
High Speed Rail
(London-West Midlands)
Noise! «^a ¥«® £&j ¬«®
National Temperance Hospital
October' 6





Department for Transport

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High Speed Two (HS2) Limited,
Two Snowhill,
Snow Hill Queensway,
Birmingham B4 6GA

Telephone: 020 7944 4908

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

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Unattended Baseline Noise Monitoring Report

Period: 10 October 2016 to 30 October 2016

Project No EEMC/065/2016
Report No. EEMC-NTH-065.001 – NTH, HS2 Rev 00
Client: Keltbray Limited
Title: EEMC/065-001-NTH, HS2 - Unattended Noise Monitoring Report No.01
Period: 10 October 2016 – 30 October 2016

Details of Noise Monitor at Receptor Point (RP)

ID Reference	RP1
Location	Hampstead Rd
Instrument:	Rion NL-52
Serial Number:	00453872
Installation Date:	28/10/2015
Calibration date:	03/10/2016 UCRT16/1301

Map of monitoring location



Photograph of monitor



1.0 Introduction

European Environmental Monitoring and Consultancy (EEMC) Limited is appointed by Keltbray to undertake environmental monitoring during the demolition works phase at the National Temperance Hospital project located in the London Borough of Camden (LBC). Noise monitoring equipment have been installed at three locations and measured noise levels have been recorded continuously.

This report presents the baseline noise data measured and recorded in the period 10 October 2016 to 30 October 2016. This report should be read with the CoPA section 61 Prior Consent Application submitted to LBC for the National Temperance Hospital demolition phase.

Demolition works are limited to 08:00-18:00 hours Monday to Friday and 08:00-13:00 hours on Saturday with no works on Sundays or public holidays.

This report presents the noise levels measured and recorded at position RP1 prior to demolition activities taking place.

The site is in the London Borough of Camden and the surrounding area is populated by residential blocks, various types of businesses such as hotels, a community center, the Maria Fidelis School and UCL, all of which could be affected by demolition and the associated activities.

2.0 Instrumentation

All noise monitoring units are Rion NL-52 Class 1 noise monitoring systems, housed in weather proof environmental protected cases with an all-weather protected remote microphone (see photo).

3.0 Methodology

Keltbray requested (EEMC) Limited to undertake unattended noise monitoring at three agreed locations around the site, including the baseline noise levels prior to demolition. The monitoring locations were agreed with the Environmental Health Officer (EHO) of Camden. The unattended baseline noise monitoring presented in this report was undertaken while no noisy operations were ongoing on site. All results are recorded (LAeqT) by data logging equipment within each unit.

Noise levels have been recorded for the measurement periods of 08.00 to 18.00 Monday to Friday and 08.00 to 13.00 on Saturdays. These times have been agreed with LBC to be the core hours within which noisy demolition activities can proceed.

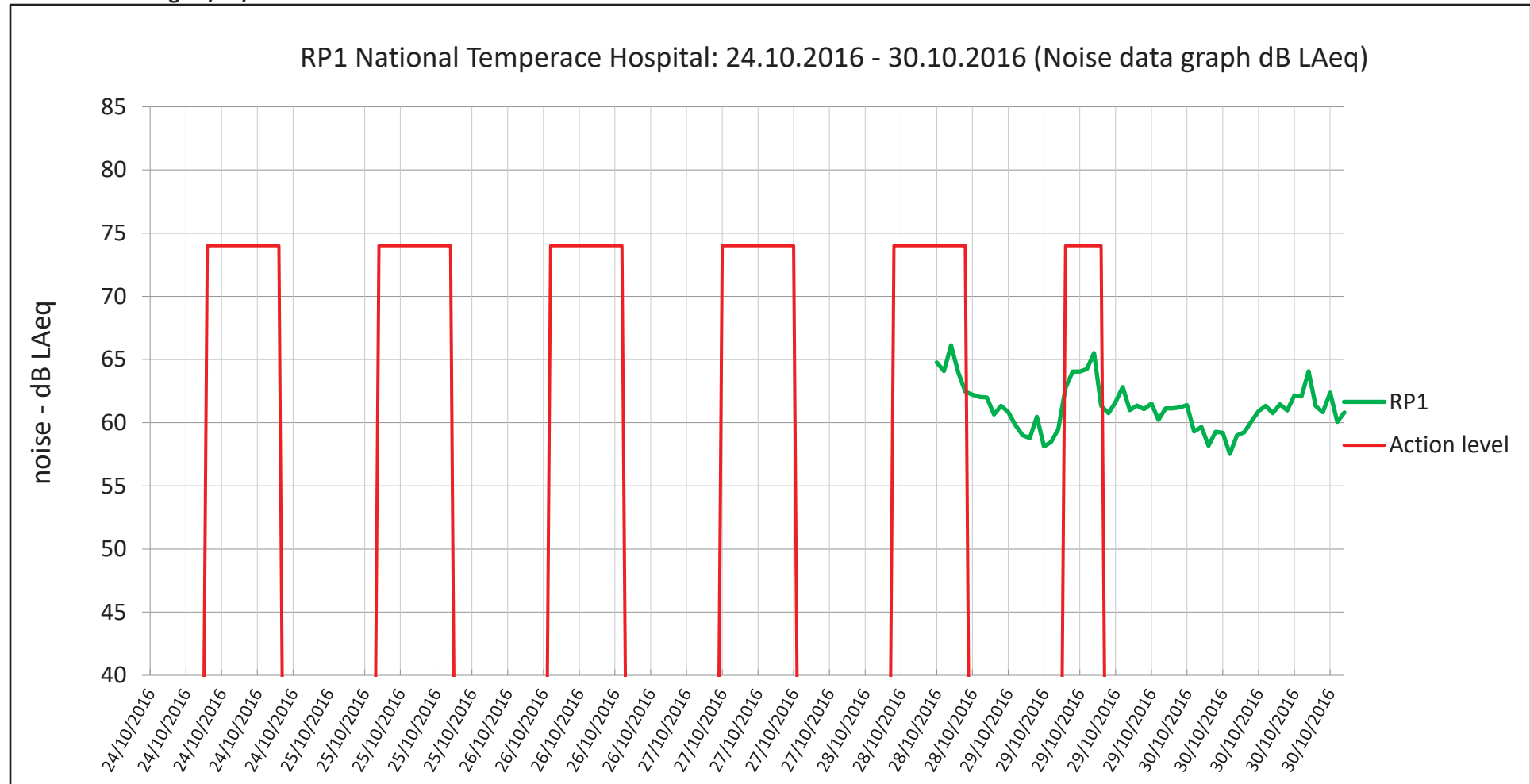
The measured unattended baseline noise levels can be used to compare with measured and recorded noise levels during the demolition activities.

