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**3A Prospect Street, Caversham,
Reading**

Environmental noise assessment of a proposed residential extension to a mixed development at 3A Prospect Street, Caversham.

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1.0 Introduction

- 1.1 Sharps Gayler LLP (SGL) has been commissioned by Just Caversham Developments Ltd to undertake a noise assessment in relation to a planned residential extension and redevelopment to a mixed-use development at 3A Prospect Street, Caversham, Reading.
- 1.2 An aerial view of the site is attached at Appendix A and a proposed site layout is attached at Appendix B.
- 1.3 The proposal involves retaining the existing structure but extending the rear of the property and also adding extra floor levels for residential use.
- 1.4 The site is bordered by Prospect Street and North Street. The area has a number of public houses and restaurants nearby.
- 1.5 The retail unit on the ground floor was occupied by a Chinese restaurant.
- 1.6 The proposal includes:
 - the conversion of the existing ground floor into apartments, however retaining the commercial unit on the front façade facing Prospect Street
 - upgrading and extending the existing first floor flat up one level (2nd floor)
 - Adding a serving/parking area at the rear (on North Street) with residential apartments on the new 1st and 2nd floors
 - Courtyards are proposed within the development - not fronting any roads
 - Retaining the commercial/retail unit on the ground floor fronting Prospect Street
- 1.7 Section 2.0 of this report discusses available guidance for the assessment of noise in relation to the proposed residential development and the relevant guidance on the noise impact on the local residents from the development.
- 1.8 Section 3.0 of this report sets out the findings of a noise survey undertaken on the site.
- 1.9 Section 4.0 sets out the assessed noise emission levels and impacts.
- 1.10 Section 5.0 provides SGL's assessment Conclusion.

2.0 Assessment methodology

National Planning Policy Framework (NPPF)

- 2.1 The National Planning Policy Framework (NPPF), released on 27th March 2012, indicates that local planning authorities should base their decisions and policies relating to planned development so as to:

- aim to avoid noise from giving rise to significant adverse impacts on health and quality of life as a result of new development;
 - mitigate and reduce to a minimum other adverse impacts on health and quality of life arising from noise from new development, including through the use of conditions;
 - recognise that development will often create some noise and existing businesses wanting to develop in continuance of their business should not have unreasonable restrictions put on them because of changes in nearby land uses since they were established; and
 - identify and protect areas of tranquillity which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason.
- 2.2 The NPPF does not provide prescriptive or quantitative advice on how to achieve its principal objective of avoiding significant adverse impacts on health and quality of life. Therefore, it is necessary to consider advice in other guidance documents.
- The Noise Policy Statement for England (NPSE)**
- 2.3 Footnote 27 on page 29 of the NPPF refers to the Noise Policy Statement for England (NPSE), prepared by DEFRA, dated March 2010.
- 2.4 Paragraph 1.5 of the NPSE states that it applies to all forms of noise including environmental noise, neighbour noise and neighbourhood noise. In this respect the document is similar to the World Health Organisation (WHO) "Guidelines for Community Noise" – discussed below.
- 2.5 The NPSE explains that the WHO defines health as "a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity" (NPSE paragraph 2.12).
- 2.6 The "Noise Policy Aims" of the NPSE (NPSE paragraphs 2.22 to 2.24) can be summarised as follows:
- avoid significant adverse impacts on health and quality of life...";
 - "mitigate and minimise adverse impacts on health and quality of life..."; and
 - "where possible, contribute to the improvement of health and quality of life.
- 2.7 The NPSE makes a distinction between "quality of life", which is a subjective measure, and "health", which refers to physical and mental well-being.
- 2.8 Impacts that may result from noise such as "annoyance" and "sleep disturbance" are both quality of life and health effects in this sense.
- 2.9 The NPSE introduces the concepts of the "no observed effect level" (NOEL); the "lowest observed adverse effect level" (LOAEL) and a "significant observed adverse effect level" (SOAEL).

- 2.10 It is the last of these criteria – the SOAEL – that is the level above which significant adverse effects on health and quality of life occur that equates to the “first aim of the NPSE” paragraph 2.6 above) and the first objective of the NPPF (paragraph 2.1 above).
- 2.11 The “second aim of the NPSE” is to mitigate and minimise adverse impacts between LOAEL and SOAEL.
- 2.12 The NPSE does not provide noise levels or limits above which SOAEL occurs. Indeed, the document advises that it is not possible to have a single objective noise-based measure that defines SOAEL (NPSE paragraph 2.22). Therefore, it is necessary to refer to other advisory documents in order to seek to define such levels. These are discussed below.

National Planning Practice Guidance (NPPG)

- 2.13 The NPPG was released on 6th March 2014 and was last updated in December 2014.
- 2.14 This document reinforces the concept of NOEL, LOAEL and SOAEL and defines a person’s perception at these different effect levels.
- 2.15 It is notable that the NPPG describes the NOEL as “noise can be heard, but does not cause any change in behaviour or attitude”, whereas at a LOAEL “noise can be heard and causes small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly...” The former is described as “noticeable and not intrusive” whereas the latter is described as “noticeable and intrusive”.
- 2.16 A “significant” effect is described as “noticeable and disruptive” resulting in “a material change in behaviour and/or attitude...”
- 2.17 The NPPF, NPSE and NPPG do not ascribe noise levels to any of the effects discussed within the documents. Therefore, it is necessary to consider other guidance which attributes noise levels to health effects such as annoyance during the day or sleep disturbance at night.

World Health Organisation – Guidelines for Community Noise

- 2.18 This document contains the most comprehensive and up to date guidance on the assessment of environmental noise.
- 2.19 The WHO Guidelines are particularly applicable in relation to the NPPF, NPSE and NPPG advice since it considers impact in terms of health effects (health being defined in its widest sense discussed at paragraph 2.5 above - including annoyance during the day (defined as 0700 to 2300 hours) and sleep disturbance at night (defined as 2300 to 0700 hours).
- 2.20 The WHO Guidelines contain a matrix of “guideline values” for effects from noise within different environments. These guideline values are set at the lowest level that produces an adverse effect, that is, the “critical health effect”. As such the values suggested in the Guidelines are thresholds below which effects such as annoyance can be assumed to be negligible. As such the WHO guideline values are equivalent to the NPSE LOAEL.

- 2.21 Unfortunately, the WHO Guidelines do not provide advice as to what constitutes a “significant” effect; it is necessary to consider other guidance in this respect. This is discussed at paragraphs 2.25 and 2.26 below.
- 2.22 The WHO guideline values for moderate and serious annoyance during the daytime are LAeq16hrs = 50 and 55 dB, respectively. The WHO guideline values for night are LAeq8hr = 45 dB and LAMAX = 60 dB.
- 2.23 The WHO guideline values for day can be considered to be either facade levels (when assessing effects inside dwellings) or free-field levels (when assessing effects in gardens). The WHO guideline values for night are façade levels (i.e. outside bedroom windows).

NPL audit report of the WHO Guidelines

- 2.24 This National Physical Laboratory (NPL) document, which was commissioned by the Department of the Environment Transport and the Regions (DETR), contains a section on a “Guide to the Interpretation of the WHO Guidelines”. This interpretation related to a 1995 draft of the Guidelines but this was not materially different to the final 1999 Guidelines.
- 2.25 The summary of this section of the NPL report states:

“In essence, the WHO guidelines represent a consensus view of international expert opinion on the lowest threshold noise levels below which the occurrence rates of particular effects can be assumed to be negligible. Exceedances of the WHO guideline values do not necessarily imply significant noise impact and indeed, it may be that significant impacts do not occur until much higher degrees of noise exposure are reached.”

- 2.26 “Much higher degrees of exposure” is not defined by the NPL. However, in SAL’s judgment this indicates a 10 dB difference (a 10 dB difference being roughly a doubling of loudness). Therefore, SOAEL values are 10 dB higher than the WHO guideline values.

BS 8233:2014

- 2.27 BS 8233:2014 “Guidance on sound insulation and noise reduction for buildings” is specifically aimed at the acoustic design of new or refurbished buildings - residential and other noise sensitive properties. It provides guideline values for living areas and bedrooms and for external amenity areas such as gardens. The BS 8233 guideline values were based on the WHO guideline values, discussed above.
- 2.28 Table 4 of the standard provides “desirable” internal guideline values as shown in Table 1 below:

Table 1 BS 8233 guideline values

Activity	Location	07:00 to 23:00 hrs	23:00 to 07:00 hrs
Resting	Living Room	35 dB LAeq16hour	-
Dining	Dining room/area	40 dB LAeq16hour	-
Sleeping (daytime resting)	Bedroom	35 dB LAeq16hour	35 dB LAeq8hour

2.29 The above guideline values apply to noise that is steady and without a particular character. Therefore, the BS 8233 guideline values are not appropriate to the assessment of rail noise.

2.30 The advice at paragraph 7.7.3.2 of the standard is as follows:

"For traditional external areas that are used for amenity space, such as gardens and patios, it is desirable that the external noise level does not exceed 50 dB LAeq,T, with an upper guideline value of 55 dB LAeq,T which would be acceptable in noisier environments. However, it is also recognized that these guideline values are not achievable in all circumstances where development might be desirable. In higher noise areas, such as city centres or urban areas adjoining the strategic transport network, a compromise between elevated noise levels and other factors, such as the convenience of living in these locations or making efficient use of land resources to ensure development needs can be met, might be warranted. In such a situation, development should be designed to achieve the lowest practicable levels in these external amenity spaces, but should not be prohibited."

2.31 The above guideline values are applicable to all noise and not just to noise that is steady and without a particular character. Therefore, the BS 8233 guideline values for "external areas that are used for amenity space, such as gardens and patios". The BS 8233 "desirable" guideline values are most closely aligned with LOAEL values.

2.32 BS 8233:2014 also provides guidance for the control of noise in and around various types of buildings. The standard is applicable to the design of new buildings, or refurbished buildings undergoing a change of use.

British Standard 4142:2014

2.33 This fourth edition of the British Standard was published in October 2014. It is entitled "Methods for rating and assessing industrial and commercial sound".

2.34 The Scope of the standard includes:

"1.1 This British Standard describes methods for rating and assessing sound of an industrial and/or commercial nature, which includes: a) sound from industrial and manufacturing processes; b) sound from fixed installations which comprise mechanical and electrical plant and equipment; c) sound from the loading and unloading of goods and materials at industrial and/or commercial premises; and d) sound from mobile plant and vehicles that is an intrinsic part of the overall sound emanating from premises or processes, such as that from forklift trucks, or that from train or ship movements on or around an industrial and/or commercial site." (emphasis added)

2.35 It can be seen that this standard is appropriate in this case for the assessment of noise from deliveries and any mechanical plant associated with the development onto the existing sensitive receivers.

