

Holloway Park, London

Construction Monitoring Report

Client: London Square
Ref: CM68-22405-R0
Date: 16 January 2024
Note by: Adam Bamford, BSc MIOA DipIOA, Principal Acoustics Consultant

1. INTRODUCTION

1.1 This Technical Note sets out results of the construction monitoring being carried out at the above between Monday 15th January and Saturday 20th January 2024. The monitoring is being carried out in accordance with the methodology set out in the Cass Allen response (reference LR03-22405-R0 dated 27 October 2023) to a S60 warning letter issued to Downwell Demolition Ltd.

2. WEEKLY ACTIVITIES

2.1 The following activities have been carried out onsite this week:

Downwell

- Maintenance of site monitors
- Maintenance of site fencing
- Maintenance of site roadworks

Horizon

- Ground remediation.
- Removal of non-hazardous materials
- Picking station screening works.
- Crushing

Pure logistics

- Installation of site welfare cabins

Landmark

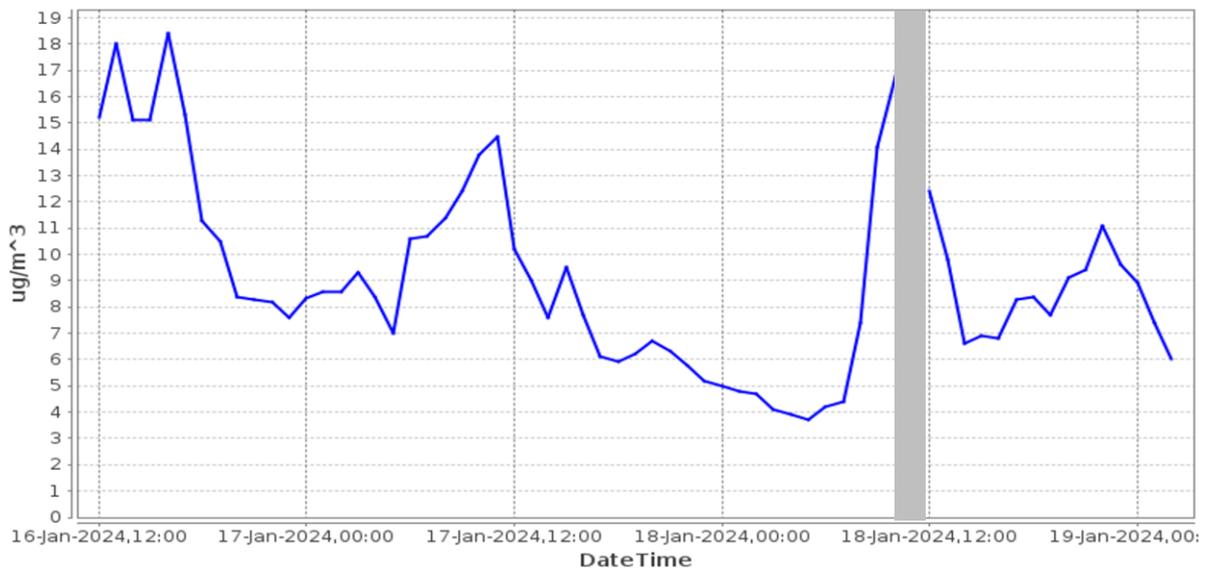
- Working on the sample panel

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

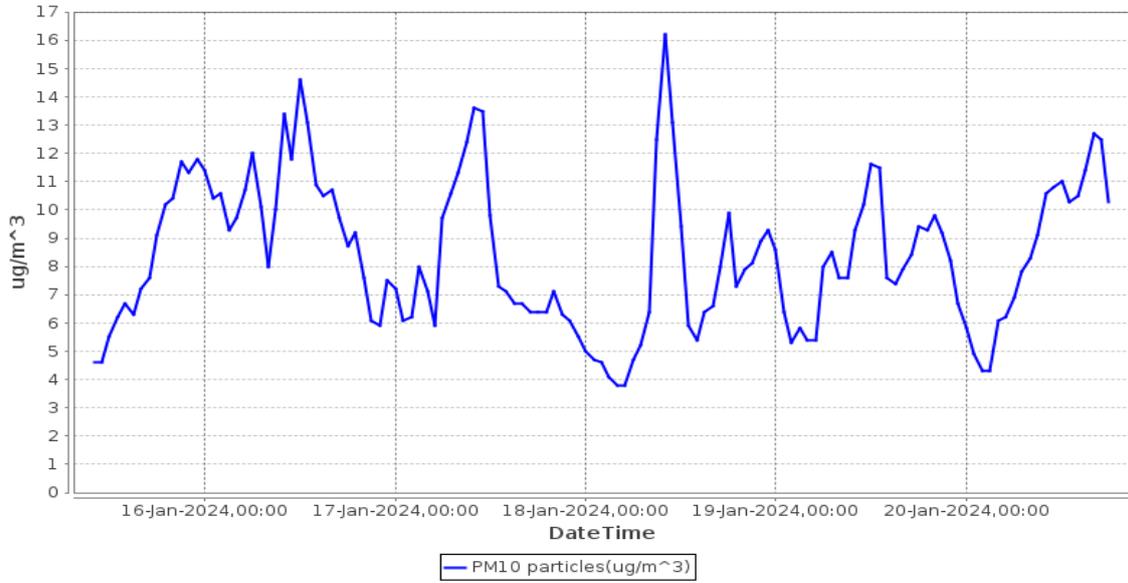
Location 1



- 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 47% data coverage at Location 1 for the monitoring period covered by this report. Cass Allen replaced a faulty cable on the monitor and uploaded what data had been stored locally by the monitor. The missing data is likely to have been caused by battery outages. No exceedances of the project dust criteria of 190 micrograms per cubic meter were recorded during the monitoring period covered by this report.

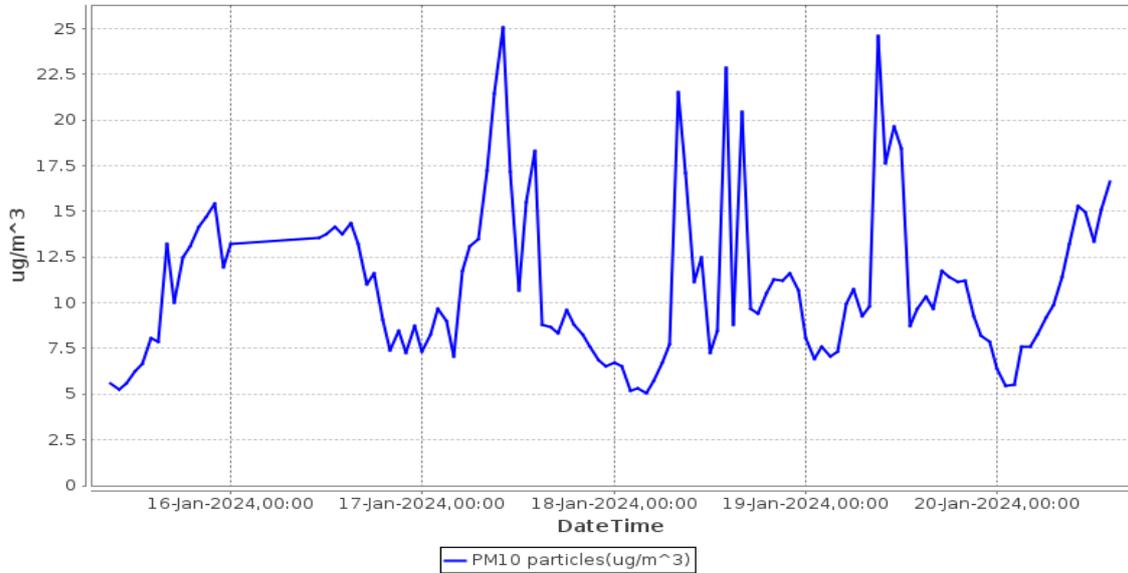
Location 2



- 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

3.3 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report. 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