4.0 Measurement Results

The recorded baseline noise measurements in this period are presented as graphs in section 5.0 of this report using LAeq1hour data points.

5.0 Noise Monitoring Graphs

RP1 Week ending 30/10/16



6.0 Discussion

Unattended ambient noise monitoring has been undertaken for pre-demolition and enabling activities for phase 1 at National Temperance Hospital at RP1. The noise monitor at RP1 was installed on the 28 October 2016.

The activities in the period 10 October 2016 to 30 October 2016 would include:

- Scaffolding and hoarding setup.
- Surveys and investigation works.
- Soft strip operations.

The unattended and recorded measured noise levels are presented graphically in this report. The noise monitoring unit at RP1 was installed 28 October 2016 and therefore there is limited data at this location.

The daily LAeq10hour from 08.00 to 18.00 Monday to Friday, and 08.00 to 13.00 on Saturday were as Table 6.3:

LAeq10hours						LAeq5hours
Date	10/10/2016	11/10/2016	12/10/2016	13/10/2016	14/10/2016	15/10/16
RP1	-	-	-	-	-	-

Table 6.1

LAeq10hours						LAeq5hours
Date	17/10/2016	18/10/2016	19/10/2016	20/10/2016	21/10/2016	22/10/16
RP1	-	-	-	-	-	-

Table 6.2

LAeq10hours						LAeq5hours
Date	24/10/2016	25/10/2016	26/10/2016	27/10/2016	28/10/2016	29/10/16
RP1	-	-	-	-	61.4	64

Table 6.3

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Unattended Baseline Noise Monitoring Report

Period: 10 October 2016 to 30 October 2016

Project No EEMC/065/2016
Report No. EEMC-NTH-065.002 – NTH, HS2 Rev 00
Client: Keltbray Limited
Title: EEMC/065-002-NTH, HS2 - Unattended Noise Monitoring Report No.02
Period: 10 October 2016 – 30 October 2016

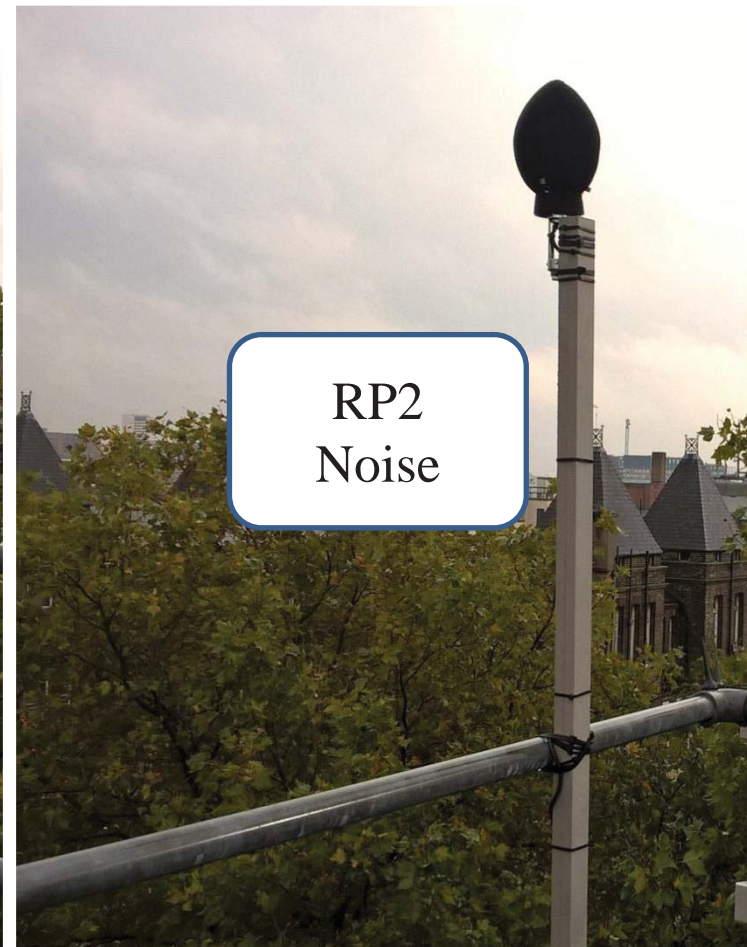
Details of Noise Monitor at Receptor Point (RP)