2.36 The standard assesses the likely impact from a proposed scheme by considering the difference between the "rating level" of the sound being assessed with the "background sound level" of the area.

2.37 The noise source is assessed in terms of the LAeqT statistical index – in effect the average sound energy level (see the Glossary at Section 6.0 below for a description of this index). During the day (defined as

- 0700 to 2300 hours), the LAeqT level must be normalised to 1 hour (i.e. LAeq1hr). BS 4142 terms this level the "specific sound level".
- 2.38 The specific sound level is then corrected by given decibel factors for any impulsiveness, tonality, intermittency or other character that may attract attention. These different character corrections are additive. BS 4142 calls the resultant, corrected level the "rating level".
- 2.39 The background sound level is described by the LA90 statistical index – the level exceeded for 90% (i.e. almost all of) the time (see the Glossary at Section 7.0 below for a description of this index).
- 2.40 Section 11 of BS 4142 is important and warrants careful consideration and analysis. The following extracts are of note:
- "The significance of sound of an industrial and/or commercial nature depends upon both the margin by which the rating level of the specific sound source exceeds the background sound level and the context in which the sound occurs.
 - An effective assessment cannot be conducted without an understanding of the reason(s) for the assessment and the context in which the sound occurs/will occur. When making assessments and arriving at decisions, therefore, it is essential to place the sound in context.
 - Obtain an initial estimate of the impact of the specific sound by subtracting the measured background sound level from the rating level and consider the following. a) Typically, the greater this difference, the greater the magnitude of the impact. b) A difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context. c) A difference of around +5 dB is likely to be an indication of an adverse impact, depending on the context. d) The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context."
- 2.41 It can be seen that the recent edition of BS 4142 employs assessment criteria in terms that are the same as those used within the NPPF and NPSE i.e. the degree of adverse impact (see paragraphs 2.1 and 2.6 above).

Summary of assessment criteria to be employed

- 2.42 Using the provisions of BS4142 aligned with Government policy in NPSE, NPPF and PPG-N, the overall aim from noise emissions from the development should be to avoid situations where the rating level is around 10 dB higher than the typical background sound levels and mitigate and minimise situations where the rating level is around 5 dB above the background sound level. However, the overall noise level will be taken in context.
- 2.43 Internal noise levels within the development should be designed according to the limits set out in BS8233:2014. All noise sources (including future noise sources which are part of the operation of the proposed development) should be considered when recommending insulation values for façade build ups.

3.0 Survey results

- 3.1 A noise survey was undertaken, in two locations between 11:45 on the 25th January 2018 and 14:30 on the 31st January 2018.
- 3.2 The survey recorded the noise level, at the front of the development measuring noise levels from road traffic from Prospect Street, and noise from the nearby pubs and restaurants (road traffic noise was considered to be dominant). The second survey position was at the rear of the development.
- 3.3 These measurements were used to establish the existing noise levels at the façades of the proposed development and background sound levels at properties to the rear.
- 3.4 The full details of the survey, including measurement locations, and detailed survey results of road traffic noise levels are attached at Appendix C.
- 3.5 Table 3, 4 and 5, below, displays the overall noise level over the day/evening/night at the two survey locations:

Table 3 Surveyed noise levels- LAeq12Hour - Daytime

Start date/location	Start time	Duration	LAeqT	LAMAX	LA1%	LA10 %	LA90 %
Rear – Free field							
Thursday, January 25, 2018	11:45	7:15	51.1	80.4	58.0	52.7	48.0
Friday, January 26, 2018	7:00	12:00	52.7	80.9	61.2	53.2	46.2
Saturday, January 27, 2018	7:00	12:00	52.8	80.1	59.4	53.5	48.8
Sunday, January 28, 2018	7:00	12:00	52.8	85.4	61.4	53.4	46.2
Monday, January 29, 2018	7:00	12:00	52.2	80.7	59.3	52.9	47.0
Tuesday, January 30, 2018	7:00	12:00	52.1	82.5	59.4	52.9	46.9
Wednesday, January 31, 2018	14:30	4:30	53.2	77.2	60.5	55.2	48.8
Front – Façade level							
Thursday, January 25, 2018	11:45	7:15	69.8	103.6*	76.9	72.6	61.5
Friday, January 26, 2018	7:00	12:00	73.9	114.6*	78.7	73.4	62.4
Saturday, January 27, 2018	7:00	12:00	74.3	114.2*	77.0	73.2	61.0
Sunday, January 28, 2018	7:00	12:00	73.4	114.2*	76.8	73.0	56.3
Monday, January 29, 2018	7:00	12:00	73.6	113.9*	78.9	73.4	61.4
Tuesday, January 30, 2018	7:00	12:00	73.4	116.0*	79.2	73.8	61.9
Wednesday, January 31, 2018	14:30	4:30	73.0	104.9*	79.7	74.8	63.5

Table 4 Surveyed noise levels- LAeq4Hour - Evening

Start date/location	Start time	Duration	LAeqT	LAMAX	LA10 %	LA90 %	LA1 %
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Rear – Free field							
Thursday, January 25, 2018	19:00	4:00	50.9	77.9	56.9	51.7	45.2
Friday, January 26, 2018	19:00	4:00	48.1	72.6	54.8	49.8	43.2
Saturday, January 27, 2018	19:00	4:00	52.5	83.2	57.6	51.8	46.1
Sunday, January 28, 2018	19:00	4:00	48.9	73.3	57.2	51.1	43.4
Monday, January 29, 2018	19:00	4:00	47.7	74.1	53.6	50.0	42.4
Tuesday, January 30, 2018	19:00	4:00	50.0	78.3	54.6	50.9	45.5
Front – Façade level							
Thursday, January 25, 2018	19:00	4:00	72.2	109.8*	76.9	73.1	54.1
Friday, January 26, 2018	19:00	4:00	70.6	102.7*	76.4	72.7	56.1
Saturday, January 27, 2018	19:00	4:00	75.5	114.5*	77.4	73.4	55.1
Sunday, January 28, 2018	19:00	4:00	67.7	92.6	76.1	72.2	50.4
Monday, January 29, 2018	19:00	4:00	69.1	86.8	76.9	73.4	52.3
Tuesday, January 30, 2018	19:00	4:00	68.0	87.0	76.0	72.7	52.0

Table 5 **Surveyed noise levels- LAeq8Hour - Night**

Start date/location	Start time	Duration	LAeqT	LAMAX	LA10 %	LA90 %	LA1 %
Rear – Free field							
Thursday, January 25, 2018	11:00	8:00	45.7	72.6	55.7	48.0	36.4
Friday, January 26, 2018	11:00	8:00	45.3	69.3	52.8	48.2	39.2
Saturday, January 27, 2018	11:00	8:00	44.2	71.9	51.7	47.3	35.0
Sunday, January 28, 2018	11:00	8:00	45.4	68.9	54.3	49.0	37.2
Monday, January 29, 2018	11:00	8:00	44.5	70.8	53.5	48.8	33.5
Tuesday, January 30, 2018	11:00	8:00	46.1	71.5	54.4	49.8	37.6
Front – Façade level							
Thursday, January 25, 2018	11:00	8:00	65.5	95.5	76.6	70.0	39.7
Friday, January 26, 2018	11:00	8:00	64.7	92.4	75.7	69.4	41.0
Saturday, January 27, 2018	11:00	8:00	64.9	97.1	75.4	68.7	38.9
Sunday, January 28, 2018	11:00	8:00	64.5	91.9	76.1	68.7	41.6
Monday, January 29, 2018	11:00	8:00	65.4	91.0	77.2	69.7	38.3
Tuesday, January 30, 2018	11:00	8:00	65.4	90.4	77.1	70.0	41.4

- Sirens

4.0 Assessment of noise levels and impact

4.1 The main noise source on the development is from the nearby roads. The measured day, evening and night noise levels have used to design the noise reduction required for the residential development.

4.2 The proposal would be subject to a facade noise level of the following.

Table 6 Measured noise levels assumed for calculations

Location	Day/Night	LAeqT	LA1%
Facade facing Prospect Street	Day	73.1	78.2
	Evening	70.5	76.6
	Night	65.1	76.4
Rear of development	Day	52.4	59.9
	Evening	49.7	55.8
	Night	45.2	53.7

Worst case façade facing Prospect Street

4.3 The typical LAMAX is considered to be the LA1%.

4.4 In order to mitigate the noise from road traffic at these properties the building envelope should provide a composite noise insulation value of at least $R_w (C, C_{tr}) = 39 (-2, 6)$ dB. This will ensure that internal levels comply with the WHO guideline value of (LAMAX = 45 dB, LAeqDay = 35 dB and LAeqNight 30dB) inside bedrooms.

4.5 The windows are inevitably the weakest component within any building envelope. Windows should be chosen on the basis that the composite R_w value, discussed above, is not compromised. SGL can advise further on this matter when further details such as building design, materials and window areas are available.

4.6 An example of the construction that would meet this criterion would be - Pilkington Insulight (6.8/16/6.8) window system – with a standard brick block cavity (medium density block work), R_w greater than 50 dB. Ventilation should be provided to rooms of these properties facing the road which should not detrimentally affect the overall R_w of the building envelope. An example construction is considered in the calculations are shown in Appendix E.

4.7 This mitigation measure will ensure that no significant effects will result from road traffic noise inside bedrooms of the development and within the noise levels as stated in BS8233.

4.8 Rooms facing away from prospect road can be constructed with a lower composite R_w .

Amenity area in courtyards

- 4.9 The LAeq12hr-daytime, and LAeq4hour-evening, noise level at the rear of the development was below the WHO guideline values of LAeq12hr/4hr = 55 to 50 dB. The measured location is considered a worst-case situation, in relation to noise, for the proposed courtyards.

Noise from the development on existing sensitive receivers

Mechanical plant noise and serving noise

- 4.10 It is unknown what commercial unit will take over the ground floor unit. However, for completeness if there is any mechanical plant associated with the future use of this unit the following condition should apply.
- 4.11 In determining suitable plant noise criteria at the nearby sensitive receivers Sharps Gayler LLP have considered measured background sound levels taken during the noise survey. To prevent any adverse impacts on the health and quality of life of existing noise sensitive receptors, the "rating noise level" (the predicted noise level plus any penalty for character), should not exceed the typical measured daytime and night time background sound level by more than 5 dB. A summary of the measured background sound levels is shown below.

Table 7 – Summary of surveyed background sound level for mechanical plant noise criteria

Day (0700 to 2300) - Typical LA9015min	Night (2300 to 0700) - Typical LA9015min
46 dB	35 dB

- 4.12 The above criteria can be secured by a suitably worded planning condition as suggested below:

"The rating level of noise emitted from all fixed plant and machinery shall not exceed the background sound level by more than 5dB when measured or calculated at 1 metre from the façade of the nearest noise sensitive property. The measurements and assessment shall be made according to BS 4142:2014."