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

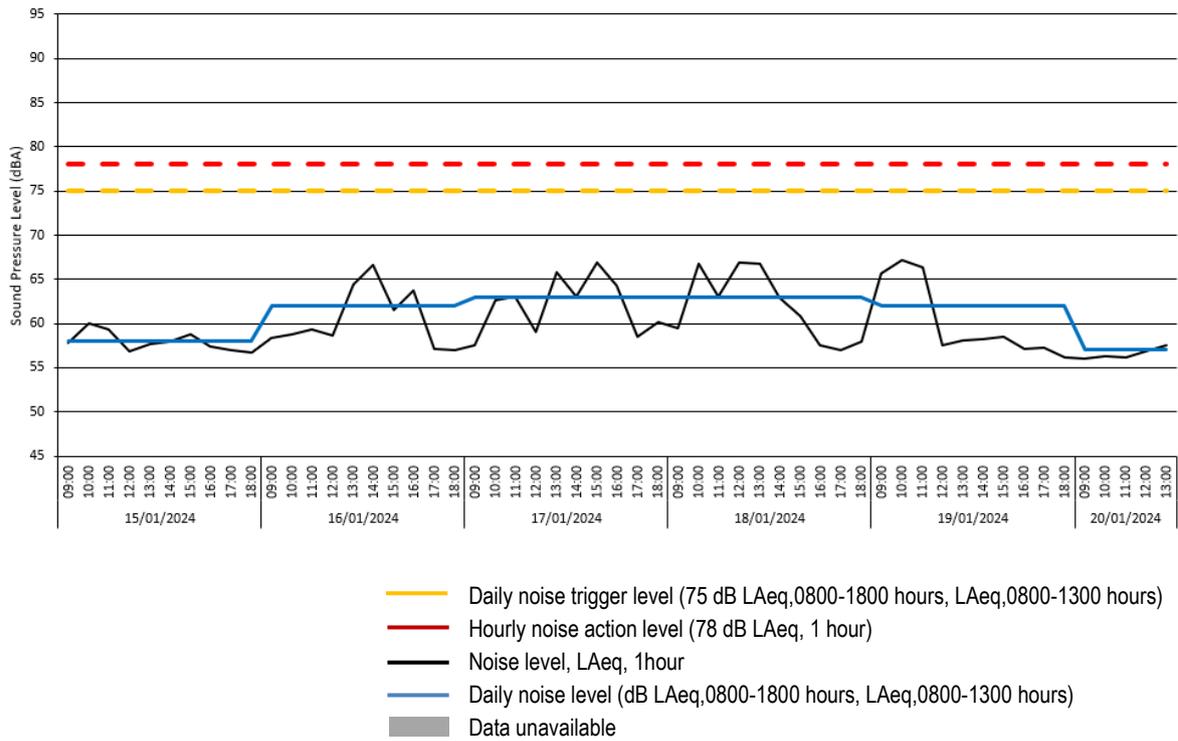
Noise Monitoring Results

Location 1 – Raw Data

Broadband Results

Date [YYYY-MM-DD]	Time [hh:mm:ss]	LAeq(60min) [dB]	LAeq(7hr) [dB]	LAeq(10hr) [dB]	LAeq(5hr) [dB]
2024-01-15	09:00:00	57.8	--	--	--
2024-01-15	10:00:00	60.0	--	--	--
2024-01-15	11:00:00	59.3	--	--	--
2024-01-15	12:00:00	56.9	--	--	--
2024-01-15	13:00:00	57.7	--	--	--
2024-01-15	14:00:00	58.0	--	--	--
2024-01-15	15:00:00	58.8	--	--	--
2024-01-15	16:00:00	57.4	--	--	--
2024-01-15	17:00:00	57.0	--	--	--
2024-01-15	18:00:00	56.7	--	58.1	--
2024-01-16	09:00:00	58.4	--	--	--
2024-01-16	10:00:00	58.8	--	--	--
2024-01-16	11:00:00	59.3	--	--	--
2024-01-16	12:00:00	58.7	--	--	--
2024-01-16	13:00:00	64.4	--	--	--
2024-01-16	14:00:00	66.6	--	--	--
2024-01-16	15:00:00	61.5	--	--	--
2024-01-16	16:00:00	63.7	--	--	--
2024-01-16	17:00:00	57.1	--	--	--
2024-01-16	18:00:00	57.0	--	61.8	--
2024-01-17	09:00:00	57.5	--	--	--
2024-01-17	10:00:00	62.7	--	--	--
2024-01-17	11:00:00	63.1	--	--	--
2024-01-17	12:00:00	59.0	--	--	--
2024-01-17	13:00:00	65.8	--	--	--
2024-01-17	14:00:00	63.1	--	--	--
2024-01-17	15:00:00	66.9	--	--	--
2024-01-17	16:00:00	64.3	--	--	--
2024-01-17	17:00:00	58.5	--	--	--
2024-01-17	18:00:00	60.1	--	63.1	--
2024-01-18	09:00:00	59.4	--	--	--
2024-01-18	10:00:00	66.7	--	--	--
2024-01-18	11:00:00	63.0	--	--	--
2024-01-18	12:00:00	66.9	--	--	--
2024-01-18	13:00:00	66.8	--	--	--
2024-01-18	14:00:00	62.9	--	--	--
2024-01-18	15:00:00	60.8	--	--	--
2024-01-18	16:00:00	57.5	--	--	--
2024-01-18	17:00:00	57.0	--	--	--
2024-01-18	18:00:00	57.9	--	63.4	--
2024-01-19	09:00:00	65.6	--	--	--
2024-01-19	10:00:00	67.2	--	--	--
2024-01-19	11:00:00	66.3	--	--	--
2024-01-19	12:00:00	57.5	--	--	--
2024-01-19	13:00:00	58.1	--	--	--
2024-01-19	14:00:00	58.2	--	--	--
2024-01-19	15:00:00	58.5	--	--	--
2024-01-19	16:00:00	57.1	--	--	--
2024-01-19	17:00:00	57.2	--	--	--
2024-01-19	18:00:00	56.2	--	62.4	--
2024-01-20	09:00:00	56.0	--	--	--
2024-01-20	10:00:00	56.3	--	--	--
2024-01-20	11:00:00	56.2	--	--	--
2024-01-20	12:00:00	56.9	--	--	--
2024-01-20	13:00:00	57.6	--	--	56.6

