

Holloway Park, London

Construction Monitoring Report

Client: London Square
Ref: CM82-22405-R0
Date: 5 June 2024
Note by: Anthony Coraci, MSc DipIOA MIOA, Senior Acoustics Consultant

1. INTRODUCTION

1.1 This Technical Note sets out results of the construction monitoring being carried out at the above site between Monday 13th & Saturday 25th May 2024. The monitoring is being carried out in general agreement with the methodology in the current Section 61 Consent between the London Borough of Islington and OHOB.

2. WEEKLY ACTIVITIES

2.1 The following activities have been carried during the period covered by this report, in addition to the usual use of the Haul Road with site vehicles:

OHOB

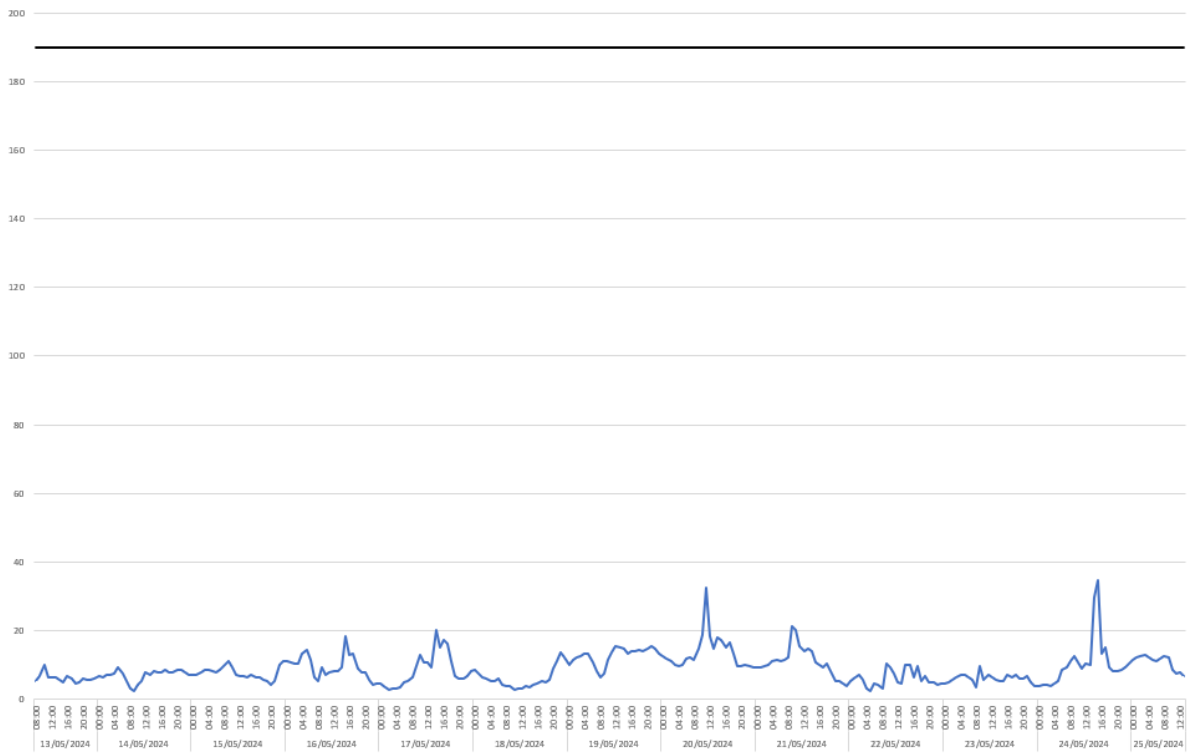
- Working on drainage at Gate 2 and near welfare and further into the site
- Installation of drainage under road adjacent to location 3.
- Excavation of pilecaps in Block C
- Installation of drainage under temp haul road, adjacent to site welfare accommodation.
- Muck away works (i.e. the process of removing waste material, debris, and soil)
- Concrete tower crane base for TC1
- Installation of pilecaps




3. MONITORING DATA

3.1 This section sets out a summary of the monitoring data that has been recorded onsite and provides a discussion of any exceedances and best practicable means incorporated by the site team if exceedances were believed to be construction related.

Dust Monitoring Results

Location 1

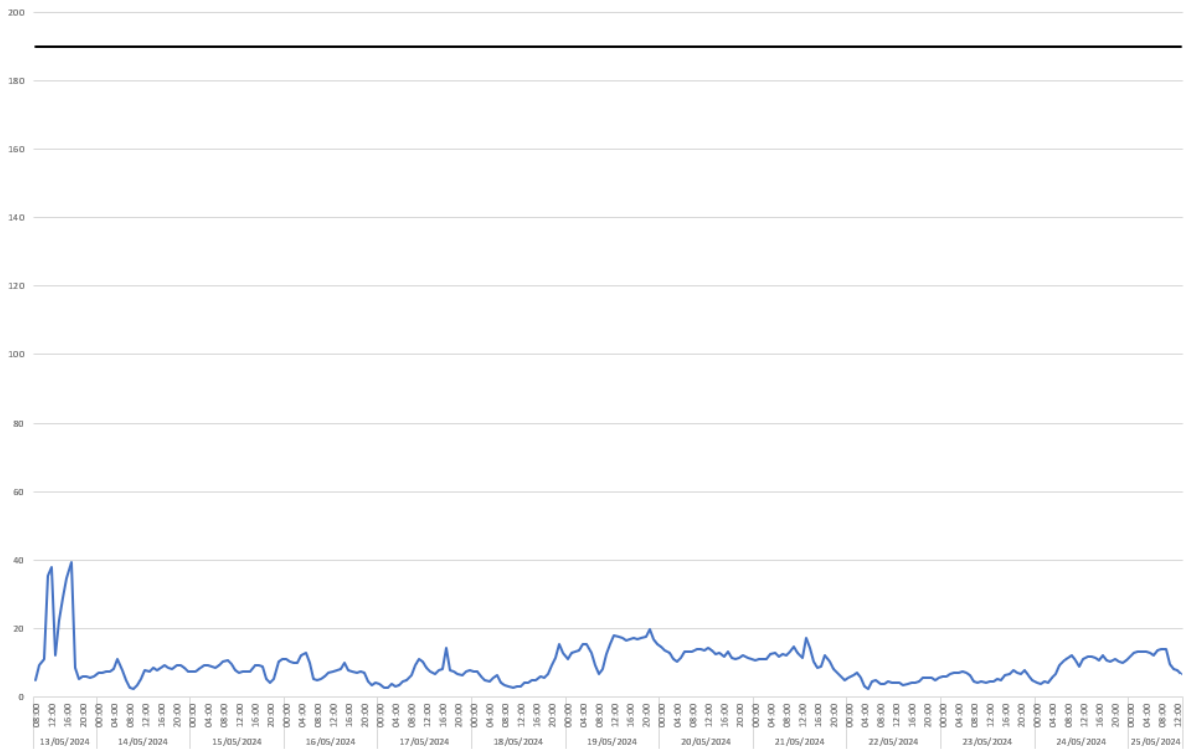


-  Dust trigger level, 190 $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
-  Dust level, $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
-  Data unavailable

3.2 There was 100% data coverage at Location 1 during construction hours for the monitoring period covered by this report.

3.3 No exceedances of the project dust criteria of 190 micrograms per cubic meter were recorded during the monitoring period covered by this report.