Table 8 – suggested rating noise level for mechanical servicing criteria

Day (0700 to 2300) - LAeq1hour	Night (2300 to 0700) - LAeq15min
46+5 = 51 dB	35 + 5 = 40 dB

Internal Sound Transmission and design

- 4.13 Internal partitions between flats/rooms should, at least, meet the performance standards (Section 0) as set out in Building Regulation Approved Document E.

- 4.14 The building appears to be a well-constructed building and the sound insulation between adjoining uses is likely to be adequate for the intended use. In addition, the previous restaurant and flats co-existed.
- 4.15 It must be acknowledged, however, that the separating structure between the commercial uses and the proposed residential conversion is not exposed in order that it could be inspected and that the commercial uses may well generate increased levels of noise over and above that which would be expected from typical domestic use.
- 4.16 It is recommended, therefore, that the sound insulation between the adjoining commercial uses and the proposed dwellings be tested, and any improvement works considered necessary be undertaken prior to the residential use beginning. Minimum performances would be required to meet appropriate standards in accordance with the Part E of the Building Regulations.

5.0 Conclusion

Development noise

- 5.1 To ensure internal noise levels within the development do not exceed the guideline values set-out in BS8233:2014 the following should be achieved.
- 5.2 Recommendations have been made in the report in respect of design measures to achieve these aims, through appropriate acoustic protection in the building facades (glazing and ventilation strategies).

Mechanical plant noise affecting existing residents

- 5.3 Suggested noise limits for mechanical plant are set out in the report. The criteria can be secured by a suitably worded planning condition as suggested below:

"The rating level of noise emitted from all fixed plant and machinery shall not exceed the background sound level by more than 5dB when measured or calculated at 1 metre from the façade of the nearest noise sensitive property. The measurements and assessment shall be made according to BS 4142:2014."

6.0 Glossary of terms

Ambient noise: The all encompassing sound associated with a given environment at a specified time, being usually a composite of sound from many sources, near or far.

A weighting: A frequency response provided in a sound level meter which reflects the sensitivity of human hearing to different frequencies.

A-weighted sound level: The sound level (otherwise known as sound pressure level) obtained by use of A-weighting. Decibel unit is dB. Often, the unit symbol is followed by the letter A in round brackets, i.e. dB(A).

Background noise level (bnl): The total level of noise from all other sources other than the particular source of interest. The index symbol is L90. In BS 4142 the bnl is described as "The a-

weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90% of a given time interval, T, measured using time weighting, F, and quoted to the nearest whole number of decibels”.

This index is denoted LA90.

Decibel: A unit of level which denotes the ratio between two quantities that are proportionate to power; the number of decibels is 10 times the logarithm of this ratio. One decibel is one tenth of a Bel. Unit symbol for decibel: dB.

Equivalent continuous sound level: The level of a steady sound which, in a stated time period, has the same sound energy as the time-varying sound. The index symbol is LeqT. When A-weighted the symbol becomes LAeqT with the unit symbol being dB (Note: Alternatively LeqT dB(A)).

Facade noise level: The sound level at a facade (usually taken to be 1 metre from the facade (see for example BS 4142)). A facade level is taken to be 3 dB higher than the level in the absence of the facade (i.e. the equivalent free-field level) although “Calculation of Road Traffic Noise” assumes a 2.5 dB difference.

Free-field: A sound field in a homogeneous isotropic medium whose boundaries exert a negligible influence on the sound waves. In practice, a field in which the effects of the boundaries are negligible over the frequencies of interest. Often taken to be > 3.5 metres from a building facade (ref: BS 4142).

Frequency: Of a function periodic in time, the number of times the quantity repeats itself in one second. The unit of frequency is the hertz (Hz) with 1 hertz = 1 cycle per second.

Frequency weighted sound level: The root-mean-square of the instantaneous sound (pressure) level, time weighted (slow, fast, impulse or peak) and frequency-weighted with a standard frequency characteristic (the most often used being “A-weighting”).

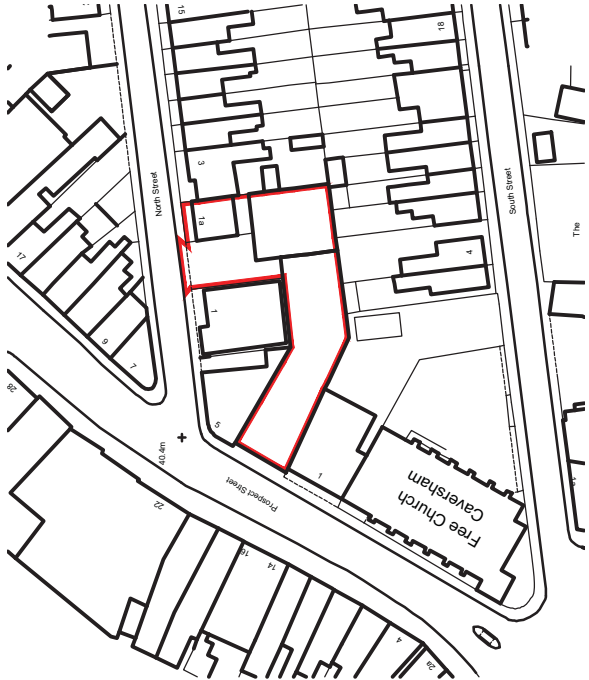
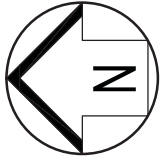
Maximum A-weighted sound level: The greatest A-weighted sound level measured on a sound level meter during a designated time interval or event. The time averaging is usually “fast” but can sometimes be “slow” (e.g. PPG 24 and measurement of aircraft noise).

Noise: Any undesired or unwanted sound.

Octave band sound level: The sound (pressure) level within an octave frequency band. Octave band centre frequencies include: 31.5 Hz, 63 Hz, 1125 Hz, 250 Hz, 500 Hz, 1000 Hz (otherwise shown as 1 KHz), etc.

7.0 Appendices

Appendix A: Aerial view



Location Plan

1:1250 @ A3

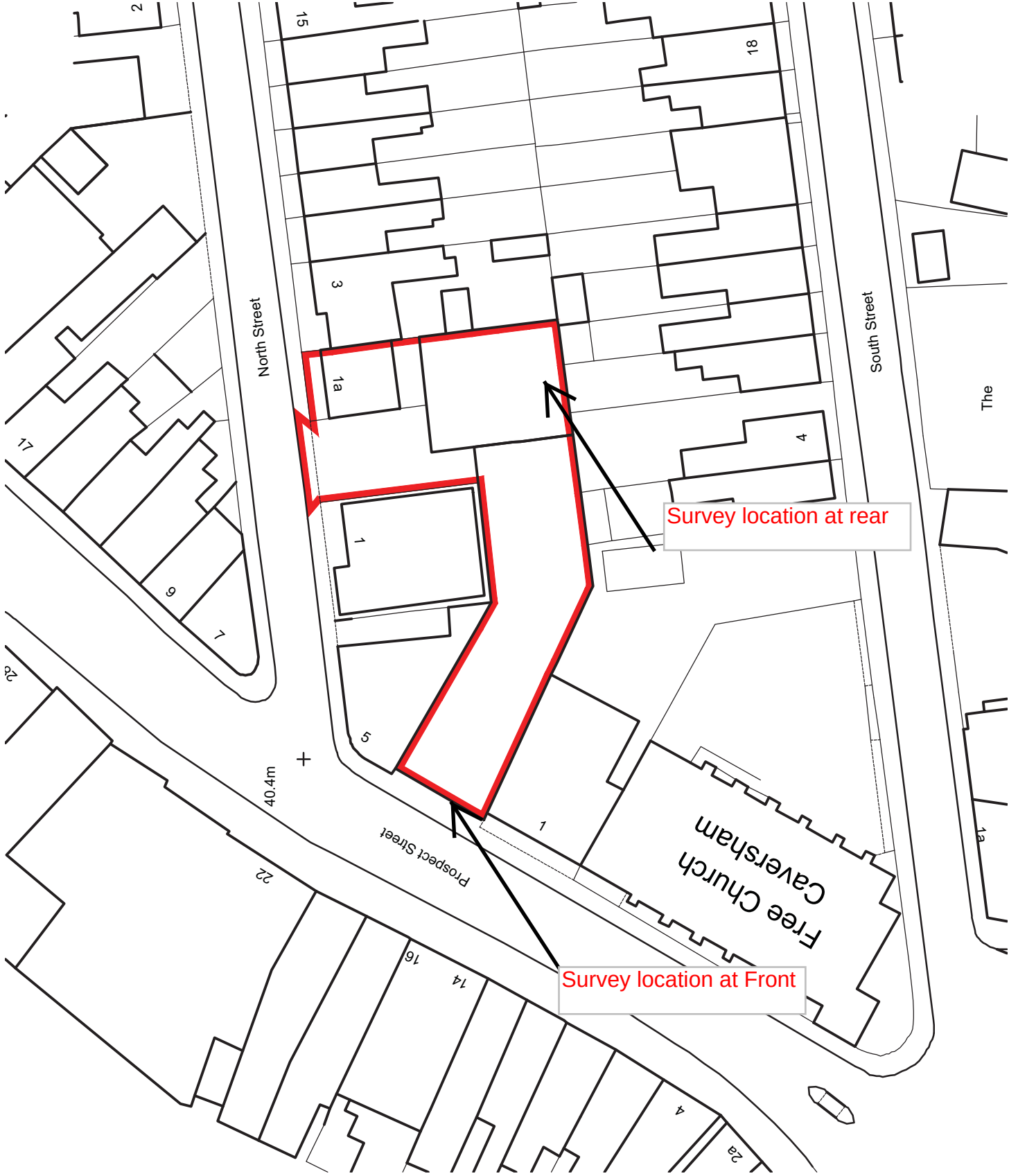
Site Area: 0.067 hectares



Scale 1:1250



Scale 1:500



Block Plan

1:500 @ A3

Revision: -

Date: -

Change: -

Client: Just Caversham Developments

Project: 3 Prospect Street, Caversham, RG4 8JB

Drawing: Location Plan & Block Plan

Scale: 1:500 & 1:1250 @ A3

Date: November 2017

Drawn: LM

Approved:

Drawing No: 1706 L01

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masters ARCHITECTURE

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Appendix B: Proposed site layout



North Street

24.11.17

LM

3

1

5

Prospect Street

40.4m

22

16

14

1

Church
ham

3 PROSPECT STREET,
CAVERSHAM.

- INDICATIVE ROOF PLAN

SK05



24.11.17

LM.