Location 1 – Time History Data

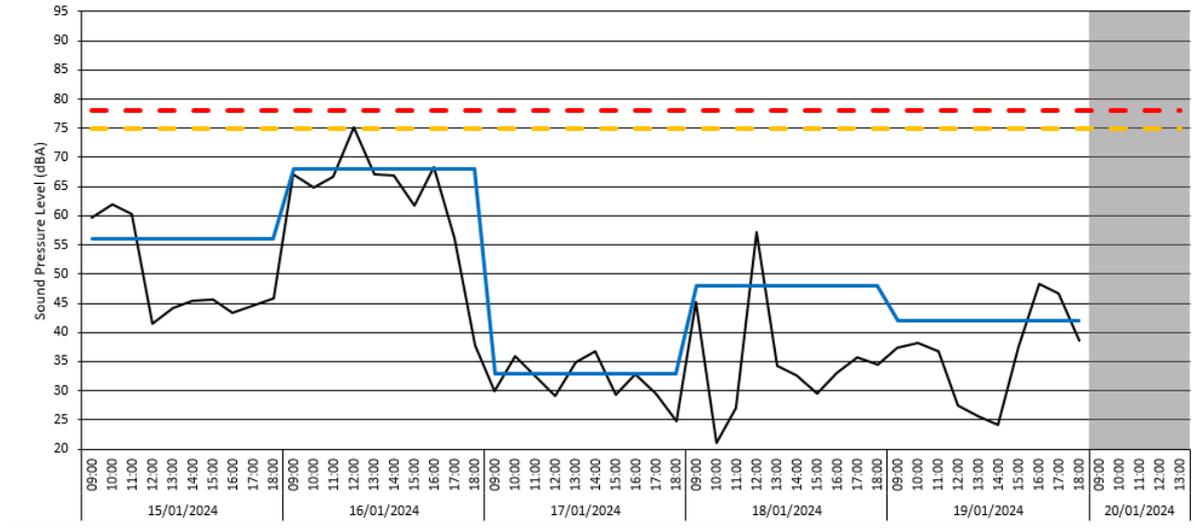


3.5 There was 100% data coverage at Location 1 for the monitoring period covered by this report. No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Location 2 – Raw Data

# Broadband Results	Date	Time	LAeq(60min)	LAeq(10hr)	LAeq(5hr)
	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]
	2024-01-15	09:00:00	59.6	--	--
	2024-01-15	10:00:00	62.0	--	--
	2024-01-15	11:00:00	60.3	--	--
	2024-01-15	12:00:00	41.5	--	--
	2024-01-15	13:00:00	44.2	--	--
	2024-01-15	14:00:00	45.5	--	--
	2024-01-15	15:00:00	45.6	--	--
	2024-01-15	16:00:00	43.4	--	--
	2024-01-15	17:00:00	44.5	--	--
	2024-01-15	18:00:00	45.8	55.7	--
	2024-01-16	09:00:00	67.2	--	--
	2024-01-16	10:00:00	64.9	--	--
	2024-01-16	11:00:00	66.7	--	--
	2024-01-16	12:00:00	75.2	--	--
	2024-01-16	13:00:00	67.1	--	--
	2024-01-16	14:00:00	67.0	--	--
	2024-01-16	15:00:00	61.7	--	--
	2024-01-16	16:00:00	68.3	--	--
	2024-01-16	17:00:00	56.1	--	--
	2024-01-16	18:00:00	37.8	68.1	--
	2024-01-17	09:00:00	30.0	--	--
	2024-01-17	10:00:00	36.0	--	--
	2024-01-17	11:00:00	32.7	--	--
	2024-01-17	12:00:00	29.0	--	--
	2024-01-17	13:00:00	34.9	--	--
	2024-01-17	14:00:00	36.8	--	--
	2024-01-17	15:00:00	29.4	--	--
	2024-01-17	16:00:00	32.8	--	--
	2024-01-17	17:00:00	29.5	--	--
	2024-01-17	18:00:00	24.7	32.9	--
	2024-01-18	09:00:00	45.3	--	--
	2024-01-18	10:00:00	21.1	--	--
	2024-01-18	11:00:00	27.0	--	--
	2024-01-18	12:00:00	57.2	--	--
	2024-01-18	13:00:00	34.2	--	--
	2024-01-18	14:00:00	32.6	--	--
	2024-01-18	15:00:00	29.5	--	--
	2024-01-18	16:00:00	33.1	--	--
	2024-01-18	17:00:00	35.7	--	--
	2024-01-18	18:00:00	34.4	47.6	--
	2024-01-19	09:00:00	37.4	--	--
	2024-01-19	10:00:00	38.2	--	--
	2024-01-19	11:00:00	36.8	--	--
	2024-01-19	12:00:00	27.4	--	--
	2024-01-19	13:00:00	25.6	--	--
	2024-01-19	14:00:00	24.2	--	--
	2024-01-19	15:00:00	37.6	--	--
	2024-01-19	16:00:00	48.4	--	--
	2024-01-19	17:00:00	46.6	--	--
	2024-01-19	18:00:00	38.6	41.6	--