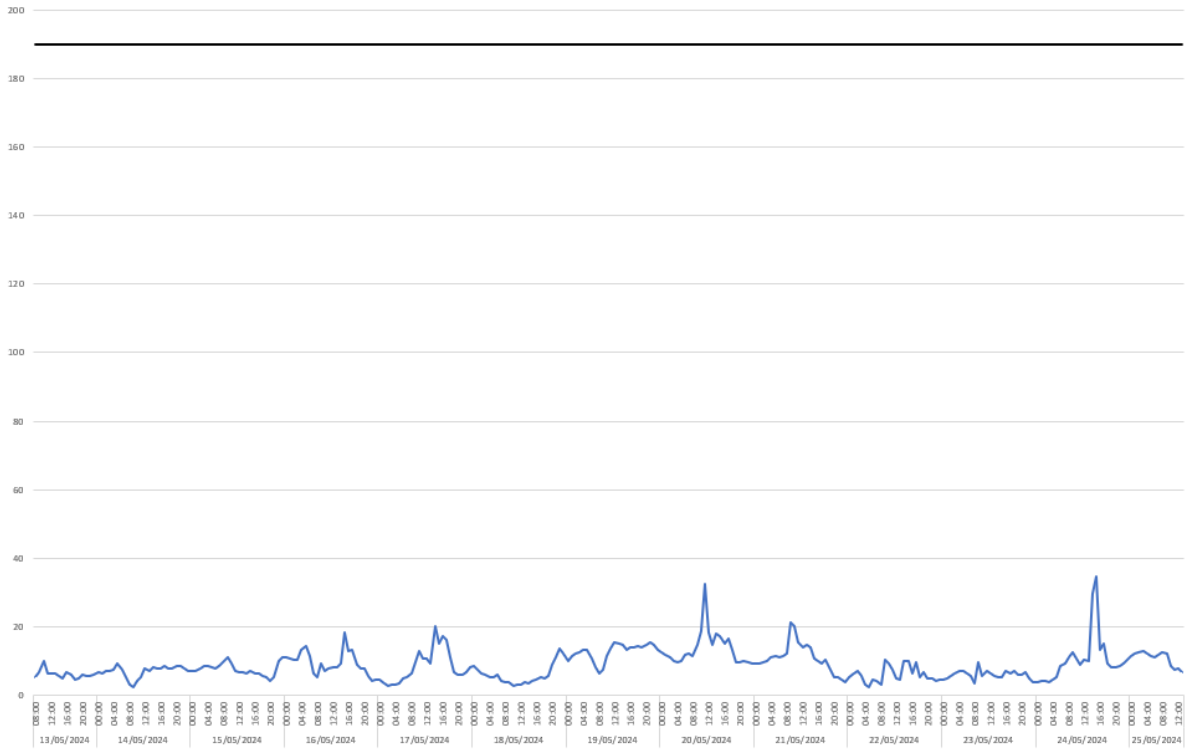
Location 2






- Dust trigger level, 190 $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
- Dust level, $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
- Data unavailable

- 3.4 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report.
- 3.5 No exceedances of the project dust criteria of 190 micrograms per cubic meter were recorded during the monitoring period covered by this report.

Location 3



-  Dust trigger level, 190 $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
-  Dust level, $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
-  Data unavailable

- 3.6 There was 100% data coverage at Location 3 during construction hours for the monitoring period covered by this report.
- 3.7 No exceedances of the project dust criteria of 190 micrograms per cubic meter were recorded during the monitoring period covered by this report.

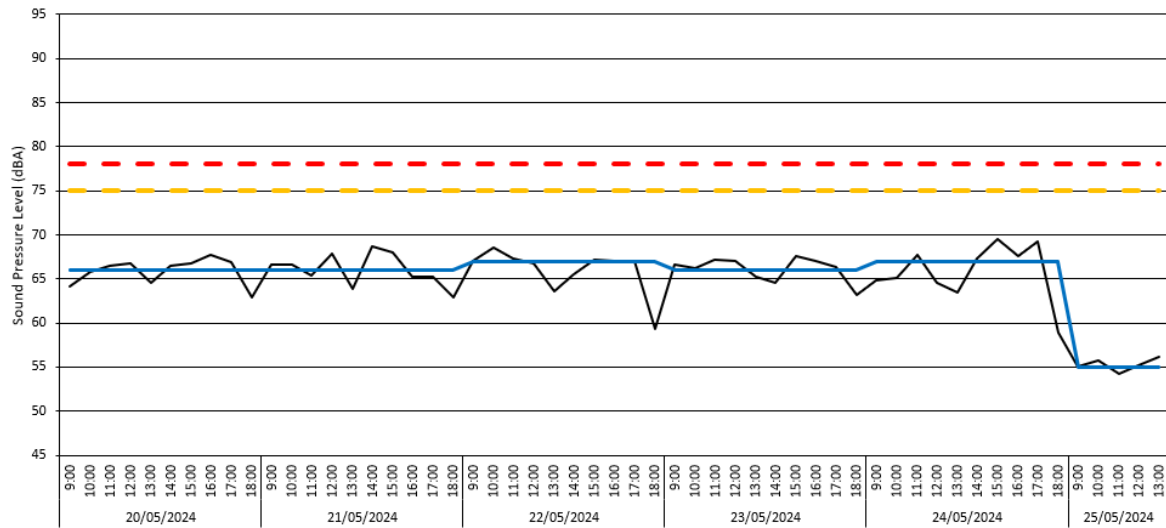
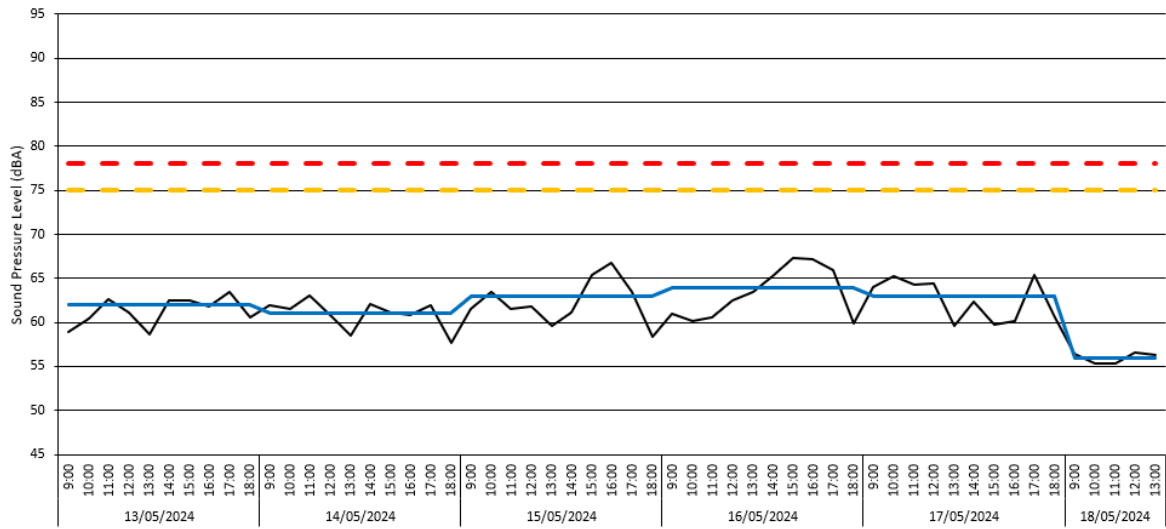