9m DEEP
COMMERCIAL UNIT
RETAINED.

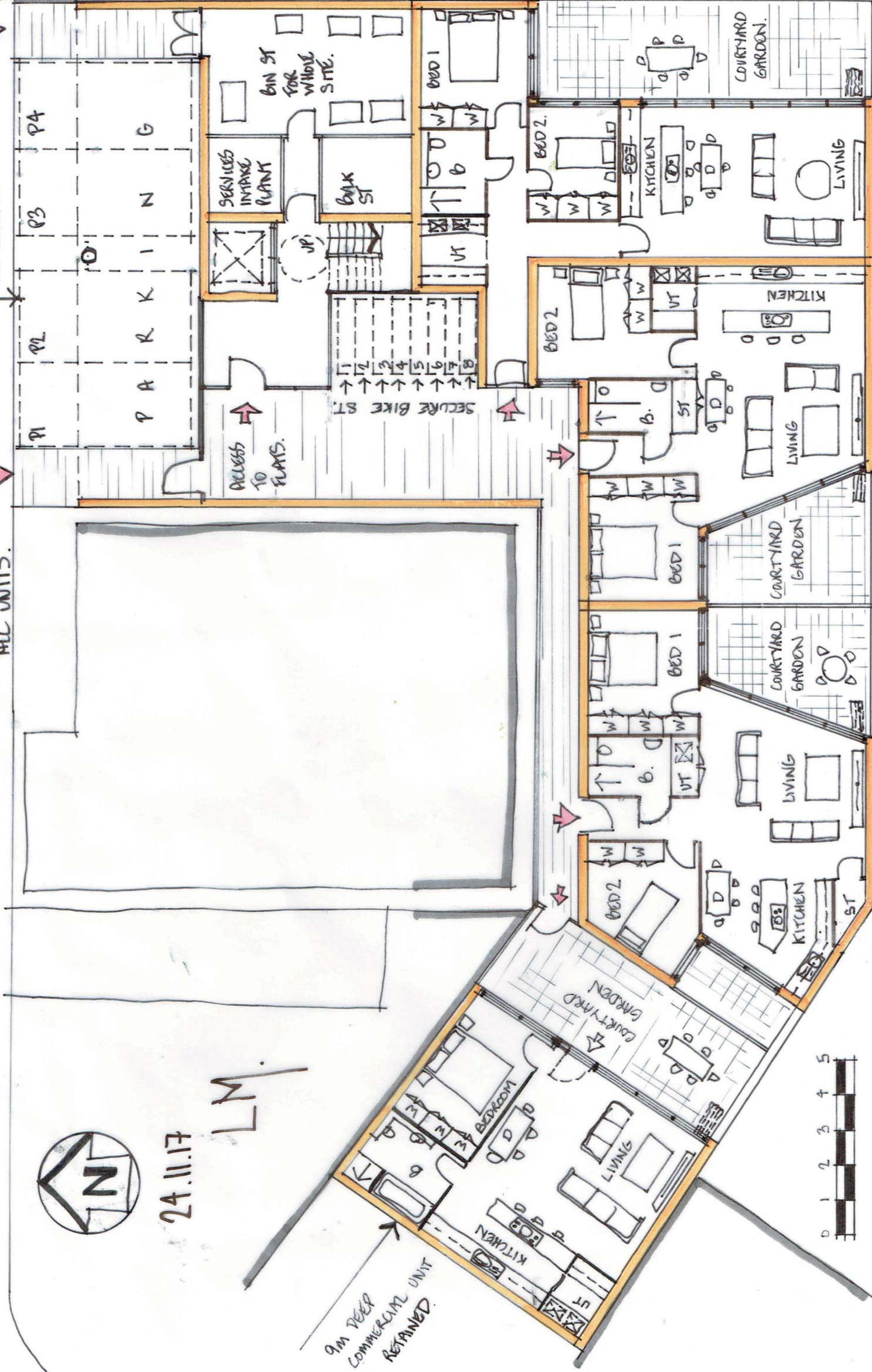
ENTRANCE TO
ALL UNITS.



BM ACCESS
VIA NORTH ST.



REVERSE
ACCESS.



3 PROSPECT STREET, CAVERSHAM - PROPOSED BF SKETCH PLAN

1:1000 A3

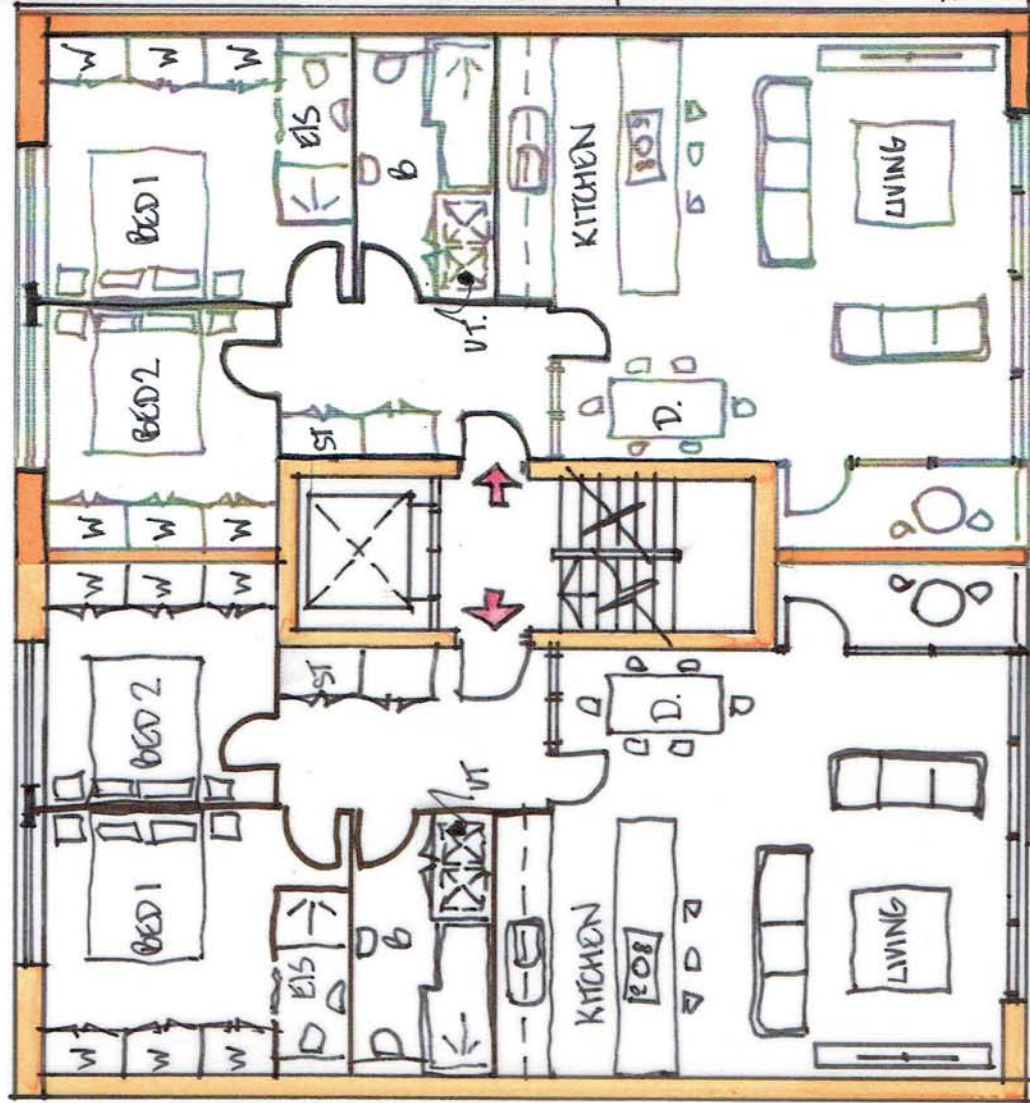
SKOB



24.11.17

LM.

EXISTING FIRST
FLOOR FLAT
SUBJECT TO
SURVEY.



INSET BALCONIES.



3 PROSPECT STREET, CAVERSHAM - PROPOSED FIRST FLOOR SKETCH PLAN 1:100E A3 SK07

1.20eA3 SKD4

Appendix C: Survey results

Caversham, Reading

Equipment - Norsonic 140 + Wet weather kit
Calibration - Before and after with no decernable drift
Location - Rear of development

