

Air Quality and Dust Monitoring Monthly Report – October 2019

South Northamptonshire District Council



Department for Transport

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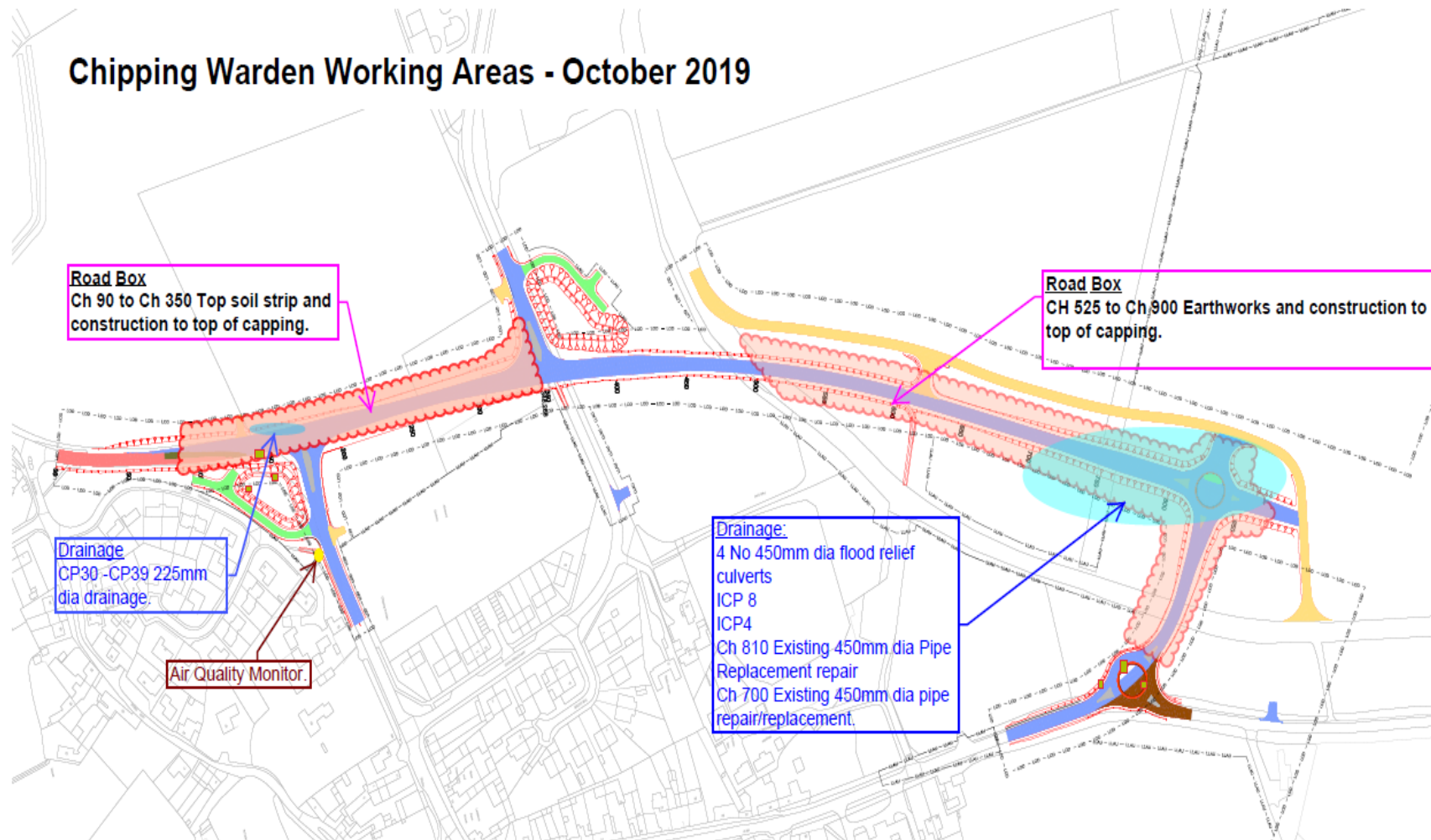
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Monthly Summary

- 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 dust monitoring undertaken in South Northamptonshire District Council (SNDC) during October 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for October 2019.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly 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 methodology to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current phase of works commenced within the SNDC during October 2019 and is expected to be completed by May 2020. The current worksites, as presented in Appendix A, Figure 1, form part of the Chipping Warden road-widening item of the DC3A Work Package and include:
- Road box work, top soil strip and construction to top of capping along the Relief Road;
 - Drainage work along the Relief Road;
 - Road box work, earthworks and construction to top of capping along the Relief Road; and
 - Drainage work, repair/replacement to existing pipes along the Relief Road.
- 1.1.5 One (1) dust monitor is installed around the worksites, where earthworks, construction and trackout activities are underway. These sites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from this dust monitor presented in Figure 2. 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 mitigation.
- 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.
- 1.1.8 There were no (0) complaints, relating to dust or air quality, received during this monitoring period (October 2019).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations during October 2019 in the South Northamptonshire District Council



Appendix B – Dust Monitoring Results

Table 1 Dust monitoring locations and October 2019 Results (8th October – 31st October 2019)

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 (%)
AQ001	449728, 248774	Secured to a lamppost by a footpath connecting Banbury Road to Allens Orchard	M	Yes	No	7.1	0.6	25.9	0	98.8

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitor AQ001