Noise Monitoring Results

Location 1 – Raw Data

# Broadband Results			LAeq(60min)	LAeq(7hr)	LAeq(10hr)	LAeq(5hr)
Date	Time	[dB]	[dB]	[dB]	[dB]	[dB]
[YYYY-MM-DD]	[hh:mm:ss]					
2024-05-13	09:00:00	58.9	--	--	--	--
2024-05-13	10:00:00	60.4	--	--	--	--
2024-05-13	11:00:00	62.7	--	--	--	--
2024-05-13	12:00:00	61.1	--	--	--	--
2024-05-13	13:00:00	58.7	--	--	--	--
2024-05-13	14:00:00	62.5	--	--	--	--
2024-05-13	15:00:00	62.5	--	--	--	--
2024-05-13	16:00:00	61.8	--	--	--	--
2024-05-13	17:00:00	63.4	--	--	--	--
2024-05-13	18:00:00	60.5	--	61.5	--	--
2024-05-14	09:00:00	62.0	--	--	--	--
2024-05-14	10:00:00	61.5	--	--	--	--
2024-05-14	11:00:00	63.1	--	--	--	--
2024-05-14	12:00:00	60.9	--	--	--	--
2024-05-14	13:00:00	58.5	--	--	--	--
2024-05-14	14:00:00	62.1	--	--	--	--
2024-05-14	15:00:00	61.1	--	--	--	--
2024-05-14	16:00:00	60.9	--	--	--	--
2024-05-14	17:00:00	62.0	--	--	--	--
2024-05-14	18:00:00	57.7	--	61.2	--	--
2024-05-15	09:00:00	61.5	--	--	--	--
2024-05-15	10:00:00	63.5	--	--	--	--
2024-05-15	11:00:00	61.6	--	--	--	--
2024-05-15	12:00:00	61.8	--	--	--	--
2024-05-15	13:00:00	59.6	--	--	--	--
2024-05-15	14:00:00	61.1	--	--	--	--
2024-05-15	15:00:00	65.4	--	--	--	--
2024-05-15	16:00:00	66.8	--	--	--	--
2024-05-15	17:00:00	63.4	--	--	--	--
2024-05-15	18:00:00	58.4	--	63.0	--	--
2024-05-16	09:00:00	61.0	--	--	--	--
2024-05-16	10:00:00	60.2	--	--	--	--
2024-05-16	11:00:00	60.5	--	--	--	--
2024-05-16	12:00:00	62.5	--	--	--	--
2024-05-16	13:00:00	63.5	--	--	--	--
2024-05-16	14:00:00	65.3	--	--	--	--
2024-05-16	15:00:00	67.3	--	--	--	--
2024-05-16	16:00:00	67.2	--	--	--	--
2024-05-16	17:00:00	66.0	--	--	--	--
2024-05-16	18:00:00	59.9	--	64.2	--	--
2024-05-17	09:00:00	64.0	--	--	--	--
2024-05-17	10:00:00	65.2	--	--	--	--
2024-05-17	11:00:00	64.3	--	--	--	--
2024-05-17	12:00:00	64.4	--	--	--	--
2024-05-17	13:00:00	59.6	--	--	--	--
2024-05-17	14:00:00	62.4	--	--	--	--
2024-05-17	15:00:00	59.7	--	--	--	--
2024-05-17	16:00:00	60.2	--	--	--	--
2024-05-17	17:00:00	65.4	--	--	--	--
2024-05-17	18:00:00	60.6	--	63.1	--	--
2024-05-18	09:00:00	56.5	--	--	--	--
2024-05-18	10:00:00	55.4	--	--	--	--
2024-05-18	11:00:00	55.3	--	--	--	--
2024-05-18	12:00:00	56.6	--	--	--	--
2024-05-18	13:00:00	56.3	--	--	56.1	--
2024-05-19	18:00:00	--	--	55.6	--	--
2024-05-20	09:00:00	64.1	--	--	--	--
2024-05-20	10:00:00	65.8	--	--	--	--
2024-05-20	11:00:00	66.5	--	--	--	--
2024-05-20	12:00:00	66.8	--	--	--	--
2024-05-20	13:00:00	64.5	--	--	--	--
2024-05-20	14:00:00	66.5	--	--	--	--
2024-05-20	15:00:00	66.7	--	--	--	--
2024-05-20	16:00:00	67.7	--	--	--	--
2024-05-20	17:00:00	66.9	--	--	--	--
2024-05-20	18:00:00	62.9	--	66.1	--	--
2024-05-21	09:00:00	66.6	--	--	--	--
2024-05-21	10:00:00	66.6	--	--	--	--
2024-05-21	11:00:00	65.4	--	--	--	--
2024-05-21	12:00:00	67.8	--	--	--	--
2024-05-21	13:00:00	63.9	--	--	--	--
2024-05-21	14:00:00	68.7	--	--	--	--
2024-05-21	15:00:00	68.0	--	--	--	--
2024-05-21	16:00:00	65.2	--	--	--	--
2024-05-21	17:00:00	65.2	--	--	--	--
2024-05-21	18:00:00	62.9	--	66.4	--	--
2024-05-22	09:00:00	67.1	--	--	--	--
2024-05-22	10:00:00	68.6	--	--	--	--
2024-05-22	11:00:00	67.3	--	--	--	--
2024-05-22	12:00:00	66.7	--	--	--	--
2024-05-22	13:00:00	63.6	--	--	--	--
2024-05-22	14:00:00	65.5	--	--	--	--
2024-05-22	15:00:00	67.2	--	--	--	--
2024-05-22	16:00:00	67.1	--	--	--	--
2024-05-22	17:00:00	67.0	--	--	--	--
2024-05-22	18:00:00	59.3	--	66.5	--	--
2024-05-23	09:00:00	66.6	--	--	--	--
2024-05-23	10:00:00	66.2	--	--	--	--
2024-05-23	11:00:00	67.2	--	--	--	--
2024-05-23	12:00:00	67.1	--	--	--	--
2024-05-23	13:00:00	65.3	--	--	--	--
2024-05-23	14:00:00	64.6	--	--	--	--
2024-05-23	15:00:00	67.6	--	--	--	--
2024-05-23	16:00:00	67.1	--	--	--	--
2024-05-23	17:00:00	66.4	--	--	--	--
2024-05-23	18:00:00	63.2	--	66.3	--	--
2024-05-24	09:00:00	64.9	--	--	--	--
2024-05-24	10:00:00	65.1	--	--	--	--
2024-05-24	11:00:00	67.7	--	--	--	--
2024-05-24	12:00:00	64.5	--	--	--	--
2024-05-24	13:00:00	63.5	--	--	--	--
2024-05-24	14:00:00	67.3	--	--	--	--
2024-05-24	15:00:00	69.5	--	--	--	--
2024-05-24	16:00:00	67.6	--	--	--	--
2024-05-24	17:00:00	69.2	--	--	--	--
2024-05-24	18:00:00	58.9	--	66.7	--	--
2024-05-25	09:00:00	55.1	--	--	--	--
2024-05-25	10:00:00	55.8	--	--	--	--
2024-05-25	11:00:00	54.3	--	--	--	--
2024-05-25	12:00:00	55.2	--	--	--	--
2024-05-25	13:00:00	56.2	--	--	55.4	--

Location 1 – Time History Data



- Daily noise trigger level (75 dB LAeq,0800-1800 hours, LAeq,0800-1300 hours)
- - - Hourly noise action level (78 dB LAeq, 1 hour)
- Noise level, LAeq, 1hour
- Daily noise level (dB LAeq,0800-1800 hours, LAeq,0800-1300 hours)
- Data unavailable