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Thursday, January 25, 2018	11:45	(0:14:58.0)	51.7	80.4	58.0	53.2	47.5
Thursday, January 25, 2018	12:00	(0:14:58.0)	51.4	63.9	58.5	53.6	48.0
Thursday, January 25, 2018	12:15	(0:14:58.0)	50.5	70.4	55.0	51.8	48.0
Thursday, January 25, 2018	12:30	(0:14:58.0)	50.7	59.9	56.1	52.6	48.1
Thursday, January 25, 2018	12:45	(0:14:58.0)	50.3	62.3	55.2	52.0	47.9
Thursday, January 25, 2018	13:00	(0:14:57.0)	50.7	66.0	56.4	52.1	48.2
Thursday, January 25, 2018	13:15	(0:14:58.0)	52.4	71.7	61.4	53.7	48.0
Thursday, January 25, 2018	13:30	(0:14:58.0)	51.6	65.7	60.9	53.1	47.7
Thursday, January 25, 2018	13:45	(0:14:58.0)	49.9	57.5	54.0	51.7	47.7
Thursday, January 25, 2018	14:00	(0:14:58.0)	50.4	58.7	54.7	52.4	47.9
Thursday, January 25, 2018	14:15	(0:14:57.0)	50.3	62.8	55.0	51.9	47.9
Thursday, January 25, 2018	14:30	(0:14:58.0)	50.4	60.8	55.9	52.4	47.7
Thursday, January 25, 2018	14:45	(0:14:58.0)	52.2	69.9	62.2	53.3	48.0
Thursday, January 25, 2018	15:00	(0:14:58.0)	50.6	64.8	56.3	52.8	47.6
Thursday, January 25, 2018	15:15	(0:14:58.0)	50.0	63.5	56.2	52.0	47.1
Thursday, January 25, 2018	15:30	(0:14:58.0)	50.0	61.5	55.3	51.5	47.8
Thursday, January 25, 2018	15:45	(0:14:58.0)	50.7	63.2	55.9	52.4	48.4
Thursday, January 25, 2018	16:00	(0:14:58.0)	52.3	76.0	58.8	52.7	48.2
Thursday, January 25, 2018	16:15	(0:14:58.0)	51.3	62.3	56.4	53.3	48.6
Thursday, January 25, 2018	16:30	(0:14:58.0)	52.0	67.7	59.3	54.3	48.3
Thursday, January 25, 2018	16:45	(0:14:58.0)	49.8	61.4	54.9	51.7	47.5
Thursday, January 25, 2018	17:00	(0:14:58.0)	51.3	63.1	58.8	53.7	48.0
Thursday, January 25, 2018	17:15	(0:14:58.0)	52.8	68.6	61.4	55.0	48.4
Thursday, January 25, 2018	17:30	(0:14:57.0)	51.1	60.8	56.8	52.8	48.8
Thursday, January 25, 2018	17:45	(0:14:57.0)	52.5	72.2	60.3	52.6	48.9
Thursday, January 25, 2018	18:00	(0:14:58.0)	50.6	60.7	54.8	52.3	48.5
Thursday, January 25, 2018	18:15	(0:14:58.0)	50.8	61.4	56.3	52.6	48.5
Thursday, January 25, 2018	18:30	(0:14:58.0)	50.6	64.2	54.0	52.0	48.7
Thursday, January 25, 2018	18:45	(0:14:58.0)	51.4	66.7	58.6	53.1	48.6
Thursday, January 25, 2018	19:00	(0:14:58.0)	50.4	62.0	55.5	52.0	48.3
Thursday, January 25, 2018	19:15	(0:14:58.0)	58.0	77.9	72.6	55.5	49.0
Thursday, January 25, 2018	19:30	(0:14:58.0)	51.0	67.2	55.8	52.8	48.5
Thursday, January 25, 2018	19:45	(0:14:58.0)	51.1	60.9	56.0	53.0	48.7
Thursday, January 25, 2018	20:00	(0:14:58.0)	51.7	71.6	59.2	52.8	48.6
Thursday, January 25, 2018	20:15	(0:14:58.0)	50.8	59.7	56.9	52.3	48.3
Thursday, January 25, 2018	20:30	(0:14:58.0)	49.9	62.4	56.2	51.4	47.3
Thursday, January 25, 2018	20:45	(0:14:58.0)	51.4	74.9	57.0	51.2	46.9
Thursday, January 25, 2018	21:00	(0:14:58.0)	48.9	65.3	54.8	50.4	46.1
Thursday, January 25, 2018	21:15	(0:14:58.0)	49.0	65.6	54.6	50.2	46.1
Thursday, January 25, 2018	21:30	(0:14:58.0)	48.5	63.2	52.8	50.2	46.1
Thursday, January 25, 2018	21:45	(0:14:57.0)	48.0	57.5	52.1	49.8	45.3
Thursday, January 25, 2018	22:00	(0:14:58.0)	47.6	58.6	52.6	49.8	44.7
Thursday, January 25, 2018	22:15	(0:14:58.0)	46.7	55.6	52.2	48.6	44.1
Thursday, January 25, 2018	22:30	(0:14:58.0)	45.8	54.6	51.0	48.5	42.1
Thursday, January 25, 2018	22:45	(0:14:58.0)	47.9	68.8	56.5	49.6	43.3
Thursday, January 25, 2018	23:00	(0:14:57.0)	48.1	65.7	57.9	49.4	42.8
Thursday, January 25, 2018	23:15	(0:14:57.0)	45.2	65.5	51.0	47.8	40.7
Thursday, January 25, 2018	23:30	(0:14:58.0)	45.9	59.8	51.9	48.1	41.6
Thursday, January 25, 2018	23:45	(0:14:58.0)	45.2	63.4	53.9	47.5	39.8
Friday, January 26, 2018	0:00	(0:14:57.0)	45.5	62.2	52.9	48.1	41.3
Friday, January 26, 2018	0:15	(0:14:58.0)	46.3	68.6	54.0	46.2	39.6
Friday, January 26, 2018	0:30	(0:14:58.0)	44.2	55.5	51.5	46.4	41.0
Friday, January 26, 2018	0:45	(0:14:58.0)	45.9	67.2	58.1	46.0	39.5
Friday, January 26, 2018	1:00	(0:14:58.0)	41.8	51.8	47.4	44.0	38.9
Friday, January 26, 2018	1:15	(0:14:58.0)	42.0	58.3	49.7	44.7	38.0
Friday, January 26, 2018	1:30	(0:14:58.0)	40.4	51.0	47.9	43.2	36.3
Friday, January 26, 2018	1:45	(0:14:58.0)	42.1	57.4	49.1	44.7	37.2
Friday, January 26, 2018	2:00	(0:14:58.0)	38.8	50.8	47.1	41.4	34.6
Friday, January 26, 2018	2:15	(0:14:58.0)	38.6	55.1	48.0	40.3	34.8
Friday, January 26, 2018	2:30	(0:14:58.0)	41.3	51.9	49.1	45.7	35.0
Friday, January 26, 2018	2:45	(0:14:58.0)	40.1	51.6	47.7	43.1	35.1
Friday, January 26, 2018	3:00	(0:14:57.0)	44.9	55.9	54.4	48.4	37.1
Friday, January 26, 2018	3:15	(0:14:58.0)	39.7	49.9	46.6	42.0	36.3
Friday, January 26, 2018	3:30	(0:14:58.0)	41.5	53.2	49.4	44.3	37.1
Friday, January 26, 2018	3:45	(0:14:58.0)	40.4	54.2	48.6	43.3	36.3
Friday, January 26, 2018	4:00	(0:14:58.0)	39.5	57.0	48.7	42.7	35.0
Friday, January 26, 2018	4:15	(0:14:58.0)	42.3	62.4	51.3	44.8	36.4
Friday, January 26, 2018	4:30	(0:14:58.0)	42.5	53.2	50.2	46.3	35.6
Friday, January 26, 2018	4:45	(0:14:58.0)	43.1	57.4	52.1	46.8	36.1
Friday, January 26, 2018	5:00	(0:14:58.0)	43.6	56.0	51.6	46.5	38.2
Friday, January 26, 2018	5:15	(0:14:58.0)	42.3	57.2	50.6	46.1	33.9
Friday, January 26, 2018	5:30	(0:14:58.0)	43.3	56.4	51.8	47.1	35.1
Friday, January 26, 2018	5:45	(0:14:57.0)	46.1	65.2	54.3	48.7	39.6
Friday, January 26, 2018	6:00	(0:14:58.0)	51.7	72.6	63.7	53.9	39.2
Friday, January 26, 2018	6:15	(0:14:58.0)	50.1	68.0	61.4	51.6	41.4
Friday, January 26, 2018	6:30	(0:14:58.0)	52.5	70.0	62.7	55.6	44.3
Friday, January 26, 2018	6:45	(0:14:58.0)	50.5	64.8	58.5	52.5	45.8
Friday, January 26, 2018	7:00	(0:14:58.0)	50.9	65.4	58.7	52.9	46.5
Friday, January 26, 2018	7:15	(0:14:58.0)	49.8	59.9	54.8	51.7	46.6
Friday, January 26, 2018	7:30	(0:14:58.0)	50.6	64.8	57.4	52.5	46.8
Friday, January 26, 2018	7:45	(0:14:58.0)	51.0	64.4	56.9	53.0	48.0
Friday, January 26, 2018	8:00	(0:14:57.0)	51.6	70.7	57.5	53.7	48.3
Friday, January 26, 2018	8:15	(0:14:58.0)	53.4	78.3	62.4	53.4	47.9
Friday, January 26, 2018	8:30	(0:14:58.0)	54.3	70.8	66.2	56.3	48.0
Friday, January 26, 2018	8:45	(0:14:58.0)	55.9	78.1	69.0	53.7	47.3
Friday, January 26, 2018	9:00	(0:14:57.0)	51.3	63.4	59.0	54.0	47.1
Friday, January 26, 2018	9:15	(0:14:57.0)	50.4	63.6	57.5	52.7	46.5
Friday, January 26, 2018	9:30	(0:14:58.0)	52.1	66.8	62.6	53.3	46.8
Friday, January 26, 2018	9:45	(0:14:58.0)	51.0	67.6	58.5	53.0	46.5
Friday, January 26, 2018	10:00	(0:14:57.0)	51.6	64.7	60.9	53.4	47.2