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, 1hour
- Daily noise level (dB LAeq, 0800-1800 hours, LAeq, 0800-1300 hours)
- Data unavailable

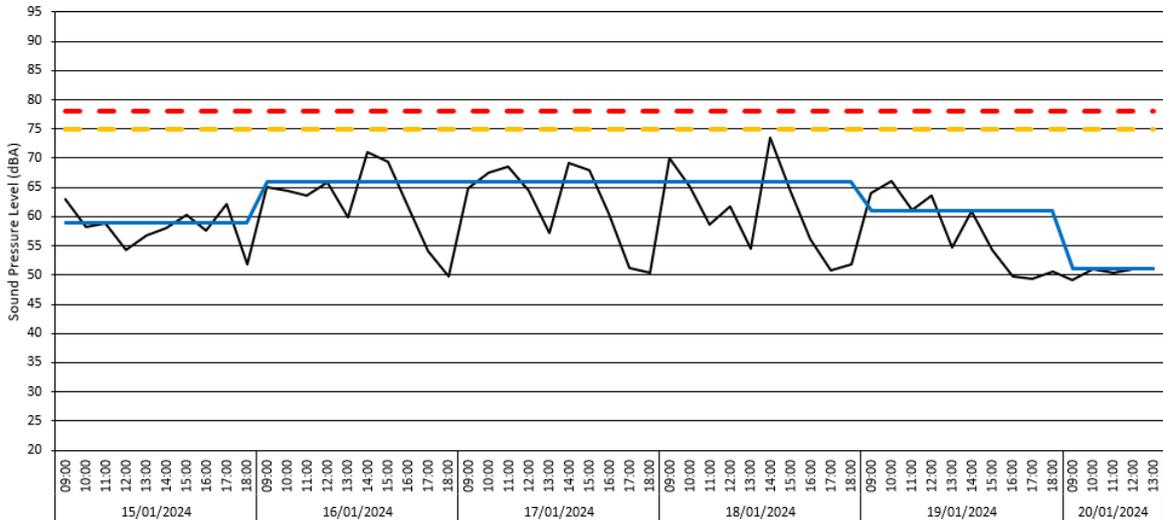
3.6 There was 91% data coverage at Location 1 for the monitoring period covered by this report. No data was collected on Saturday as the battery was fully depleted. No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Location 3 – Raw Data

Broadband Results

Date [YYYY-MM-DD]	Time [hh:mm:ss]	LAeq(60min) [dB]	LAeq(10hr) [dB]	LAeq(5hr) [dB]
2024-01-15	09:00:00	63.0	--	--
2024-01-15	10:00:00	58.3	--	--
2024-01-15	11:00:00	58.8	--	--
2024-01-15	12:00:00	54.4	--	--
2024-01-15	13:00:00	56.7	--	--
2024-01-15	14:00:00	58.0	--	--
2024-01-15	15:00:00	60.3	--	--
2024-01-15	16:00:00	57.6	--	--
2024-01-15	17:00:00	62.2	--	--
2024-01-15	18:00:00	51.9	59.2	--
2024-01-16	09:00:00	65.1	--	--
2024-01-16	10:00:00	64.4	--	--
2024-01-16	11:00:00	63.5	--	--
2024-01-16	12:00:00	65.8	--	--
2024-01-16	13:00:00	59.9	--	--
2024-01-16	14:00:00	71.1	--	--
2024-01-16	15:00:00	69.3	--	--
2024-01-16	16:00:00	61.9	--	--
2024-01-16	17:00:00	54.1	--	--
2024-01-16	18:00:00	49.7	65.6	--
2024-01-17	09:00:00	64.8	--	--
2024-01-17	10:00:00	67.6	--	--
2024-01-17	11:00:00	68.6	--	--
2024-01-17	12:00:00	64.5	--	--
2024-01-17	13:00:00	57.2	--	--
2024-01-17	14:00:00	69.1	--	--
2024-01-17	15:00:00	68.0	--	--
2024-01-17	16:00:00	60.4	--	--
2024-01-17	17:00:00	51.1	--	--
2024-01-17	18:00:00	50.3	65.5	--
2024-01-18	09:00:00	69.9	--	--
2024-01-18	10:00:00	65.0	--	--
2024-01-18	11:00:00	58.7	--	--
2024-01-18	12:00:00	61.8	--	--
2024-01-18	13:00:00	54.6	--	--
2024-01-18	14:00:00	73.6	--	--
2024-01-18	15:00:00	64.3	--	--
2024-01-18	16:00:00	56.1	--	--
2024-01-18	17:00:00	50.7	--	--
2024-01-18	18:00:00	51.9	66.2	--
2024-01-19	09:00:00	64.0	--	--
2024-01-19	10:00:00	66.0	--	--
2024-01-19	11:00:00	61.1	--	--
2024-01-19	12:00:00	63.5	--	--
2024-01-19	13:00:00	54.7	--	--
2024-01-19	14:00:00	61.0	--	--
2024-01-19	15:00:00	54.4	--	--
2024-01-19	16:00:00	49.7	--	--
2024-01-19	17:00:00	49.4	--	--
2024-01-19	18:00:00	50.6	60.9	--
2024-01-20	09:00:00	49.2	--	--
2024-01-20	10:00:00	50.9	--	--
2024-01-20	11:00:00	50.4	--	--
2024-01-20	12:00:00	51.0	--	--
2024-01-20	13:00:00	51.0	--	50.6