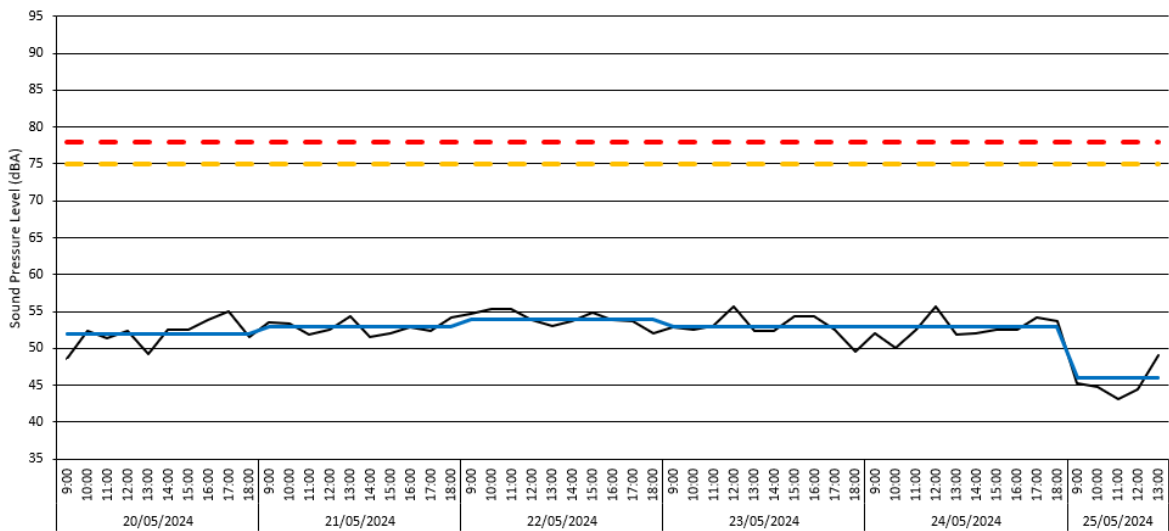
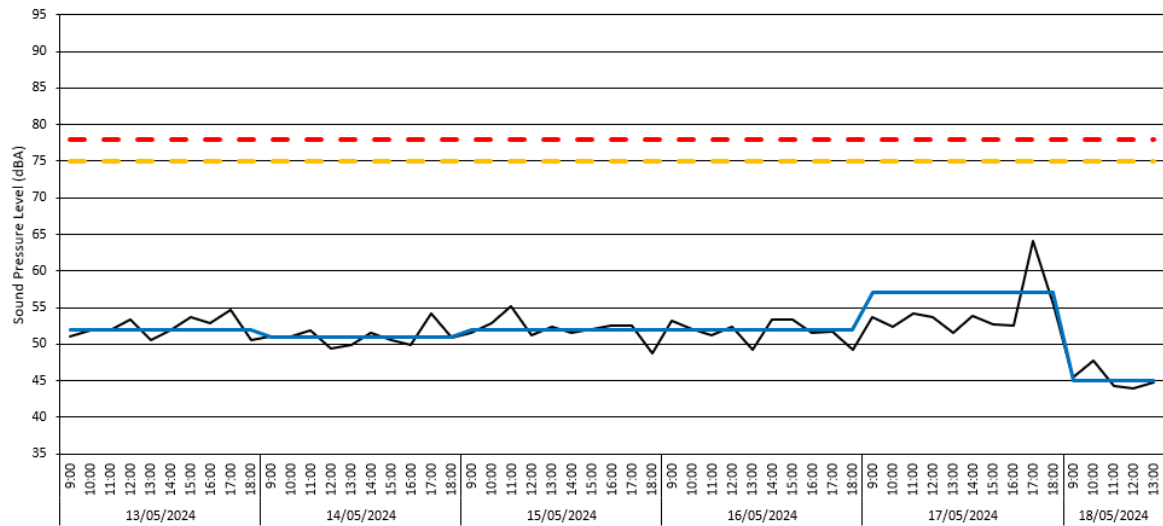
3.8 There was 100% data coverage at Location 1 during construction hours for the monitoring period covered by this report. The monitor was offline between:

3.9 No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Location 2 – Raw Data

# Broadband Results	Date	Time	LAeq(60min)	LAeq(10hr)	LAeq(5hr)
	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]
	2024-05-13	09:00:00	51.1	--	--
	2024-05-13	10:00:00	51.8	--	--
	2024-05-13	11:00:00	51.9	--	--
	2024-05-13	12:00:00	53.3	--	--
	2024-05-13	13:00:00	50.6	--	--
	2024-05-13	14:00:00	51.8	--	--
	2024-05-13	15:00:00	53.6	--	--
	2024-05-13	16:00:00	52.9	--	--
	2024-05-13	17:00:00	54.6	--	--
	2024-05-13	18:00:00	50.6	52.4	--
	2024-05-14	09:00:00	51.0	--	--
	2024-05-14	10:00:00	51.0	--	--
	2024-05-14	11:00:00	51.9	--	--
	2024-05-14	12:00:00	49.4	--	--
	2024-05-14	13:00:00	49.8	--	--
	2024-05-14	14:00:00	51.5	--	--
	2024-05-14	15:00:00	50.6	--	--
	2024-05-14	16:00:00	49.9	--	--
	2024-05-14	17:00:00	54.2	--	--
	2024-05-14	18:00:00	50.9	51.2	--
	2024-05-15	09:00:00	51.5	--	--
	2024-05-15	10:00:00	52.9	--	--
	2024-05-15	11:00:00	55.1	--	--
	2024-05-15	12:00:00	51.2	--	--
	2024-05-15	13:00:00	52.4	--	--
	2024-05-15	14:00:00	51.5	--	--
	2024-05-15	15:00:00	52.0	--	--
	2024-05-15	16:00:00	52.6	--	--
	2024-05-15	17:00:00	52.5	--	--
	2024-05-15	18:00:00	48.7	52.3	--
	2024-05-16	09:00:00	53.2	--	--
	2024-05-16	10:00:00	52.1	--	--
	2024-05-16	11:00:00	51.2	--	--
	2024-05-16	12:00:00	52.4	--	--
	2024-05-16	13:00:00	49.2	--	--
	2024-05-16	14:00:00	53.3	--	--
	2024-05-16	15:00:00	53.3	--	--
	2024-05-16	16:00:00	51.5	--	--
	2024-05-16	17:00:00	51.7	--	--
	2024-05-16	18:00:00	49.2	51.9	--
	2024-05-17	09:00:00	53.6	--	--
	2024-05-17	10:00:00	52.4	--	--
	2024-05-17	11:00:00	54.2	--	--
	2024-05-17	12:00:00	53.6	--	--
	2024-05-17	13:00:00	51.5	--	--
	2024-05-17	14:00:00	53.8	--	--
	2024-05-17	15:00:00	52.7	--	--
	2024-05-17	16:00:00	52.6	--	--
	2024-05-17	17:00:00	64.1	--	--
	2024-05-17	18:00:00	55.3	56.6	--
	2024-05-18	09:00:00	45.4	--	--
	2024-05-18	10:00:00	47.7	--	--
	2024-05-18	11:00:00	44.2	--	--
	2024-05-18	12:00:00	44.0	--	--
	2024-05-18	13:00:00	44.7	--	45.4
	2024-05-19	18:00:00	--	48.6	--
	2024-05-20	09:00:00	48.6	--	--
	2024-05-20	10:00:00	52.3	--	--
	2024-05-20	11:00:00	51.3	--	--
	2024-05-20	12:00:00	52.4	--	--
	2024-05-20	13:00:00	49.3	--	--
	2024-05-20	14:00:00	52.6	--	--
	2024-05-20	15:00:00	52.6	--	--
	2024-05-20	16:00:00	53.8	--	--
	2024-05-20	17:00:00	55.0	--	--
	2024-05-20	18:00:00	51.6	52.3	--
	2024-05-21	09:00:00	53.5	--	--
	2024-05-21	10:00:00	53.3	--	--
	2024-05-21	11:00:00	51.9	--	--
	2024-05-21	12:00:00	52.6	--	--
	2024-05-21	13:00:00	54.4	--	--
	2024-05-21	14:00:00	51.5	--	--
	2024-05-21	15:00:00	52.1	--	--
	2024-05-21	16:00:00	52.9	--	--
	2024-05-21	17:00:00	52.3	--	--
	2024-05-21	18:00:00	54.1	53.0	--
	2024-05-22	09:00:00	54.6	--	--
	2024-05-22	10:00:00	55.3	--	--
	2024-05-22	11:00:00	55.4	--	--
	2024-05-22	12:00:00	53.8	--	--
	2024-05-22	13:00:00	53.1	--	--
	2024-05-22	14:00:00	53.6	--	--
	2024-05-22	15:00:00	54.8	--	--
	2024-05-22	16:00:00	53.8	--	--
	2024-05-22	17:00:00	53.7	--	--
	2024-05-22	18:00:00	52.1	54.1	--
	2024-05-23	09:00:00	52.8	--	--
	2024-05-23	10:00:00	52.6	--	--
	2024-05-23	11:00:00	53.1	--	--
	2024-05-23	12:00:00	55.6	--	--
	2024-05-23	13:00:00	52.3	--	--
	2024-05-23	14:00:00	52.4	--	--
	2024-05-23	15:00:00	54.3	--	--
	2024-05-23	16:00:00	54.4	--	--
	2024-05-23	17:00:00	52.5	--	--
	2024-05-23	18:00:00	49.6	53.2	--
	2024-05-24	09:00:00	52.1	--	--
	2024-05-24	10:00:00	50.0	--	--
	2024-05-24	11:00:00	52.6	--	--
	2024-05-24	12:00:00	55.7	--	--
	2024-05-24	13:00:00	51.8	--	--
	2024-05-24	14:00:00	52.1	--	--
	2024-05-24	15:00:00	52.5	--	--
	2024-05-24	16:00:00	52.3	--	--
	2024-05-24	17:00:00	54.2	--	--
	2024-05-24	18:00:00	53.6	53.0	--
	2024-05-25	09:00:00	45.2	--	--
	2024-05-25	10:00:00	44.8	--	--
	2024-05-25	11:00:00	43.1	--	--
	2024-05-25	12:00:00	44.4	--	--
	2024-05-25	13:00:00	49.0	--	45.8