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Friday, January 26, 2018	10:15	(0:14:57.0)	50.7	65.7	58.0	52.5	47.5
Friday, January 26, 2018	10:30	(0:14:58.0)	51.3	66.5	59.9	53.9	46.5
Friday, January 26, 2018	10:45	(0:14:58.0)	54.3	67.4	64.3	57.8	47.0
Friday, January 26, 2018	11:00	(0:14:57.0)	59.9	79.3	75.0	56.2	47.2
Friday, January 26, 2018	11:15	(0:14:58.0)	56.4	77.8	69.4	57.8	46.3
Friday, January 26, 2018	11:30	(0:14:57.0)	52.5	62.2	59.2	57.3	46.6
Friday, January 26, 2018	11:45	(0:14:58.0)	52.2	65.1	60.1	55.9	46.7
Friday, January 26, 2018	12:00	(0:14:55.0)	52.1	65.4	60.1	56.5	45.9
Friday, January 26, 2018	12:15	(0:14:58.0)	56.0	77.8	70.6	52.8	46.2
Friday, January 26, 2018	12:30	(0:14:58.0)	51.5	68.4	61.3	53.1	46.6
Friday, January 26, 2018	12:45	(0:14:58.0)	56.1	80.9	64.4	55.3	46.7
Friday, January 26, 2018	13:00	(0:14:58.0)	52.4	62.8	59.0	55.7	47.6
Friday, January 26, 2018	13:15	(0:14:58.0)	51.8	66.4	60.1	54.6	47.3
Friday, January 26, 2018	13:30	(0:14:58.0)	53.4	67.8	63.7	56.7	47.0
Friday, January 26, 2018	13:45	(0:14:58.0)	50.4	58.9	56.4	53.3	46.6
Friday, January 26, 2018	14:00	(0:14:57.0)	50.7	64.7	58.8	53.2	46.3
Friday, January 26, 2018	14:15	(0:14:57.0)	51.0	68.2	61.6	53.3	45.6
Friday, January 26, 2018	14:30	(0:14:57.0)	58.0	78.8	70.1	58.9	46.0
Friday, January 26, 2018	14:45	(0:14:58.0)	56.3	79.0	68.8	52.7	45.0
Friday, January 26, 2018	15:00	(0:14:58.0)	49.7	67.6	55.8	52.2	45.7
Friday, January 26, 2018	15:15	(0:14:57.0)	49.5	63.9	55.7	51.5	46.1
Friday, January 26, 2018	15:30	(0:14:57.0)	51.2	66.8	60.3	54.0	45.6
Friday, January 26, 2018	15:45	(0:14:57.0)	49.8	71.6	56.4	51.2	46.0
Friday, January 26, 2018	16:00	(0:14:58.0)	49.3	66.4	55.2	51.5	45.4
Friday, January 26, 2018	16:15	(0:14:58.0)	48.4	64.2	55.1	50.2	45.1
Friday, January 26, 2018	16:30	(0:14:57.0)	48.8	68.4	55.5	51.0	45.1
Friday, January 26, 2018	16:45	(0:14:58.0)	48.1	61.8	53.4	49.9	45.2
Friday, January 26, 2018	17:00	(0:14:58.0)	49.3	61.2	55.3	51.4	46.2
Friday, January 26, 2018	17:15	(0:14:58.0)	48.6	57.8	54.3	50.9	45.4
Friday, January 26, 2018	17:30	(0:14:58.0)	47.9	56.0	51.8	49.9	45.1
Friday, January 26, 2018	17:45	(0:14:57.0)	49.3	67.5	55.9	50.6	46.2
Friday, January 26, 2018	18:00	(0:14:58.0)	48.5	59.1	53.5	50.2	45.9
Friday, January 26, 2018	18:15	(0:14:58.0)	49.0	64.2	53.3	50.6	46.3
Friday, January 26, 2018	18:30	(0:14:58.0)	49.5	66.9	56.0	51.3	46.1
Friday, January 26, 2018	18:45	(0:14:58.0)	49.1	65.7	53.6	50.8	46.1
Friday, January 26, 2018	19:00	(0:14:55.0)	48.2	55.9	52.6	49.9	45.7
Friday, January 26, 2018	19:15	(0:14:58.0)	48.5	59.0	52.8	50.4	45.9
Friday, January 26, 2018	19:30	(0:14:57.0)	50.8	72.1	62.1	51.4	45.7
Friday, January 26, 2018	19:45	(0:14:57.0)	48.5	58.4	53.4	50.5	46.0
Friday, January 26, 2018	20:00	(0:14:57.0)	48.8	61.9	55.2	51.0	45.5
Friday, January 26, 2018	20:15	(0:14:57.0)	48.7	65.9	56.0	50.7	44.8
Friday, January 26, 2018	20:30	(0:14:57.0)	48.0	66.2	55.4	49.8	44.2
Friday, January 26, 2018	20:45	(0:14:58.0)	47.5	65.8	54.2	49.2	43.3
Friday, January 26, 2018	21:00	(0:14:57.0)	46.3	56.7	52.0	48.5	42.8
Friday, January 26, 2018	21:15	(0:14:57.0)	46.6	63.7	52.4	48.9	42.8
Friday, January 26, 2018	21:30	(0:14:57.0)	50.1	72.6	56.0	49.0	42.0
Friday, January 26, 2018	21:45	(0:14:57.0)	46.9	69.4	54.0	49.0	42.1
Friday, January 26, 2018	22:00	(0:14:57.0)	48.5	66.9	60.3	49.0	42.8
Friday, January 26, 2018	22:15	(0:14:57.0)	46.9	61.1	55.0	49.4	42.1
Friday, January 26, 2018	22:30	(0:14:58.0)	46.1	60.0	52.0	48.6	42.3
Friday, January 26, 2018	22:45	(0:14:57.0)	46.0	56.7	51.2	48.3	42.4
Friday, January 26, 2018	23:00	(0:14:57.0)	46.3	60.9	52.1	48.5	42.6
Friday, January 26, 2018	23:15	(0:14:57.0)	45.9	55.7	52.4	48.7	41.5
Friday, January 26, 2018	23:30	(0:14:57.0)	45.2	55.5	50.9	47.8	41.5
Friday, January 26, 2018	23:45	(0:14:57.0)	44.1	53.6	50.2	47.1	39.2
Saturday, January 27, 2018	0:00	(0:14:56.0)	46.6	69.3	54.7	48.5	39.4
Saturday, January 27, 2018	0:15	(0:14:58.0)	45.1	61.5	54.2	47.5	38.8
Saturday, January 27, 2018	0:30	(0:14:58.0)	44.3	63.6	51.8	46.8	39.3
Saturday, January 27, 2018	0:45	(0:14:58.0)	45.7	60.8	55.5	48.5	38.9
Saturday, January 27, 2018	1:00	(0:14:58.0)	46.8	61.0	58.2	48.9	38.9
Saturday, January 27, 2018	1:15	(0:14:58.0)	42.7	55.9	49.6	45.6	37.4
Saturday, January 27, 2018	1:30	(0:14:58.0)	44.2	58.3	52.1	47.3	38.0
Saturday, January 27, 2018	1:45	(0:14:58.0)	46.6	61.2	57.8	49.3	38.5
Saturday, January 27, 2018	2:00	(0:14:57.0)	41.9	54.0	49.2	44.8	37.7
Saturday, January 27, 2018	2:15	(0:14:58.0)	44.8	59.3	57.2	46.8	37.1
Saturday, January 27, 2018	2:30	(0:14:58.0)	45.2	59.8	57.6	46.9	38.4
Saturday, January 27, 2018	2:45	(0:14:58.0)	45.1	53.3	51.4	48.5	39.7
Saturday, January 27, 2018	3:00	(0:14:58.0)	42.4	52.5	49.0	45.0	38.7
Saturday, January 27, 2018	3:15	(0:14:58.0)	42.2	52.7	48.5	44.6	38.7
Saturday, January 27, 2018	3:30	(0:14:57.0)	43.4	56.8	50.3	45.9	39.5
Saturday, January 27, 2018	3:45	(0:14:58.0)	44.0	55.1	50.0	46.4	40.6
Saturday, January 27, 2018	4:00	(0:14:58.0)	41.9	49.9	47.0	44.0	39.5
Saturday, January 27, 2018	4:15	(0:14:58.0)	43.6	53.9	50.2	47.1	39.1
Saturday, January 27, 2018	4:30	(0:14:57.0)	43.4	54.8	52.4	46.1	39.2
Saturday, January 27, 2018	4:45	(0:14:58.0)	44.4	54.2	50.6	47.2	40.7
Saturday, January 27, 2018	5:00	(0:14:58.0)	45.0	55.6	51.5	47.6	41.3
Saturday, January 27, 2018	5:15	(0:14:58.0)	45.6	54.4	51.0	48.1	42.3
Saturday, January 27, 2018	5:30	(0:14:58.0)	44.8	53.1	49.7	47.0	42.3
Saturday, January 27, 2018	5:45	(0:14:58.0)	47.3	57.7	53.5	49.4	43.9
Saturday, January 27, 2018	6:00	(0:14:58.0)	46.9	55.9	51.5	49.1	43.8
Saturday, January 27, 2018	6:15	(0:14:58.0)	47.5	69.2	51.4	49.3	45.0
Saturday, January 27, 2018	6:30	(0:14:58.0)	47.8	55.5	52.1	49.6	45.6
Saturday, January 27, 2018	6:45	(0:14:58.0)	48.3	60.2	52.9	50.3	45.2
Saturday, January 27, 2018	7:00	(0:14:58.0)	47.5	56.8	52.0	49.6	44.6
Saturday, January 27, 2018	7:15	(0:14:58.0)	48.9	66.1	53.4	50.7	45.8
Saturday, January 27, 2018	7:30	(0:14:58.0)	49.1	57.6	54.2	51.3	46.2
Saturday, January 27, 2018	7:45	(0:14:58.0)	49.8	59.8	55.3	51.9	46.4
Saturday, January 27, 2018	8:00	(0:14:58.0)	51.6	71.0	62.2	53.2	45.9
Saturday, January 27, 2018	8:15	(0:14:58.0)	50.7	58.9	54.7	52.6	48.3
Saturday, January 27, 2018	8:30	(0:14:58.0)	51.3	63.7	55.6	53.0	48.9
Saturday, January 27, 2018	8:45	(0:14:57.0)	51.8	61.6	56.5	53.4	49.7
Saturday, January 27, 2018	9:00	(0:14:58.0)	51.9	64.1	56.8	53.7	49.6
Saturday, January 27, 2018	9:15	(0:14:58.0)	51.9	67.2	57.7	53.6	49.2
Saturday, January 27, 2018	9:30	(0:14:57.0)	53.6	69.1	63.3	54.7	49.7
Saturday, January 27, 2018	9:45	(0:14:58.0)	58.1	79.1	72.6	56.7	49.5
Saturday, January 27, 2018	10:00	(0:14:58.0)	51.5	67.5	56.4	53.3	49.2
Saturday, January 27, 2018	10:15	(0:14:58.0)	51.5	66.9	56.7	53.1	49.3
Saturday, January 27, 2018	10:30	(0:14:56.0)	51.8	65.9	57.0	53.6	49.5