ID Reference	RP2
Location	Terrace of Woodhall residential block (Hampstead Road/Robert Street intersection)
Instrument:	Rion NL-52
Serial Number:	00654028
Installation Date:	13/10/2015
Calibration date:	03/10/2016 UCRT16/1296

Map of monitoring location



Photos of monitor



1.0 Introduction

European Environmental Monitoring and Consultancy (EEMC) Limited is appointed by Keltbray to undertake environmental monitoring for the demolition works phase at the National Temperance Hospital project located in the London Borough of Camden (LBC). Noise monitoring equipment has been installed at three locations and measured levels are to be recorded continuously.

This report details the baseline noise data measured and recorded in the period 10 October 2016 to 30 October 2016. This report should be read with the section 61 Application submitted to LBC for the National Temperance Hospital demolition works.

Site operations will be limited to 08:00-18:00 hours Monday to Friday and 08:00-13:00 hours on Saturday with no works on Sundays or public holidays.

This report presents the noise levels (LAeqT) measured and recorded at position RP2 prior to demolition activities taking place.

The site is in the London Borough of Camden (LBC). The surrounding area is populated by residential blocks, various types of businesses such as hotels, a community center and the Maria Fidelis School and UCL, all of which could be affected by demolition and associated activities.

2.0 Instrumentation

All noise monitoring units are Rion NL-52 Class 1 noise monitoring systems are housed in a weather proof environmental hard case and an all-weather protected remote microphone (see photo).

3.0 Methodology

Keltbray requested (EEMC) Limited to undertake unattended noise monitoring at three agreed locations near the site, including the baseline noise levels prior to demolition works. For the start of demolition works noise trigger action levels were agreed with the Environmental Health Officer (EHO) of Camden. The unattended baseline noise monitoring presented in this report was undertaken while no noisy operations were ongoing on site. All results are presented (LAeq1hour).

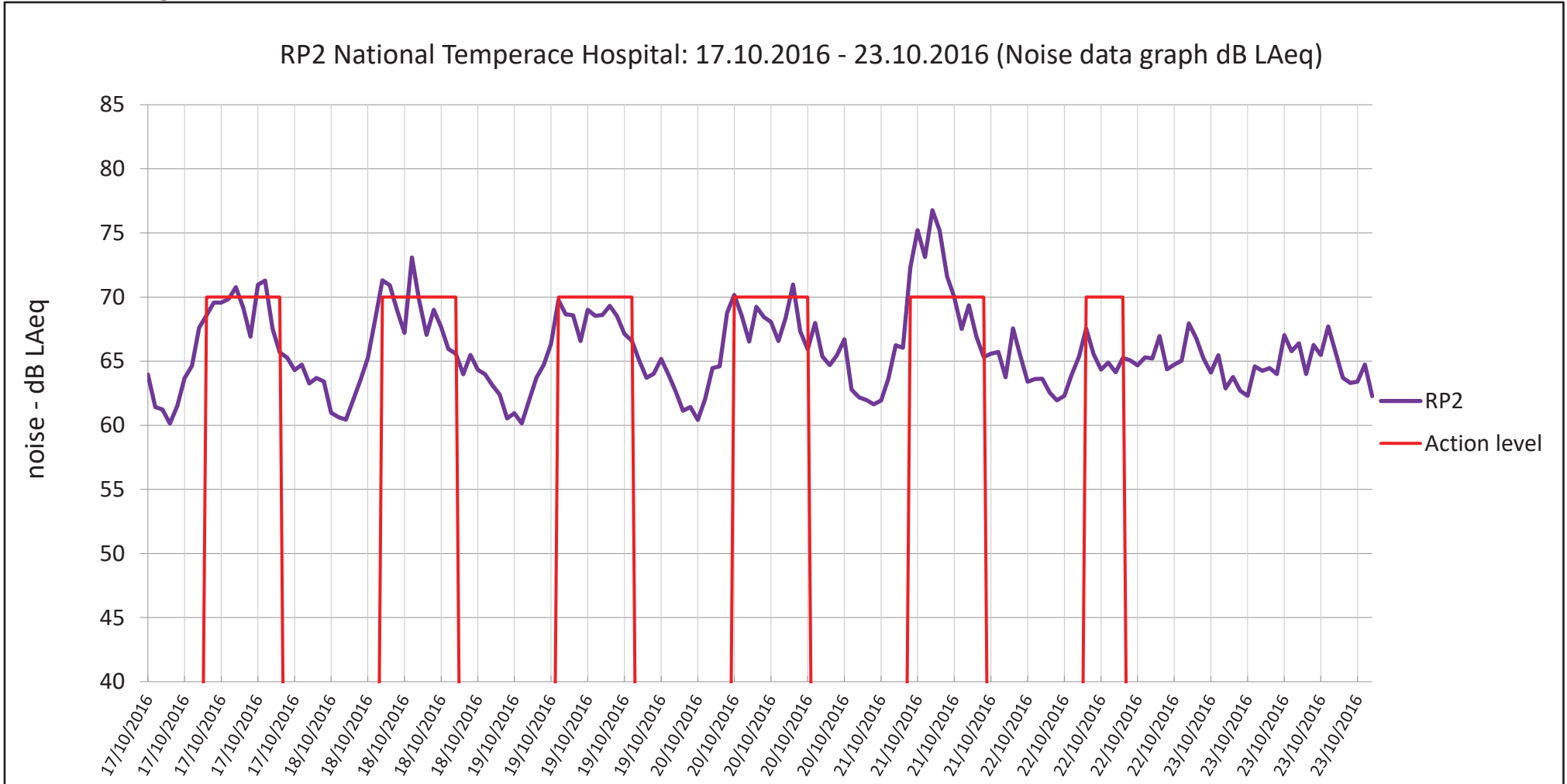
Noise levels have been recorded for the measurement periods of 08.00 to 18.00 Monday to Friday and 08.00 to 13.00 on Saturdays. These times have been agreed with LBC to be the core hours within which noisy demolition activities can proceed.