Location 2 – Time History Data



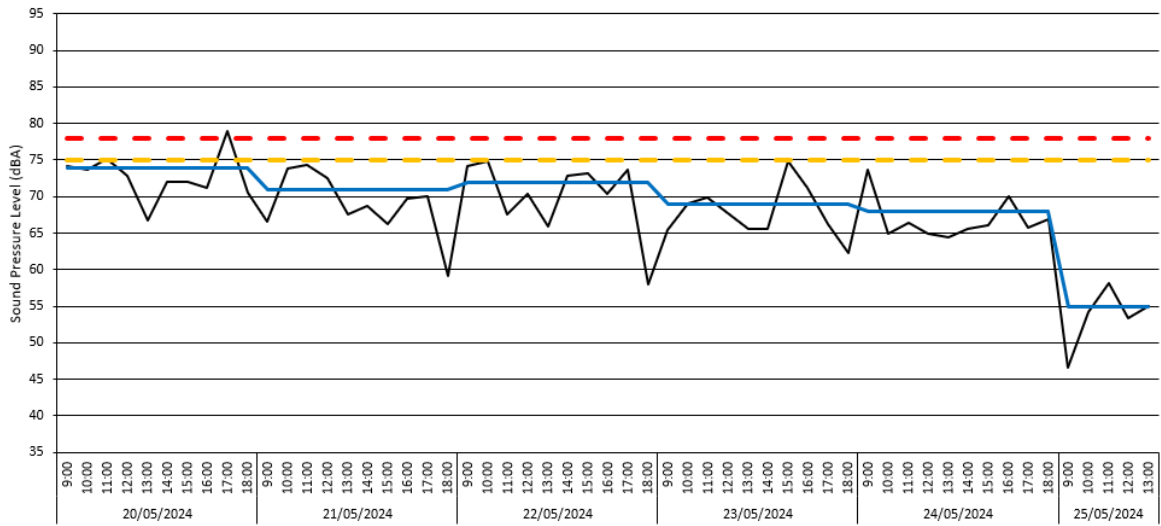
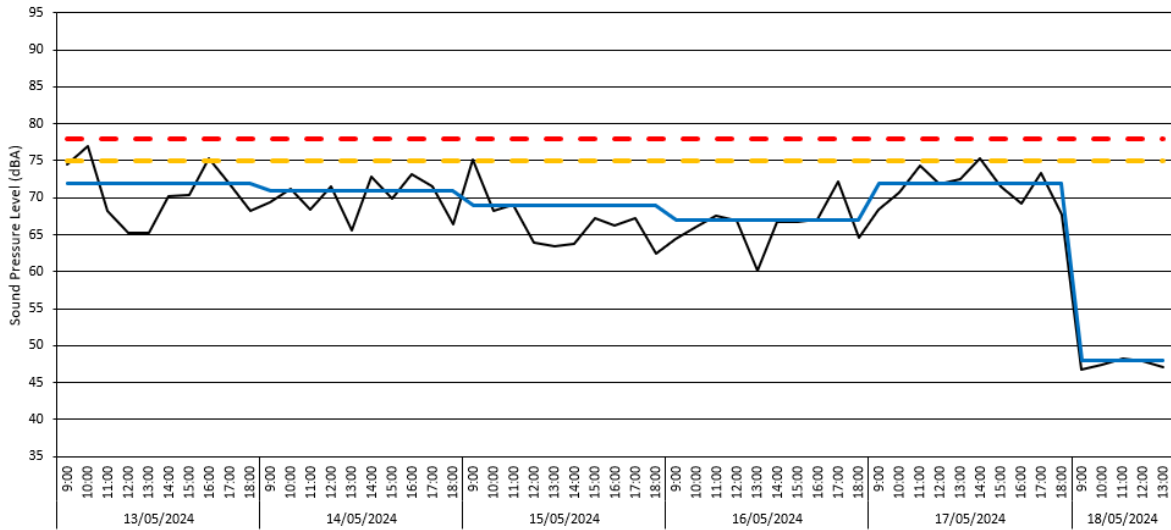
- Daily noise trigger level (75 dB LAeq, 0800-1800 hours, LAeq, 0800-1300 hours)
- - - Hourly noise action level (78 dB LAeq, 1 hour)
- Noise level, LAeq, 1 hour
- Daily noise level (dBA LAeq, 0800-1800 hours, LAeq, 0800-1300 hours)
- Data unavailable

- 3.10 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report.
- 3.11 No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Location 3 – Raw Data