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, 1 hour
- Daily noise level (dB LAeq, 0800-1800 hours, LAeq, 0800-1300 hours)
- Data unavailable

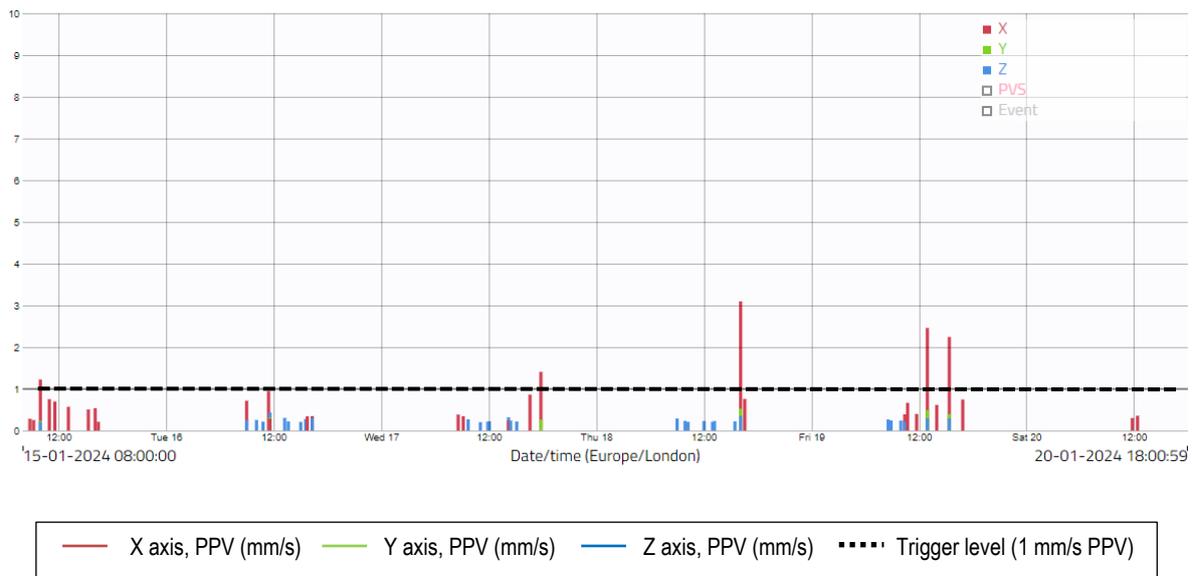
3.7 There was 100% data coverage at Location 3 for the monitoring period covered by this report. No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Vibration Monitoring Results

Location 1 – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L1	15/01/2024 to 20/01/2024	1	3.14	18/01/2024	16:06
		2	2.51	19/01/2024	12:56
Criteria mm/s PVS	Exceedances	3	2.28	19/01/2024	15:23
1	5	4	1.43	17/01/2024	17:46
		5	1.25	15/01/2024	09:58
		6	0.95	16/01/2024	11:27