The measured unattended baseline noise levels can be used to compare with the measured and recorded noise levels during the demolition activities.

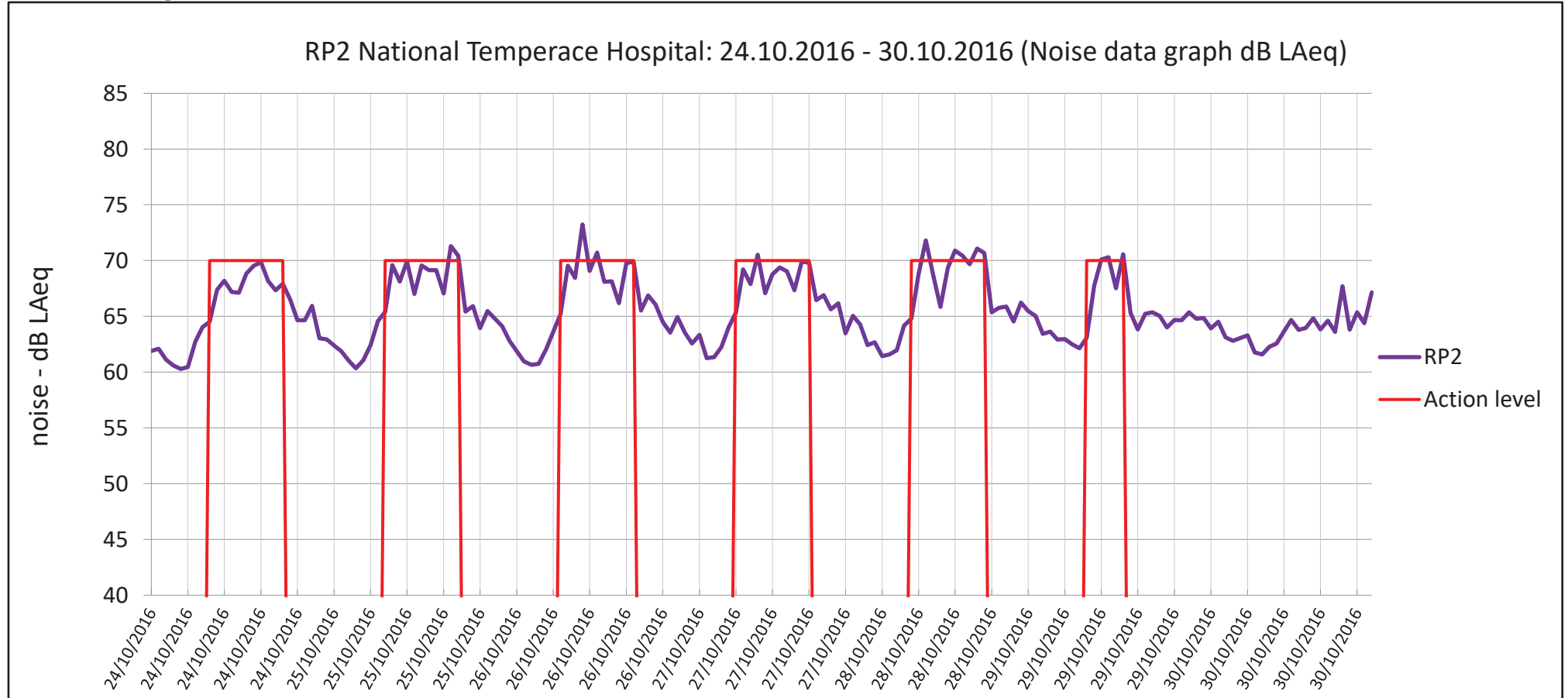
4.0 Measurement Results

The recorded baseline noise measurements in this period are presented as graphs in section 5.0 of this report using LAeq1hour data points.