# Broadband Results				
Date	Time	LAeq(60min)	LAeq(10hr)	LAeq(5hr)
[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]
2024-05-13	09:00:00	74.5	--	--
2024-05-13	10:00:00	76.9	--	--
2024-05-13	11:00:00	68.2	--	--
2024-05-13	12:00:00	65.3	--	--
2024-05-13	13:00:00	65.2	--	--
2024-05-13	14:00:00	70.2	--	--
2024-05-13	15:00:00	70.3	--	--
2024-05-13	16:00:00	75.4	--	--
2024-05-13	17:00:00	71.9	--	--
2024-05-13	18:00:00	68.3	72.3	--
2024-05-14	09:00:00	69.3	--	--
2024-05-14	10:00:00	71.2	--	--
2024-05-14	11:00:00	68.4	--	--
2024-05-14	12:00:00	71.5	--	--
2024-05-14	13:00:00	65.6	--	--
2024-05-14	14:00:00	72.8	--	--
2024-05-14	15:00:00	69.9	--	--
2024-05-14	16:00:00	73.2	--	--
2024-05-14	17:00:00	71.6	--	--
2024-05-14	18:00:00	66.4	70.6	--
2024-05-15	09:00:00	75.2	--	--
2024-05-15	10:00:00	68.2	--	--
2024-05-15	11:00:00	69.0	--	--
2024-05-15	12:00:00	63.9	--	--
2024-05-15	13:00:00	63.5	--	--
2024-05-15	14:00:00	63.8	--	--
2024-05-15	15:00:00	67.2	--	--
2024-05-15	16:00:00	66.3	--	--
2024-05-15	17:00:00	67.2	--	--
2024-05-15	18:00:00	62.5	68.5	--
2024-05-16	09:00:00	64.4	--	--
2024-05-16	10:00:00	66.1	--	--
2024-05-16	11:00:00	67.5	--	--
2024-05-16	12:00:00	66.9	--	--
2024-05-16	13:00:00	60.1	--	--
2024-05-16	14:00:00	66.7	--	--
2024-05-16	15:00:00	66.7	--	--
2024-05-16	16:00:00	67.1	--	--
2024-05-16	17:00:00	72.2	--	--
2024-05-16	18:00:00	64.6	67.2	--
2024-05-17	09:00:00	68.4	--	--
2024-05-17	10:00:00	70.7	--	--
2024-05-17	11:00:00	74.3	--	--
2024-05-17	12:00:00	71.8	--	--
2024-05-17	13:00:00	72.6	--	--
2024-05-17	14:00:00	75.3	--	--
2024-05-17	15:00:00	71.6	--	--
2024-05-17	16:00:00	69.2	--	--
2024-05-17	17:00:00	73.3	--	--
2024-05-17	18:00:00	67.8	72.1	--
2024-05-18	09:00:00	46.7	--	--
2024-05-18	10:00:00	47.4	--	--
2024-05-18	11:00:00	48.3	--	--
2024-05-18	12:00:00	47.9	--	--
2024-05-18	13:00:00	47.0	--	47.5
2024-05-19	18:00:00	--	53.9	--
2024-05-20	09:00:00	74.2	--	--
2024-05-20	10:00:00	73.6	--	--
2024-05-20	11:00:00	75.1	--	--
2024-05-20	12:00:00	72.9	--	--
2024-05-20	13:00:00	66.7	--	--
2024-05-20	14:00:00	72.0	--	--
2024-05-20	15:00:00	72.0	--	--
2024-05-20	16:00:00	71.2	--	--
2024-05-20	17:00:00	79.0	--	--
2024-05-20	18:00:00	70.6	73.8	--
2024-05-21	09:00:00	66.6	--	--
2024-05-21	10:00:00	73.9	--	--
2024-05-21	11:00:00	74.3	--	--
2024-05-21	12:00:00	72.5	--	--
2024-05-21	13:00:00	67.6	--	--
2024-05-21	14:00:00	68.8	--	--
2024-05-21	15:00:00	66.3	--	--
2024-05-21	16:00:00	69.7	--	--
2024-05-21	17:00:00	70.0	--	--
2024-05-21	18:00:00	59.1	70.5	--
2024-05-22	09:00:00	74.1	--	--
2024-05-22	10:00:00	74.9	--	--
2024-05-22	11:00:00	67.6	--	--
2024-05-22	12:00:00	70.4	--	--
2024-05-22	13:00:00	65.9	--	--
2024-05-22	14:00:00	72.9	--	--
2024-05-22	15:00:00	73.1	--	--
2024-05-22	16:00:00	70.4	--	--
2024-05-22	17:00:00	73.6	--	--
2024-05-22	18:00:00	58.0	71.8	--
2024-05-23	09:00:00	65.4	--	--
2024-05-23	10:00:00	69.1	--	--
2024-05-23	11:00:00	69.9	--	--
2024-05-23	12:00:00	67.7	--	--
2024-05-23	13:00:00	65.5	--	--
2024-05-23	14:00:00	65.6	--	--
2024-05-23	15:00:00	74.8	--	--
2024-05-23	16:00:00	71.2	--	--
2024-05-23	17:00:00	66.2	--	--
2024-05-23	18:00:00	62.3	69.2	--
2024-05-24	09:00:00	73.6	--	--
2024-05-24	10:00:00	65.0	--	--
2024-05-24	11:00:00	66.4	--	--
2024-05-24	12:00:00	65.0	--	--
2024-05-24	13:00:00	64.4	--	--
2024-05-24	14:00:00	65.5	--	--
2024-05-24	15:00:00	66.0	--	--
2024-05-24	16:00:00	70.1	--	--
2024-05-24	17:00:00	65.8	--	--
2024-05-24	18:00:00	66.9	68.0	--
2024-05-25	09:00:00	46.5	--	--
2024-05-25	10:00:00	54.1	--	--
2024-05-25	11:00:00	58.2	--	--
2024-05-25	12:00:00	53.4	--	--
2024-05-25	13:00:00	55.0	--	54.8

Location 3 – Time-history graph



- Daily noise trigger level (75 dB LAeq,0800-1800 hours, LAeq,0800-1300 hours)
- - - Hourly noise action level (78 dB LAeq, 1 hour)
- Noise level, LAeq, 1hour
- Daily noise level (dB LAeq,0800-1800 hours, LAeq,0800-1300 hours)
- Data unavailable

3.13 There was 100% data coverage at Location 3 during construction hours for the monitoring period covered by this report.

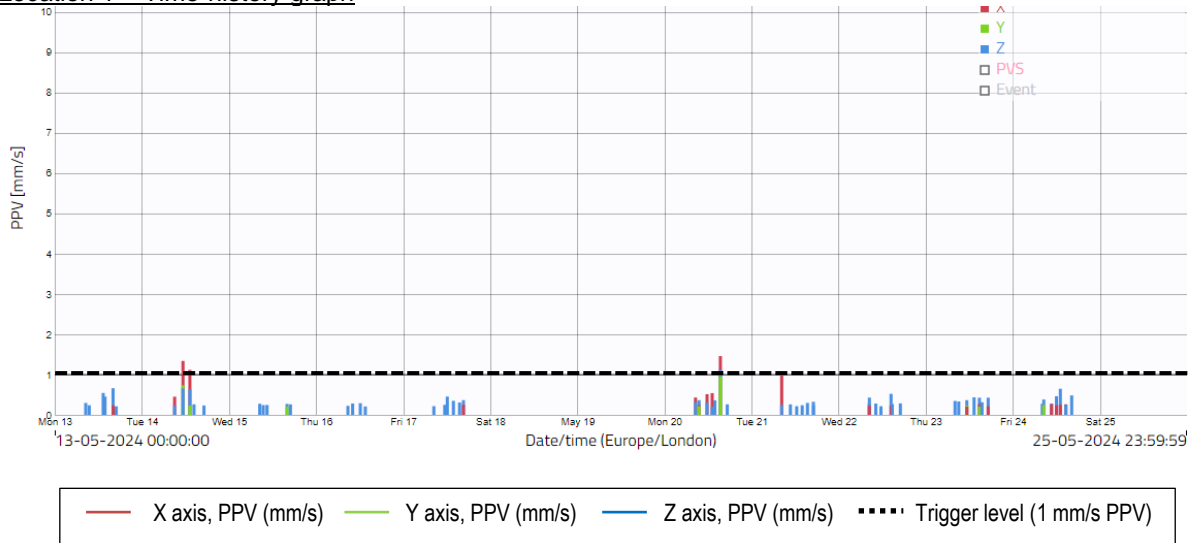
3.14 No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Vibration Monitoring Results

Location 1 – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L1	13/05/2024 to 25/05/2024	1	1.54	20/05/2024	15:25
		2	1.37	14/05/2024	11:20
Criteria mm/s PVS	Exceedances	3	1.13	14/05/2024	13:14
1.0	3	4	0.99	21/05/2024	08:19
		5	0.67	13/05/2024	16:04
		6	0.66	24/05/2024	13:06
		7	0.66	14/05/2024	13:40
		8	0.56	14/05/2024	13:08
		9	0.55	13/05/2024	13:21
		10	0.55	20/05/2024	13:10