Location 1 – Time-history graph

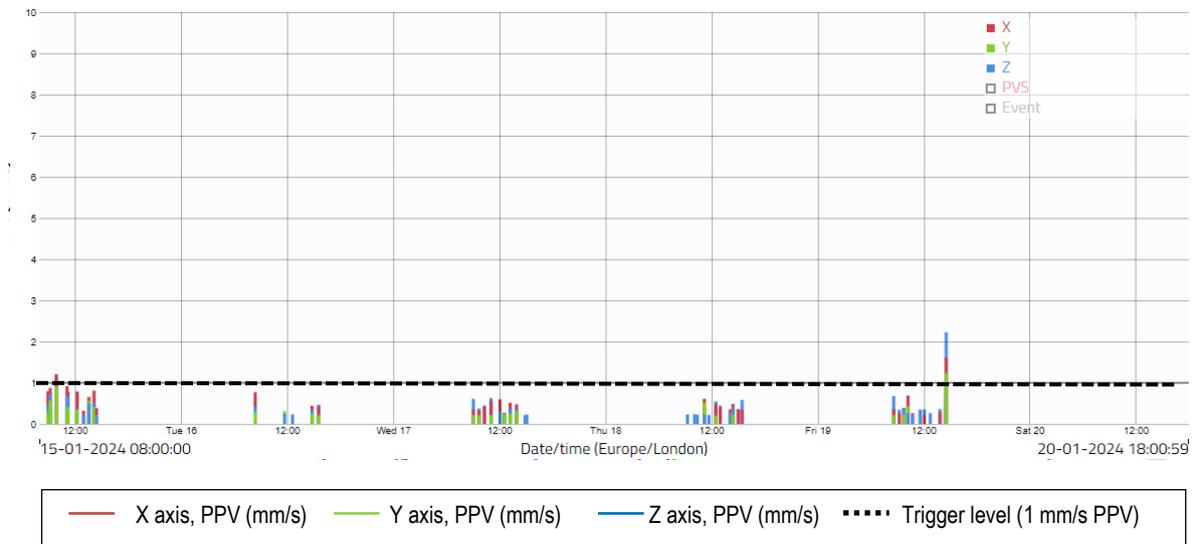


3.8 There was 100% data coverage at Location 1 for the monitoring period covered by this report. There were five exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above. The project team has confirmed that no active demolition works have taken place in this area of the site since 24th October and therefore the exceedances are believed to be due to non-construction related activities. 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	15/01/2024 to 20/01/2024	1	2.60	19/01/2024	14:33
		2	1.78	19/01/2024	14:38
Criteria mm/s PVS	Exceedances	3	1.47	15/01/2024	09:55
1	6	4	1.07	19/01/2024	14:37
		5	1.03	15/01/2024	11:07
		6	1.02	15/01/2024	09:13
		7	0.89	15/01/2024	10:16