RP2 Week ending 23/10/16



RP2 Week ending 30/11/16



6.0 Discussion

Unattended ambient baseline noise monitoring has been undertaken for the pre-demolition commencement and enabling activities for at National Temperance Hospital at RP2.

The activities in this period 10 October 2016 to 30 October 2016 would include:

- Scaffolding and hoarding setup.
- Surveys and investigation works.
- Soft strip operations.

The unattended and recorded measured noise levels are presented graphically in this report.

From the graphs the LAeq1hour frequently exceeds 70dB on most days.

The daily LAeq10hour from 08.00 to 18.00 Monday to Friday, and 08.00 to 13.00 on Saturday were as Tables 6.1; 6.2 and 6.3:

LAeq10hours						LAeq5hours
Date	10/10/2016	11/10/2016	12/10/2016	13/10/2016	14/10/2016	15/10/16
RP2	-	-	60.6 (61)	68.5 (69)	68.8 (69)	67.5 (68)

Table 6.1

LAeq10hours						LAeq5hours
Date	17/10/2016	18/10/2016	19/10/2016	20/10/2016	21/10/2016	22/10/16
RP2	69.4	69	68	68	72.5 (73)	64.8 (65)

Table 6.2

LAeq10hours						LAeq5hours
Date	24/10/2016	25/10/2016	26/10/2016	27/10/2016	28/10/2016	29/10/16
RP2	68	69	69.6 (70)	69	69.9 (70)	69.4

Table 6.3

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Unattended Baseline Noise Monitoring Report

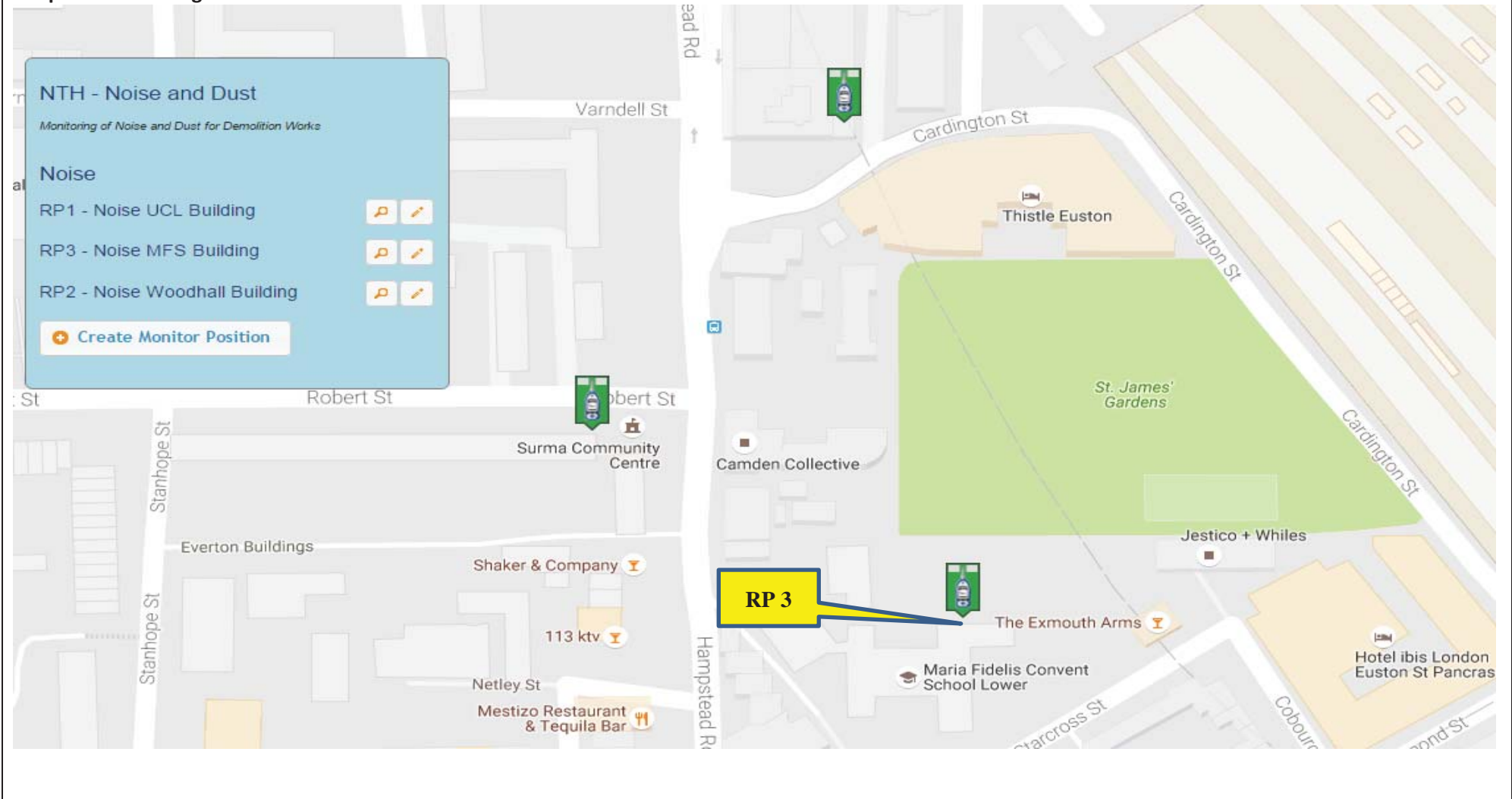
Period: 10 October 2016 to 30 October 2016