Location 1 – Time-history graph



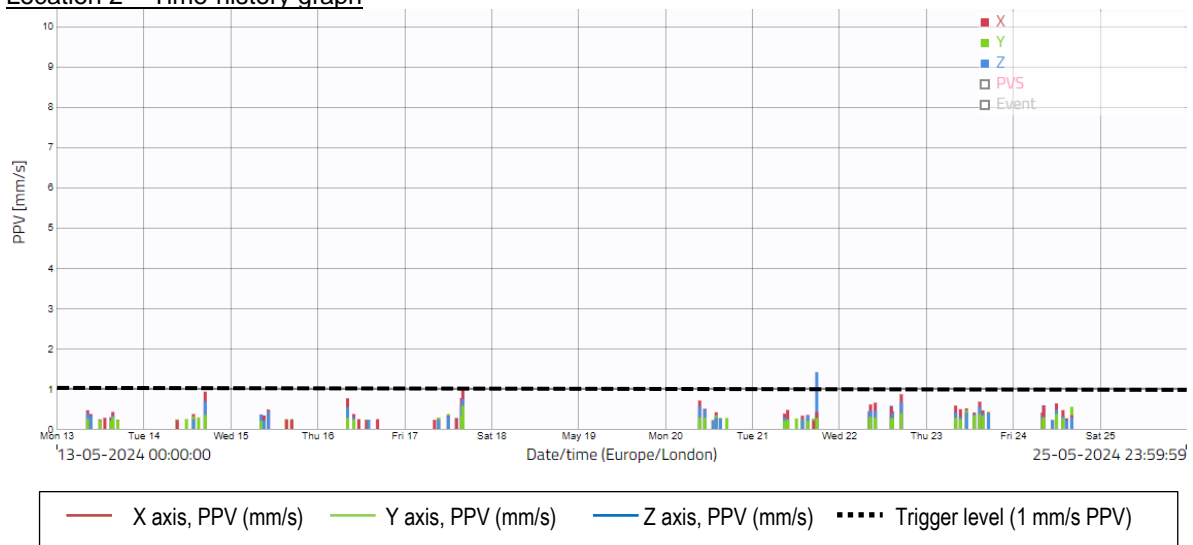
3.15 There was 100% data coverage at Location 1 during construction hours for the monitoring period covered by this report. There were three exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above. The highest recorded vibration level occurred on Monday 20th May at 15:25, with a recorded level of 1.5 mm/s PPV. It is worth noting from the raw data above that the exceedances were caused by individual, short-lived events, rather than continuous activity at this location. This will continue to be monitored.

3.16 In this location, it is likely that the residents opening and closing the main door to the residential building will cause occasional vibration spikes, given that the monitor is located on the same facade as the doors.

Location 2 – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L2	13/05/2024 to 25/05/2024	1	1.41	21/05/2024	17:52
		2	1.11	14/05/2024	17:03
Criteria mm/s PVS	Exceedances	3	1.09	17/05/2024	16:11
1.0	5	4	1.07	17/05/2024	16:09
		5	1.01	17/05/2024	16:56
		6	1.00	17/05/2024	16:47
		7	0.99	17/05/2024	16:26
		8	0.97	22/05/2024	17:12
		9	0.96	17/05/2024	16:39
		10	0.93	22/05/2024	17:13

Location 2 – Time-history graph

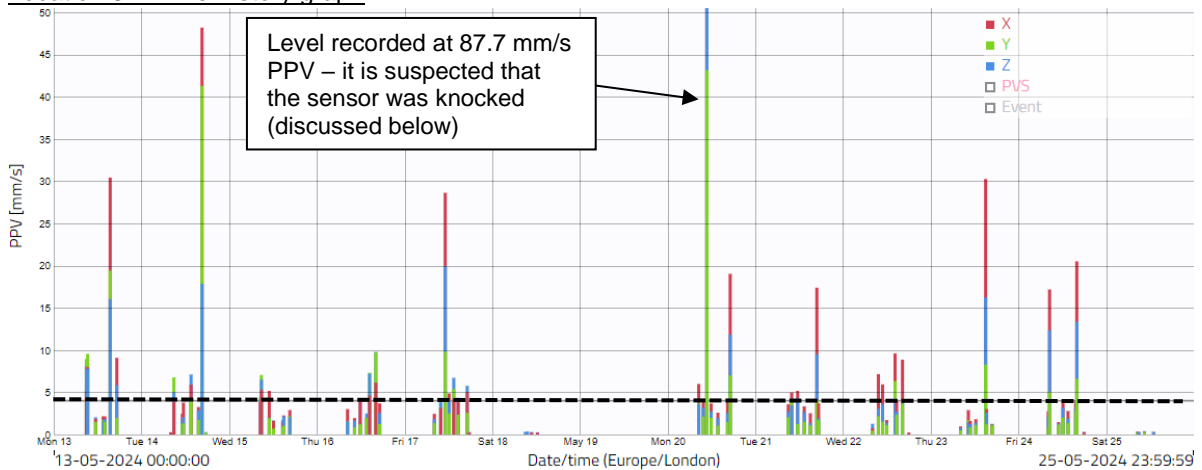


- 3.17 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report. There were five exceedances of the project vibration trigger level of 1.0 mm/s PPV, which are shown in the raw data and graph above. The highest recorded vibration level occurred on Tuesday 21st May at 17:52, with a recorded level of 1.4 mm/s PPV.
- 3.18 The site team confirmed that no site activity was taking place within the vicinity of this when several alerts listed above were recorded. This will continue to be monitored. In addition, it is our understanding that one of the residents behind the monitoring location has some form of workshop with power tools at the rear of their garden. Any operation of these tools could also generate vibration alerts.

Location 3 – Raw data

Measuring point:	Period:	Order	Value	Date	Time	Order	Value	Date	Time	Order	Value	Date	Time
Holloway - L3	13/05/2024 to 25/05/2024	1	87.71	20/05/2024	10:43	31	10.02	23/05/2024	14:24	61	6.30	17/05/2024	13:29
		2	55.11	14/05/2024	16:35	32	9.96	14/05/2024	13:35	62	6.27	22/05/2024	14:34
Criteria mm/s PVS	Exceedances	3	44.35	14/05/2024	16:33	33	9.88	13/05/2024	09:11	63	6.25	21/05/2024	11:34
4.0	163	4	35.39	13/05/2024	15:27	34	9.85	23/05/2024	14:26	64	6.24	23/05/2024	14:41
		5	35.05	23/05/2024	15:01	35	9.67	13/05/2024	09:25	65	6.20	13/05/2024	08:55
		6	31.59	17/05/2024	11:08	36	9.35	24/05/2024	08:29	66	6.05	17/05/2024	14:39
		7	24.51	24/05/2024	15:58	37	9.34	17/05/2024	11:03	67	6.03	17/05/2024	12:12
		8	22.89	23/05/2024	14:21	38	9.22	22/05/2024	16:16	68	5.98	21/05/2024	16:49
		9	21.88	13/05/2024	15:22	39	9.15	16/05/2024	14:26	69	5.86	20/05/2024	16:40
		10	21.87	20/05/2024	17:07	40	9.04	23/05/2024	15:00	70	5.76	15/05/2024	08:33
		11	20.55	23/05/2024	14:20	41	8.95	24/05/2024	08:22	71	5.74	13/05/2024	08:44
		12	20.27	24/05/2024	08:31	42	8.72	13/05/2024	09:04	72	5.73	23/05/2024	14:07
		13	19.58	17/05/2024	10:48	43	8.70	22/05/2024	14:30	73	5.71	22/05/2024	16:18
		14	18.73	21/05/2024	16:50	44	8.46	13/05/2024	09:05	74	5.69	14/05/2024	16:44
		15	18.01	23/05/2024	15:05	45	8.34	14/05/2024	08:53	75	5.69	14/05/2024	08:54
		16	17.67	20/05/2024	10:42	46	8.17	15/05/2024	08:50	76	5.67	14/05/2024	08:21
		17	17.18	23/05/2024	14:08	47	7.68	13/05/2024	09:03	77	5.61	21/05/2024	09:57
		18	15.06	23/05/2024	14:27	48	7.66	21/05/2024	15:52	78	5.61	21/05/2024	09:52
		19	14.84	23/05/2024	14:50	49	7.61	22/05/2024	09:40	79	5.56	23/05/2024	14:09
		20	14.33	23/05/2024	14:28	50	7.60	13/05/2024	09:16	80	5.55	15/05/2024	08:55
		21	14.02	16/05/2024	16:08	51	7.52	17/05/2024	13:28	81	5.55	24/05/2024	08:21
		22	13.59	24/05/2024	08:30	52	7.30	17/05/2024	17:09	82	5.55	21/05/2024	11:19
		23	12.48	13/05/2024	15:16	53	7.28	24/05/2024	17:15	83	5.54	13/05/2024	08:39
		24	12.07	13/05/2024	15:21	54	7.19	24/05/2024	08:45	84	5.52	17/05/2024	10:50
		25	11.66	13/05/2024	09:17	55	6.97	22/05/2024	10:49	85	5.48	17/05/2024	09:54
		26	11.53	23/05/2024	14:25	56	6.96	24/05/2024	08:18	86	5.43	16/05/2024	11:52
		27	11.49	22/05/2024	14:14	57	6.61	17/05/2024	13:26	87	5.33	15/05/2024	10:59
		28	11.15	13/05/2024	08:56	58	6.52	20/05/2024	16:37	88	5.32	17/05/2024	12:13
		29	10.82	13/05/2024	17:16	59	6.44	20/05/2024	08:30	89	5.30	14/05/2024	13:36
		30	10.52	23/05/2024	14:06	60	6.43	13/05/2024	08:27	90	5.26	21/05/2024	11:25