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Saturday, January 27, 2018	10:45	(0:14:58.0)	52.7	68.0	61.2	54.2	49.7
Saturday, January 27, 2018	11:00	(0:14:58.0)	54.5	77.1	65.2	54.9	49.4
Saturday, January 27, 2018	11:15	(0:14:58.0)	50.6	60.8	54.3	52.2	48.8
Saturday, January 27, 2018	11:30	(0:14:57.0)	52.5	73.0	58.5	53.8	49.9
Saturday, January 27, 2018	11:45	(0:14:58.0)	52.2	70.6	57.1	53.4	50.1
Saturday, January 27, 2018	12:00	(0:14:58.0)	52.6	68.9	59.9	53.8	50.0
Saturday, January 27, 2018	12:15	(0:14:58.0)	51.8	60.2	56.7	53.8	49.6
Saturday, January 27, 2018	12:30	(0:14:57.0)	53.8	69.0	61.2	56.1	50.5
Saturday, January 27, 2018	12:45	(0:14:57.0)	52.5	64.0	58.3	54.3	50.3
Saturday, January 27, 2018	13:00	(0:14:58.0)	52.0	61.2	56.7	53.4	50.1
Saturday, January 27, 2018	13:15	(0:14:58.0)	58.5	79.2	72.3	57.4	49.6
Saturday, January 27, 2018	13:30	(0:14:57.0)	52.0	62.9	55.5	53.4	50.3
Saturday, January 27, 2018	13:45	(0:14:57.0)	52.4	63.9	56.4	54.1	50.5
Saturday, January 27, 2018	14:00	(0:14:57.0)	52.1	58.0	55.5	53.7	50.3
Saturday, January 27, 2018	14:15	(0:14:57.0)	58.9	80.1	71.7	57.2	50.2
Saturday, January 27, 2018	14:30	(0:14:58.0)	52.0	61.3	55.9	53.3	50.2
Saturday, January 27, 2018	14:45	(0:14:58.0)	56.5	78.7	67.8	55.5	49.8
Saturday, January 27, 2018	15:00	(0:14:57.0)	52.1	65.1	58.4	53.9	49.3
Saturday, January 27, 2018	15:15	(0:14:58.0)	52.0	66.9	59.1	53.5	49.1
Saturday, January 27, 2018	15:30	(0:14:58.0)	52.3	72.9	59.4	52.8	49.4
Saturday, January 27, 2018	15:45	(0:14:57.0)	51.6	65.9	56.8	53.1	49.3
Saturday, January 27, 2018	16:00	(0:14:56.0)	51.2	58.0	55.1	52.8	49.2
Saturday, January 27, 2018	16:15	(0:14:57.0)	50.6	66.4	54.3	51.9	48.8
Saturday, January 27, 2018	16:30	(0:14:57.0)	50.8	60.7	54.4	52.5	48.9
Saturday, January 27, 2018	16:45	(0:14:57.0)	50.9	67.1	56.8	52.3	48.6
Saturday, January 27, 2018	17:00	(0:14:57.0)	51.9	68.8	59.1	53.4	49.0
Saturday, January 27, 2018	17:15	(0:14:57.0)	50.7	71.5	54.3	51.8	48.7
Saturday, January 27, 2018	17:30	(0:14:57.0)	52.1	64.7	60.0	54.2	48.5
Saturday, January 27, 2018	17:45	(0:14:58.0)	50.8	67.6	54.7	52.2	48.8
Saturday, January 27, 2018	18:00	(0:14:57.0)	51.0	57.4	54.7	52.6	49.1
Saturday, January 27, 2018	18:15	(0:14:57.0)	51.2	66.8	57.7	52.4	48.5
Saturday, January 27, 2018	18:30	(0:14:57.0)	51.4	66.8	56.9	53.1	48.8
Saturday, January 27, 2018	18:45	(0:14:58.0)	54.2	75.6	65.3	53.4	48.4
Saturday, January 27, 2018	19:00	(0:14:57.0)	50.8	63.8	55.4	52.5	48.5
Saturday, January 27, 2018	19:15	(0:14:58.0)	50.3	58.8	54.1	52.0	48.2
Saturday, January 27, 2018	19:30	(0:14:56.0)	50.3	60.2	55.4	52.2	47.7
Saturday, January 27, 2018	19:45	(0:14:58.0)	50.7	63.2	56.9	52.8	47.5
Saturday, January 27, 2018	20:00	(0:14:58.0)	59.8	83.1	74.6	55.7	47.1
Saturday, January 27, 2018	20:15	(0:14:57.0)	50.2	64.2	56.4	52.1	47.0
Saturday, January 27, 2018	20:30	(0:14:57.0)	49.3	70.1	54.2	51.3	45.9
Saturday, January 27, 2018	20:45	(0:14:58.0)	48.9	62.1	53.8	51.0	46.0
Saturday, January 27, 2018	21:00	(0:14:58.0)	48.7	58.2	54.0	50.5	46.0
Saturday, January 27, 2018	21:15	(0:14:57.0)	49.2	59.1	55.5	51.5	46.4
Saturday, January 27, 2018	21:30	(0:14:57.0)	48.3	57.3	53.2	50.3	45.7
Saturday, January 27, 2018	21:45	(0:14:57.0)	58.1	83.2	71.6	52.3	45.1
Saturday, January 27, 2018	22:00	(0:14:58.0)	48.7	61.7	55.0	51.0	44.7
Saturday, January 27, 2018	22:15	(0:14:57.0)	48.6	62.4	54.4	50.5	45.3
Saturday, January 27, 2018	22:30	(0:14:57.0)	48.8	67.9	56.5	50.5	45.3
Saturday, January 27, 2018	22:45	(0:14:57.0)	48.7	62.1	55.4	50.6	45.7
Saturday, January 27, 2018	23:00	(0:14:58.0)	48.3	56.9	53.4	50.5	45.2
Saturday, January 27, 2018	23:15	(0:14:58.0)	47.5	59.0	53.1	49.6	43.6
Saturday, January 27, 2018	23:30	(0:14:56.0)	46.3	61.9	51.7	48.6	42.1
Saturday, January 27, 2018	23:45	(0:14:58.0)	46.3	56.1	51.7	48.9	42.1
Sunday, January 28, 2018	0:00	(0:14:57.0)	47.8	69.5	54.8	49.1	42.0
Sunday, January 28, 2018	0:15	(0:14:58.0)	48.1	67.9	58.6	49.3	42.3
Sunday, January 28, 2018	0:30	(0:14:58.0)	47.9	71.9	53.3	48.6	41.4
Sunday, January 28, 2018	0:45	(0:14:58.0)	44.5	54.1	50.6	47.3	40.4
Sunday, January 28, 2018	1:00	(0:14:58.0)	42.5	52.7	50.1	45.9	37.1
Sunday, January 28, 2018	1:15	(0:14:58.0)	43.7	62.0	50.6	46.7	37.0
Sunday, January 28, 2018	1:30	(0:14:58.0)	42.4	56.9	51.0	45.9	36.2
Sunday, January 28, 2018	1:45	(0:14:58.0)	42.1	56.9	50.6	45.1	36.4
Sunday, January 28, 2018	2:00	(0:14:58.0)	43.3	64.1	51.1	46.2	36.0
Sunday, January 28, 2018	2:15	(0:14:58.0)	41.6	54.5	49.9	45.5	35.2
Sunday, January 28, 2018	2:30	(0:14:58.0)	40.9	50.4	48.0	44.5	35.8
Sunday, January 28, 2018	2:45	(0:14:57.0)	40.9	57.9	49.0	44.2	35.8
Sunday, January 28, 2018	3:00	(0:14:58.0)	41.2	53.9	49.3	44.7	35.6
Sunday, January 28, 2018	3:15	(0:14:58.0)	43.5	64.5	54.5	44.7	35.2
Sunday, January 28, 2018	3:30	(0:14:58.0)	42.9	64.6	53.0	43.2	35.6
Sunday, January 28, 2018	3:45	(0:14:58.0)	40.6	54.0	49.3	44.5	34.7
Sunday, January 28, 2018	4:00	(0:14:57.0)	38.0	52.0	47.4	41.2	32.7
Sunday, January 28, 2018	4:15	(0:14:58.0)	40.0	55.1	49.1	43.7	33.0
Sunday, January 28, 2018	4:30	(0:14:58.0)	39.4	53.8	48.9	43.1	33.2
Sunday, January 28, 2018	4:45	(0:14:58.0)	38.0	53.0	47.7	40.9	32.6
Sunday, January 28, 2018	5:00	(0:14:58.0)	39.1	52.0	48.6	42.6	33.4
Sunday, January 28, 2018	5:15	(0:14:57.0)	41.1	57.8	50.2	45.0	34.2
Sunday, January 28, 2018	5:30	(0:14:58.0)	39.3	52.1	48.1	42.3	34.2
Sunday, January 28, 2018	5:45	(0:14:58.0)	41.8	57.5	50.8	44.8	35.9
Sunday, January 28, 2018	6:00	(0:14:58.0)	41.8	59.0	49.7	45.2	36.0
Sunday, January 28, 2018	6:15	(0:14:58.0)	42.9	57.4	52.2	46.2	36.7
Sunday, January 28, 2018	6:30	(0:14:58.0)	43.7	55.6	51.5	46.9	37.7
Sunday, January 28, 2018	6:45	(0:14:58.0)	48.8	71.7	57.4	48.3	38.8
Sunday, January 28, 2018	7:00	(0:14:58.0)	45.0	56.3	51.4	48.0	39.9
Sunday, January 28, 2018	7:15	(0:14:57.0)	45.5	56.0	51.5	48.3	41.1
Sunday, January 28, 2018	7:30	(0:14:58.0)	46.6	56.8	53.3	49.5	41.4
Sunday, January 28, 2018	7:45	(0:14:58.0)	47.0	60.3	54.3	49.5	42.0
Sunday, January 28, 2018	8:00	(0:14:58.0)	47.1	63.5	55.0	50.0	41.3
Sunday, January 28, 2018	8:15	(0:14:58.0)	48.0	73.1	53.1	49.5	42.8
Sunday, January 28, 2018	8:30	(0:14:57.0)	48.1	57.6	53.5	50.6	44.1
Sunday, January 28, 2018	8:45	(0:14:58.0)	49.1	61.5	56.1	51.4	45.5
Sunday, January 28, 2018	9:00	(0:14:58.0)	50.4	63.9	59.0	52.3	46.2
Sunday, January 28, 2018	9:15	(0:14:57.0)	51.9	70.0	61.1	53.6	47.2
Sunday, January 28, 2018	9:30	(0:14:58.0)	50.3	62.0	55.2	52.1	47.8
Sunday, January 28, 2018	9:45	(0:14:58.0)	53.1	68.5	61.2	55.8	48.8
Sunday, January 28, 2018	10:00	(0:14:57.0)	53.3	64.7	60.5	56.0	49.4
Sunday, January 28, 2018	10:15	(0:14:58.0)	57.8	80.6	70.9	56.9	48.9
Sunday, January 28, 2018	10:30	(0:14:58.0)	52.3	65.3	59.7	54.7	48.7
Sunday, January 28, 2018	10:45	(0:14:57.0)	52.8	70.2	61.5	55.0	48.4
Sunday, January 28, 2018	11:00	(0:14:58.0)	59.5	82.3	73.8	55.3	47.9

