and Monitoring locations in LBH (sheet 4)
London Borough of Hillingdon

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Appendix B – Air Quality Monitoring Results

Table 1: 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	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BNT	Lamp post on Pembroke Road	509678, 187214	34	41	28	26	20	23	17	22					26
HS2-000020BNU	Cowley Road sign post at junction with Hillingdon Road	505492, 183926	47	49	41	38	39	43	36	46					42
HS2-000020BNV	High Street sign post at junction with Pembroke Road	509439, 187117	46	47	38	45	27	39	34	35					39
HS2-000020BNW	Signpost on A4020 Uxbridge Road at junction with Long Lane	507365, 182687	54	47	41	50	38	41	36	32					42
HS2-000020BPK	Lamp post in crescent off Swakeleys Road	506542, 186037	45	48	39	31	33	28	34	33					36
HS2-000020BPL	Warren Road sign post on corner of Swakeleys Road and Warren Road	506240, 185660	43	61	Tube missing	30	37	36	38	40					41
HS2-000020BPN	Lamp post on B467	506767, 186224	39	No data	36	31	32	28	26	27					31
HS2-000020BQH	Lamp post on High Road Ickenham	508451, 186879	51	49	42	38	35	31	35	36					40
HS2-000020BQN	Lamp post on Park Road	506176, 185444	45	54	54	52	40	48	41	37					46
HS2-000020BQP	Sign post on Long Lane	507614, 184663	43	47	43	48	38	45	38	34					42

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.

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BP8	Triplicate site at South Ruislip roadside automatic monitoring station	510858, 184916	46	44	34	36	29	37	Tubes missing	Tubes missing					38