Location 3 – Time-history graph



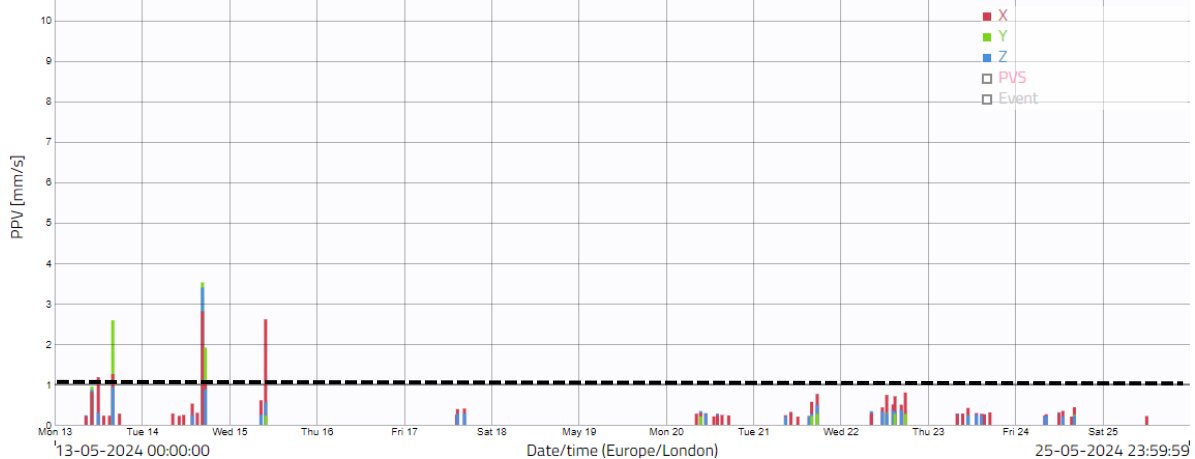
3.19 There was 100% data coverage at Location 3 during construction hours for the monitoring period covered by this report. There were 163 exceedances of the project vibration trigger level of 4.0 mm/s PPV, which are shown in the raw data and graph above. The highest recorded vibration level occurred on Monday 20 May at 10:43, with a recorded level of 87.7 mm/s PPV – it is highly likely that the monitor was knocked in this instance, given the fact that no other similar levels were recorded on the same day. The site team confirmed that some of the remaining exceedances are likely to have been caused by excavation works at the location of the site access road along this boundary of the site. It has been confirmed that this excavation work has since been completed.

- 3.20 The activity taking place at this location will continue to be monitored; however, it is our understanding that no vibration complaints were received due to the work described above.
- 3.21 As above, it is understood that a significant number of exceedances were likely to have been caused onsite vehicles moving material within the vicinity of the monitor – this has been confirmed by the site team. It is possible that the higher vibration levels recorded over this period were also caused by vehicle movements (i.e. when a lorry drives over an uneven part of ground near the monitor, a high vibration level can be recorded).
- 3.22 However, due to the proximity between the vibration sensor and the nearest sensitive receptor, it follows that the vibration levels at this position would have been lower than shown at the sensor location.
- 3.23 Cass Allen will continue to review noise and vibration emissions and advise on any further practicable measures to minimise vibration.

Location 4 – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L4	13/05/2024 to 25/05/2024	1	3.65	14/05/2024	16:38
		2	3.65	14/05/2024	16:24
Criteria mm/s PVS	Exceedances	3	2.86	14/05/2024	16:01
1.0	15	4	2.82	13/05/2024	15:59
		5	2.77	13/05/2024	15:38
		6	2.67	15/05/2024	09:59
		7	2.18	14/05/2024	17:25
		8	2.07	14/05/2024	16:44
		9	1.29	14/05/2024	16:17
		10	1.21	13/05/2024	12:00
		11	1.18	13/05/2024	10:14
		12	1.13	14/05/2024	16:26
		13	1.13	14/05/2024	17:07
		14	1.08	14/05/2024	16:25
		15	1.06	14/05/2024	16:36
		16	0.98	14/05/2024	17:26
		17	0.95	14/05/2024	16:57
		18	0.90	14/05/2024	17:03
		19	0.84	22/05/2024	17:49
		20	0.83	13/05/2024	10:12
		21	0.80	21/05/2024	17:36
		22	0.78	22/05/2024	12:42
		23	0.77	14/05/2024	17:06
		24	0.76	22/05/2024	14:58
		25	0.74	22/05/2024	14:42
		26	0.72	14/05/2024	16:56
		27	0.70	21/05/2024	17:51
		28	0.69	21/05/2024	17:16
		29	0.67	21/05/2024	17:46
		30	0.65	14/05/2024	17:12

Location 4 – Time-history graph



- 3.24 There was 100% data coverage at Location 4 during construction hours for the monitoring period covered by this report. There were two exceedances of the project vibration trigger level of 1.0 mm/s PPV, which are shown in the raw data and graph above. The highest recorded vibration level occurred on Tuesday 14 May at 16:38, with a recorded level of 3.7 mm/s PPV. Although this recorded level is a relatively small exceedance of the vibration trigger level, this will continue to be monitored. Additionally, the site team confirmed that no site activity was taking place within the vicinity of this when several alerts listed above were recorded. This will continue to be monitored.
- 3.25 This monitor was relocated from the residential dwelling Trecastle Way to within the site boundary on Friday 17th May, as requested by the resident. The updated location for this monitor is shown in the latest version of the Construction Monitoring Non-Technical Summary document (ref. TN01-22405-R4 dated 5th June 2024) for the NTS website. Due to this monitor now being positioned closer to the site activity, it follows that vibration readings from Friday 17th May onwards are likely to be higher than previously recorded. Although no exceedances of the vibration trigger level have since been recorded, this will continue to be monitored.