Project No EEMC/065/2016
Report No. EEMC-NTH-065.003 – NTH, HS2 Rev 00
Client: Keltbray Limited
Title: EEMC/065-003-NTH, HS2 - Unattended Noise Monitoring Report No.03
Period: 10 October 2016 – 30 October 2016

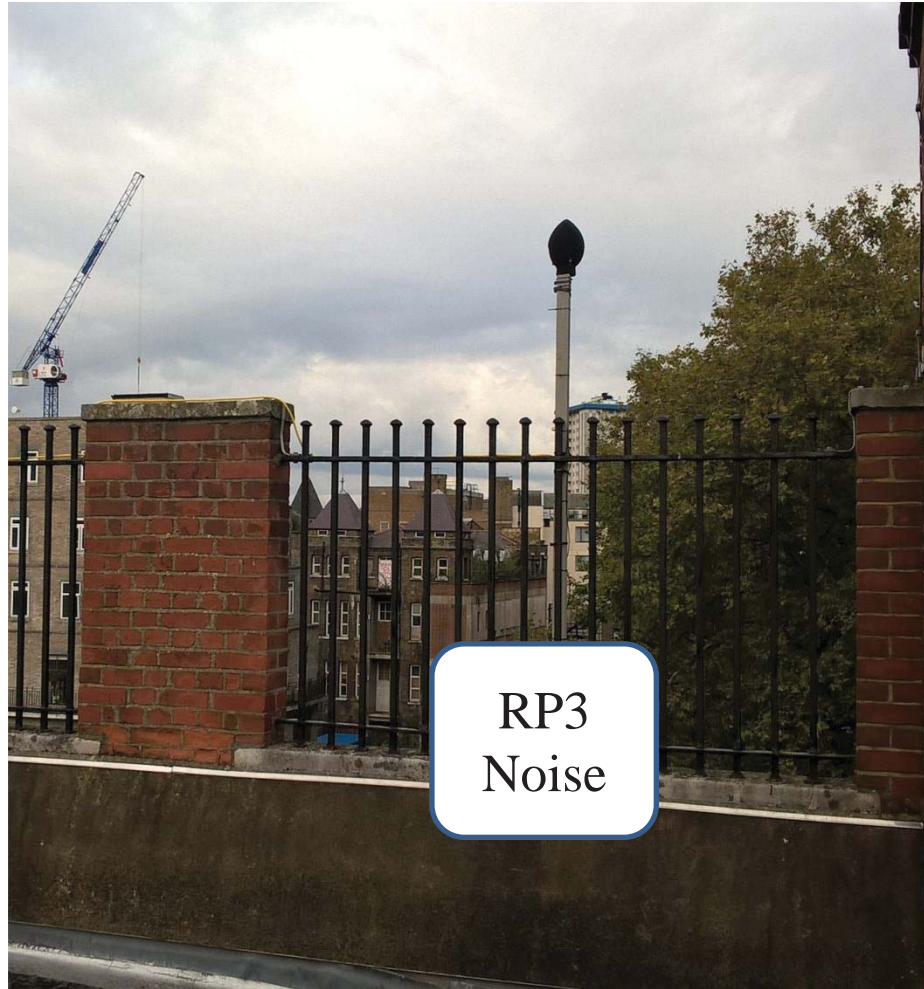
Details of Noise Monitor at Receptor Point (RP3)

ID Reference	RP3
Location	Maria Fidelis School (Terrace of Classroom 22)
Instrument:	Rion NL-52
Serial Number:	00553874
Installation Date:	12/10/2015
Last Calibration Date:	03/10/2016 UCRT16/1300

Map of monitoring location



Photos of monitor



1.0 Introduction

European Environmental Monitoring and Consultancy (EEMC) Limited is appointed by Keltbray to undertake environmental monitoring for the demolition works phase at the National Temperance Hospital project located in London Borough of Camden (LBC). Noise monitoring equipment has been installed at three locations and measured noise levels are to be recorded continuously.

This report presents the baseline noise data measured and recorded in the period 10 October 2016 to 30 October 2016. This report should be read in conjunction with the section 61 Application submitted to LBC for the National Temperance Hospital demolition works and the Trigger Action Plan (TAP) for position RP3 at the Maria Fidelis School.

Site operations will be limited to 08:00-18:00 hours Monday to Friday and 08:00-13:00 hours on Saturday with no works on Sundays or public holidays.

This report presents the noise levels measured and recorded at position RP3 prior to demolition activities taking place.

The site is in the London Borough of Camden (LBC). The surrounding area is populated by residential blocks, various types of businesses such as hotels, a community center and the Maria Fidelis School and UCL, all of which could be affected by demolition and associated activities.

2.0 Instrumentation

All noise monitoring units are Rion NL-52 Class 1 noise monitoring systems housed in a weather proof environmental hard case and an all-weather protected remote microphone (see photo).