Location 2 – Time-history graph

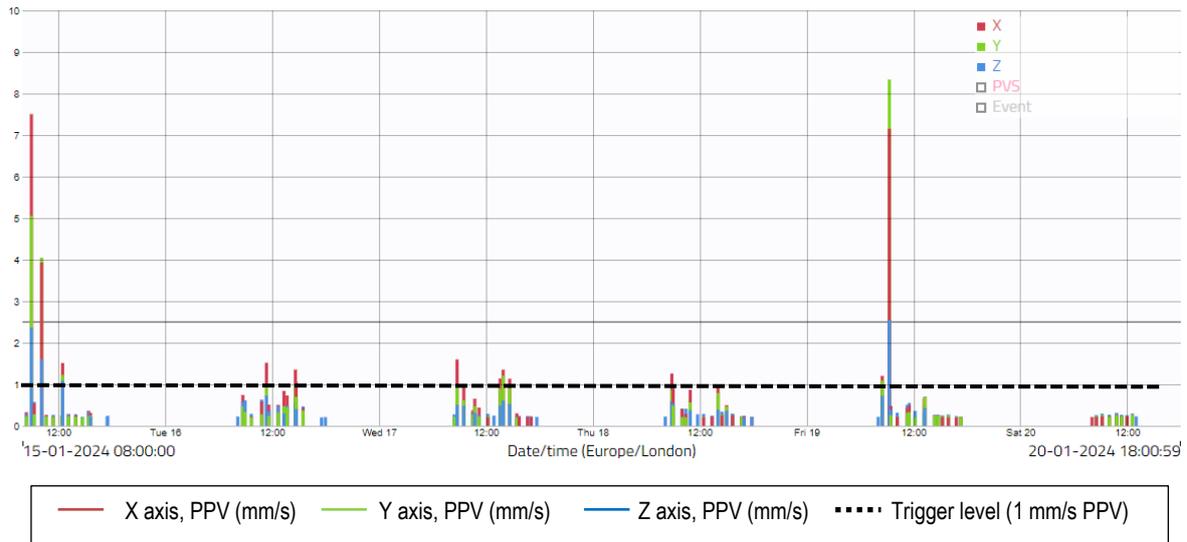


3.9 There was 100% data coverage at Location 2 for the monitoring period covered by this report. There were six exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above. The project team has confirmed that no active demolition works have taken place in this area of the site since 24th October and therefore the exceedances are believed to be due to non-construction related activities. In this location, it is likely that a combination of site operatives changing batteries and weather-related events (i.e. rainfall or heavy gusts) are responsible for the recorded exceedances. 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
Holloway - L3	15/01/2024 to 20/01/2024	1	10.95	19/01/2024	09:17
		2	8.96	15/01/2024	08:59
Criteria mm/s PVS	Exceedances	3	4.81	15/01/2024	10:08
1	37	4	2.04	15/01/2024	12:29
		5	1.89	17/01/2024	08:46
		6	1.77	17/01/2024	13:57
		7	1.64	16/01/2024	11:17
		8	1.60	16/01/2024	14:37
		9	1.58	19/01/2024	08:30
		10	1.45	17/01/2024	14:38
		11	1.35	17/01/2024	13:54
		12	1.33	18/01/2024	08:53
		13	1.30	17/01/2024	13:36
		14	1.27	17/01/2024	13:52
		15	1.27	17/01/2024	14:10
		16	1.25	17/01/2024	13:39
		17	1.22	16/01/2024	14:43
		18	1.22	18/01/2024	08:33
		19	1.16	17/01/2024	13:31
		20	1.14	17/01/2024	14:40
		21	1.14	18/01/2024	14:04
		22	1.13	15/01/2024	12:29
		23	1.12	16/01/2024	14:23
		24	1.12	17/01/2024	13:41
		25	1.12	17/01/2024	13:29
		26	1.11	18/01/2024	14:02
		27	1.10	17/01/2024	13:16
		28	1.09	17/01/2024	09:32
		29	1.08	16/01/2024	14:33
		30	1.06	17/01/2024	14:30
		31	1.05	18/01/2024	09:01
		32	1.04	16/01/2024	11:20
		33	1.03	18/01/2024	08:51
		34	1.02	17/01/2024	14:17
		35	1.02	16/01/2024	11:21
		36	1.01	18/01/2024	08:33
		37	1.01	16/01/2024	14:30
		38	1.00	16/01/2024	14:41

Location 3 – Time-history graph

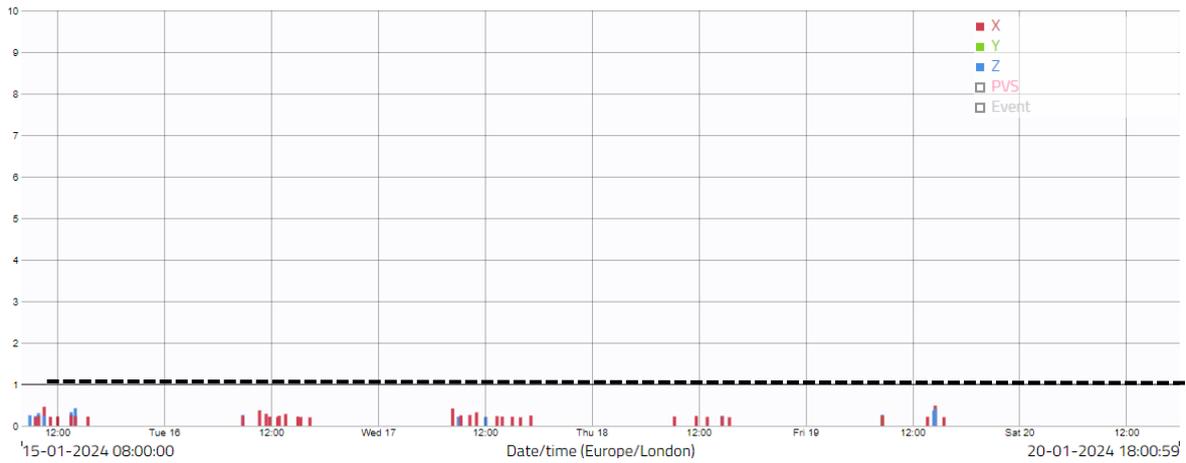


3.10 There was 100% data coverage at Location 3 for the monitoring period covered by this report. There were 37 exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above. The three largest exceedances recorded in the raw data overpage (10.95 mm/s on the 19th January and 8.96 mm/s and 4.81 mm/s on the 15th January) were caused by site operatives changing batteries and can therefore be disregarded.

Location 4 – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L4	15/01/2024 to 20/01/2024	1	0.60	19/01/2024	14:33
		2	0.51	19/01/2024	14:38
Criteria mm/s PVS	Exceedances	3	0.47	15/01/2024	10:32
1	0	4	0.43	15/01/2024	14:02
		5	0.42	17/01/2024	08:23

Location 4 – Time-history graph



3.11 There was 100% data coverage at Location 4 for the monitoring period covered by this report. There were no exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above.