3.0 Methodology

Keltbray requested (EEMC) Limited to undertake unattended noise monitoring at three agreed locations near the works, including the baseline noise levels prior to demolition works. For the start of demolition works noise trigger action levels were also agreed with the Environmental Health Officer (EHO) of Camden. The unattended baseline noise monitoring presented in this report was undertaken while no noisy operations were ongoing on site. All results are recorded (LAeqT) by data logging equipment within each unit.

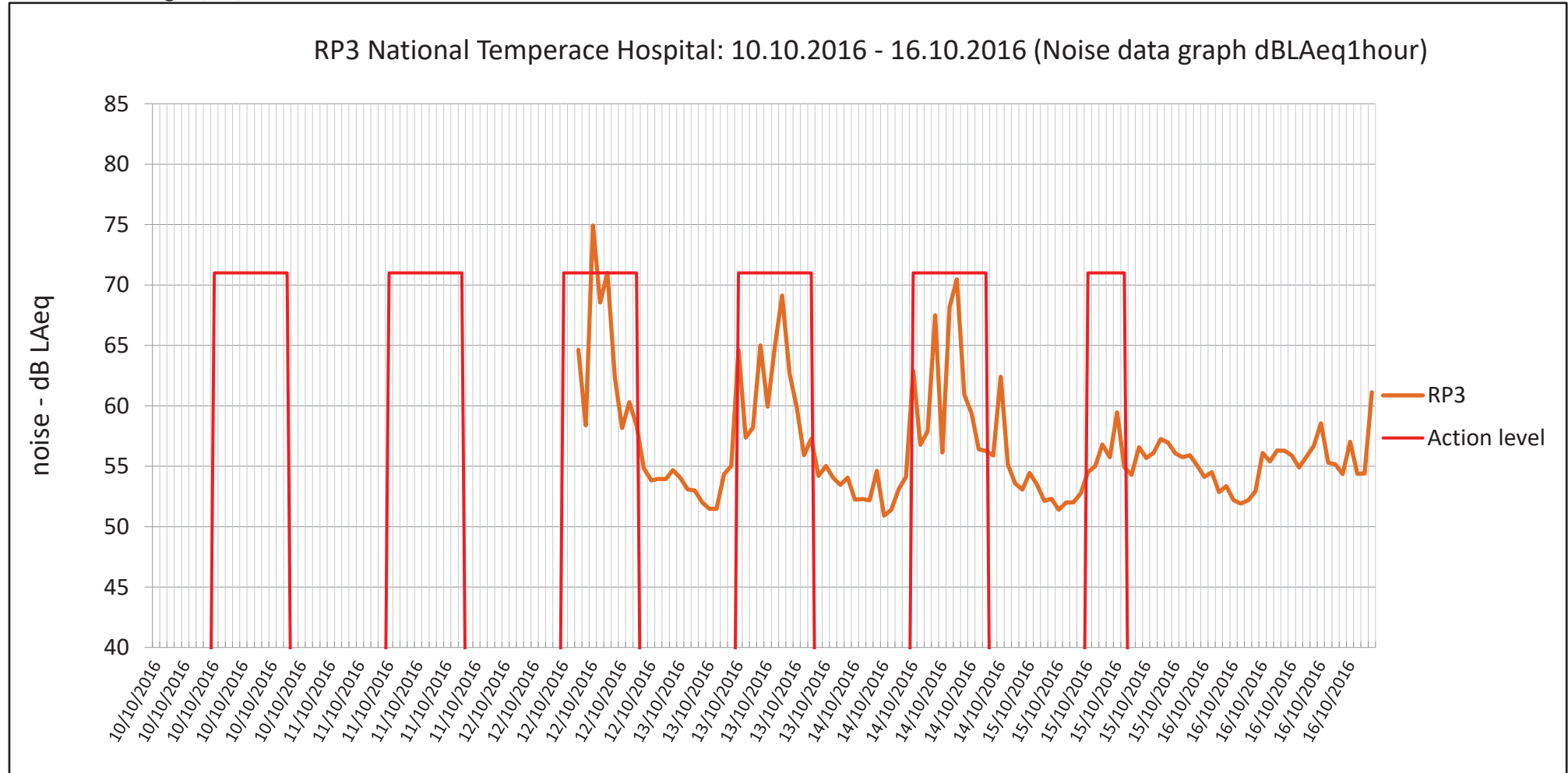
Noise levels have been recorded for the measurement periods of 08.00 to 18.00 Monday to Friday and 08.00 to 13.00 on Saturdays. These times have been agreed with LBC to be the core hours within which noisy demolition activities can proceed.

The measured unattended baseline noise levels can be used to compare with the measured and recorded noise levels during the demolition activities.

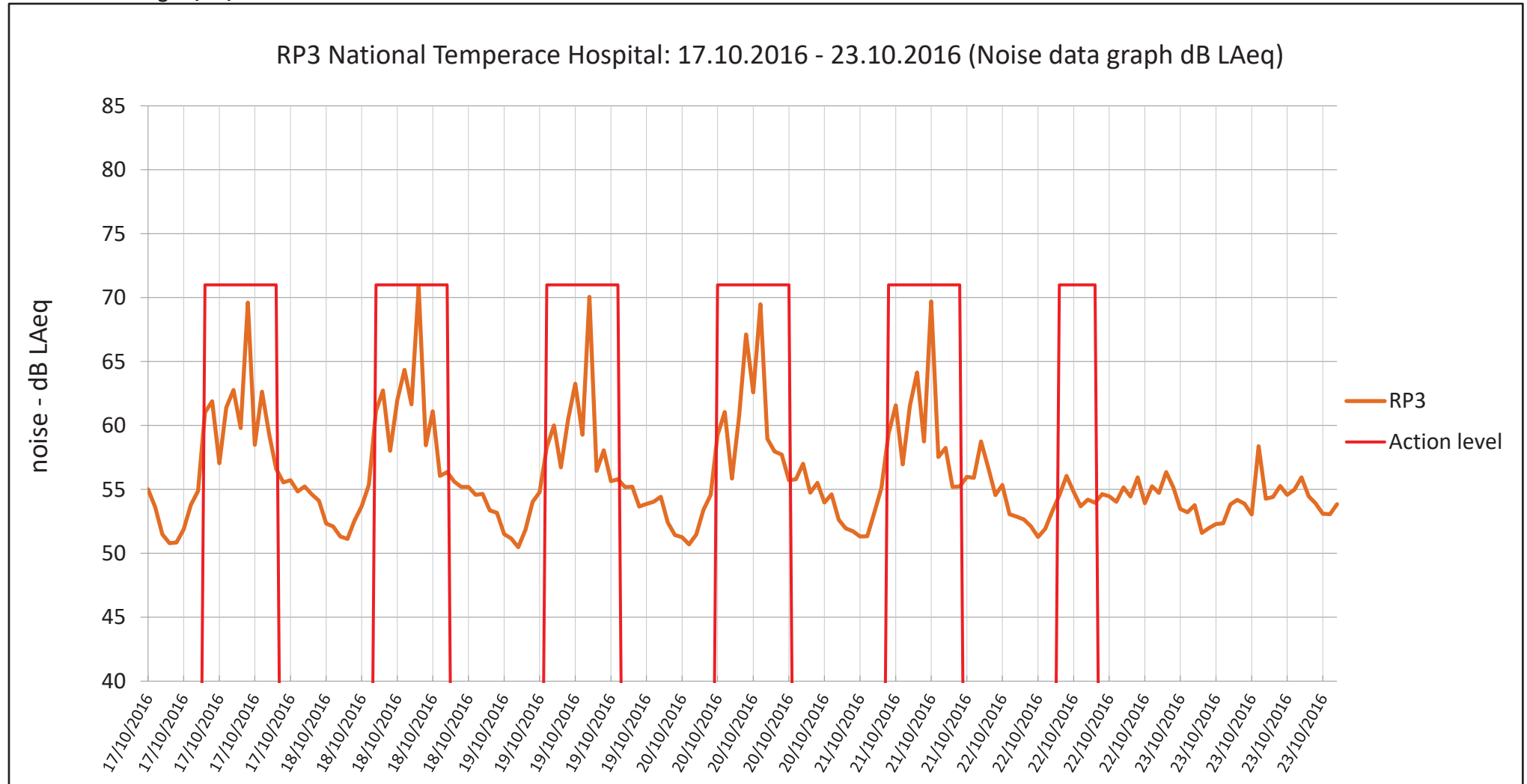
4.0 Measurement Results

The recorded baseline noise measurements in this period are presented as graphs in section 5.0 of this report using LAeq1hour data points.

5.0 Measurement Results
RP3 Week ending 16/10/16



RP3 Week ending 23/10/16



6.0 Discussion

Unattended ambient baseline noise monitoring has been undertaken for the pre-demolition commencement and enabling activities for the National Temperance Hospital at RP3.

The activities in this period 10 October 2016 to 30 October 2016 may include:

- Scaffolding and hoarding setup.
- Surveys and investigation works.
- Soft strip operations.

The unattended and recorded measured noise levels are presented graphically in this report.

Of note is the following...

From 12 October to 21 October the LAeq1hour regularly reached 70dB and on one occasion 75dB

The final week of monitoring was half term holiday for the school. The reduction of daytime LAeq1hour noise level peaks can be attributed to the absence of pupils and the outdoor playground breaks.

The daily LAeq10hour from 08.00 to 18.00 Monday to Friday, and 08.00 to 13.00 on Saturday were as Tables 6.1; 6.2 and 6.3:

LAeq10hours						LAeq5hours
Date	10/10/2016	11/10/2016	12/10/2016	13/10/2016	14/10/2016	15/10/16
RP3	-	-	67.6 (68)	63	64.4	56.7 (57)

Table 6.1

LAeq10hours						LAeq5hours
Date	17/10/2016	18/10/2016	19/10/2016	20/10/2016	21/10/2016	22/10/16
RP3	62.8 (63)	63.6 (64)	62.4	63	62.5 (63)	54.6 (55)

Table 6.2

LAeq10hours						LAeq5hours
Date	24/10/2016	25/10/2016	26/10/2016	27/10/2016	28/10/2016	29/10/16
RP3	62	62	62	62	62	60

Table 6.3

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High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

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