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Sunday, January 28, 2018	11:15	(0:14:58.0)	51.6	65.2	59.9	53.6	47.9
Sunday, January 28, 2018	11:30	(0:14:57.0)	51.0	63.4	58.2	53.0	48.0
Sunday, January 28, 2018	11:45	(0:14:57.0)	50.6	62.1	56.2	52.1	48.3
Sunday, January 28, 2018	12:00	(0:14:57.0)	50.0	60.5	55.6	51.8	47.7
Sunday, January 28, 2018	12:15	(0:14:57.0)	51.4	64.1	58.5	53.6	48.1
Sunday, January 28, 2018	12:30	(0:14:57.0)	50.2	64.1	54.6	51.8	47.9
Sunday, January 28, 2018	12:45	(0:14:57.0)	50.5	68.2	56.6	52.4	47.7
Sunday, January 28, 2018	13:00	(0:14:57.0)	57.9	80.2	70.7	57.6	48.6
Sunday, January 28, 2018	13:15	(0:14:57.0)	57.2	78.7	71.2	55.6	47.7
Sunday, January 28, 2018	13:30	(0:14:58.0)	50.4	62.0	55.7	52.2	48.1
Sunday, January 28, 2018	13:45	(0:14:57.0)	55.1	75.6	68.2	54.4	47.8
Sunday, January 28, 2018	14:00	(0:14:58.0)	51.2	74.8	56.0	51.7	47.8
Sunday, January 28, 2018	14:15	(0:14:58.0)	50.4	62.4	56.2	52.2	47.6
Sunday, January 28, 2018	14:30	(0:14:57.0)	50.5	64.5	56.4	52.4	47.8
Sunday, January 28, 2018	14:45	(0:14:57.0)	50.1	65.3	57.0	51.7	47.0
Sunday, January 28, 2018	15:00	(0:14:57.0)	51.6	72.6	59.8	53.2	48.0
Sunday, January 28, 2018	15:15	(0:14:58.0)	56.0	85.4	69.2	53.0	47.4
Sunday, January 28, 2018	15:30	(0:14:57.0)	53.0	77.0	64.1	51.6	46.6
Sunday, January 28, 2018	15:45	(0:14:58.0)	52.4	77.6	58.9	52.5	47.7
Sunday, January 28, 2018	16:00	(0:14:58.0)	56.0	77.2	67.7	56.6	47.8
Sunday, January 28, 2018	16:15	(0:14:57.0)	51.8	66.3	60.5	53.6	48.0
Sunday, January 28, 2018	16:30	(0:14:58.0)	53.8	66.7	63.3	57.2	47.9
Sunday, January 28, 2018	16:45	(0:14:58.0)	52.5	66.2	60.4	54.8	48.2
Sunday, January 28, 2018	17:00	(0:14:57.0)	51.1	65.7	58.7	52.7	47.7
Sunday, January 28, 2018	17:15	(0:14:58.0)	51.3	69.0	58.3	53.3	47.4
Sunday, January 28, 2018	17:30	(0:14:57.0)	52.6	72.3	61.4	54.7	48.0
Sunday, January 28, 2018	17:45	(0:14:57.0)	52.9	72.1	61.6	54.4	48.2
Sunday, January 28, 2018	18:00	(0:14:57.0)	53.1	72.5	63.8	53.9	48.3
Sunday, January 28, 2018	18:15	(0:14:58.0)	53.4	74.5	62.9	54.9	48.4
Sunday, January 28, 2018	18:30	(0:14:57.0)	50.4	62.9	55.9	52.5	47.3
Sunday, January 28, 2018	18:45	(0:14:58.0)	51.7	69.7	60.4	53.1	47.9
Sunday, January 28, 2018	19:00	(0:14:58.0)	51.8	67.5	60.7	53.7	47.2
Sunday, January 28, 2018	19:15	(0:14:57.0)	52.5	68.9	62.5	54.2	47.6
Sunday, January 28, 2018	19:30	(0:14:57.0)	51.1	69.4	59.8	52.5	46.5
Sunday, January 28, 2018	19:45	(0:14:57.0)	50.7	73.3	58.2	52.4	46.0
Sunday, January 28, 2018	20:00	(0:14:57.0)	49.3	62.5	55.8	51.4	45.9
Sunday, January 28, 2018	20:15	(0:14:57.0)	48.8	61.8	55.8	51.0	45.0
Sunday, January 28, 2018	20:30	(0:14:57.0)	49.5	65.7	58.4	51.8	44.8
Sunday, January 28, 2018	20:45	(0:14:57.0)	48.0	61.3	55.2	50.2	44.4
Sunday, January 28, 2018	21:00	(0:14:57.0)	46.8	62.0	52.9	49.1	43.2
Sunday, January 28, 2018	21:15	(0:14:57.0)	46.4	57.6	52.1	48.8	43.3
Sunday, January 28, 2018	21:30	(0:14:57.0)	46.5	57.0	53.0	48.9	42.9
Sunday, January 28, 2018	21:45	(0:14:57.0)	46.3	59.8	51.7	48.8	42.8
Sunday, January 28, 2018	22:00	(0:14:58.0)	45.7	60.2	51.4	48.1	42.1
Sunday, January 28, 2018	22:15	(0:14:57.0)	46.8	57.7	51.3	48.9	43.3
Sunday, January 28, 2018	22:30	(0:14:58.0)	45.6	56.2	51.4	48.2	41.8
Sunday, January 28, 2018	22:45	(0:14:58.0)	47.2	65.2	56.1	49.4	42.3
Sunday, January 28, 2018	23:00	(0:14:57.0)	46.5	61.5	55.3	49.3	40.3
Sunday, January 28, 2018	23:15	(0:14:58.0)	44.1	58.9	51.6	46.9	39.4
Sunday, January 28, 2018	23:30	(0:14:57.0)	44.0	57.3	51.8	46.9	38.3
Sunday, January 28, 2018	23:45	(0:14:57.0)	43.0	59.6	50.2	45.6	38.0
Monday, January 29, 2018	0:00	(0:14:57.0)	43.5	61.1	52.7	46.1	37.1
Monday, January 29, 2018	0:15	(0:14:58.0)	42.7	56.6	50.5	45.7	37.8
Monday, January 29, 2018	0:30	(0:14:58.0)	43.0	60.3	51.7	46.0	37.4
Monday, January 29, 2018	0:45	(0:14:58.0)	44.6	65.2	54.1	47.5	38.2
Monday, January 29, 2018	1:00	(0:14:58.0)	44.5	66.8	55.4	46.6	36.6
Monday, January 29, 2018	1:15	(0:14:57.0)	46.9	65.9	58.6	49.0	37.2
Monday, January 29, 2018	1:30	(0:14:58.0)	45.1	62.0	57.2	47.6	35.3
Monday, January 29, 2018	1:45	(0:14:57.0)	43.3	62.7	53.1	46.4	35.3
Monday, January 29, 2018	2:00	(0:14:58.0)	43.6	64.5	51.3	45.2	36.5
Monday, January 29, 2018	2:15	(0:14:58.0)	41.4	60.7	50.1	43.7	36.0
Monday, January 29, 2018	2:30	(0:14:58.0)	40.1	56.9	49.3	43.0	34.2
Monday, January 29, 2018	2:45	(0:14:56.0)	42.7	59.7	53.0	45.6	35.7
Monday, January 29, 2018	3:00	(0:14:58.0)	42.9	57.6	52.6	45.9	37.0
Monday, January 29, 2018	3:15	(0:14:57.0)	43.6	62.0	54.1	46.3	36.8
Monday, January 29, 2018	3:30	(0:14:58.0)	44.0	61.4	53.9	47.0	36.8
Monday, January 29, 2018	3:45	(0:14:57.0)	44.7	63.3	55.3	47.9	36.5
Monday, January 29, 2018	4:00	(0:14:58.0)	43.7	61.7	54.1	45.8	37.8
Monday, January 29, 2018	4:15	(0:14:57.0)	43.4	60.3	53.1	46.8	36.9
Monday, January 29, 2018	4:30	(0:14:58.0)	42.4	55.0	50.1	45.2	38.0
Monday, January 29, 2018	4:45	(0:14:58.0)	43.0	58.5	52.4	45.2	38.6
Monday, January 29, 2018	5:00	(0:14:58.0)	43.9	52.2	50.2	46.7	39.6
Monday, January 29, 2018	5:15	(0:14:57.0)	44.8	58.8	52.6	47.6	40.5
Monday, January 29, 2018	5:30	(0:14:58.0)	46.3	61.1	53.7	48.7	42.0
Monday, January 29, 2018	5:45	(0:14:57.0)	48.5	63.8	56.6	50.7	44.1
Monday, January 29, 2018	6:00	(0:14:58.0)	47.6	58.0	53.2	50.0	44.2
Monday, January 29, 2018	6:15	(0:14:57.0)	49.1	59.2	55.1	51.1	45.8
Monday, January 29, 2018	6:30	(0:14:58.0)	49.6	59.9	54.6	51.8	46.5
Monday, January 29, 2018	6:45	(0:14:58.0)	51.5	68.9	58.8	53.0	47.9
Monday, January 29, 2018	7:00	(0:14:57.0)	51.2	64.0	55.7	52.9	48.6
Monday, January 29, 2018	7:15	(0:14:58.0)	51.7	77.5	55.4	52.8	48.4
Monday, January 29, 2018	7:30	(0:14:58.0)	50.8	60.5	55.9	52.7	48.2
Monday, January 29, 2018	7:45	(0:14:57.0)	50.4	63.7	56.0	52.3	47.8
Monday, January 29, 2018	8:00	(0:14:58.0)	51.8	70.2	59.9	53.3	47.8
Monday, January 29, 2018	8:15	(0:14:58.0)	52.6	66.9	61.4	54.3	48.9
Monday, January 29, 2018	8:30	(0:14:58.0)	51.8	65.1	57.7	53.8	49.0
Monday, January 29, 2018	8:45	(0:14:58.0)	51.0	69.6	56.1	52.6	48.5
Monday, January 29, 2018	9:00	(0:14:57.0)	51.3	63.8	56.6	53.1	48.6
Monday, January 29, 2018	9:15	(0:14:58.0)	50.7	60.1	55.9	52.5	48.2
Monday, January 29, 2018	9:30	(0:14:57.0)	51.7	62.2	58.1	54.1	48.4
Monday, January 29, 2018	9:45	(0:14:58.0)	50.1	58.4	55.4	51.9	47.8
Monday, January 29, 2018	10:00	(0:14:58.0)	51.3	66.8	57.0	52.9	48.6
Monday, January 29, 2018	10:15	(0:14:58.0)	51.8	68.9	58.7	53.3	48.4
Monday, January 29, 2018	10:30	(0:14:57.0)	54.3	73.8	65.2	55.6	48.6
Monday, January 29, 2018	10:45	(0:14:58.0)	51.7	68.0	60.0	53.6	48.1
Monday, January 29, 2018	11:00	(0:14:58.0)	53.3	76.8	60.6	54.5	49.0
Monday, January 29, 2018	11:15	(0:14:58.0)	55.9	75.5	67.7	55.1	49.4
Monday, January 29, 2018	11:30	(0:14:57.0)	51.6	61.9	56.9	53.3	49.3

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Monday, January 29, 2018	11:45	(0:14:58.0)	51.5	61.6	57.0	53.5	48.8
Monday, January 29, 2018	12:00	(0:14:58.0)	51.8	64.7	58.0	54.1	48.5
Monday, January 29, 2018	12:15	(0:14:58.0)	52.8	70.9	61.6	54.7	48.3
Monday, January 29, 2018	12:30	(0:14:57.0)	51.0	67.4	56.1	52.7	48.4
Monday, January 29, 2018	12:45	(0:14:57.0)	50.9	60.9	56.5	52.7	48.3
Monday, January 29, 2018	13:00	(0:14:58.0)	51.8	64.1	57.1	54.1	48.8
Monday, January 29, 2018	13:15	(0:14:58.0)	51.4	67.8	56.9	52.9	48.5
Monday, January 29, 2018	13:30	(0:14:58.0)	52.0	73.7	60.1	53.3	48.3
Monday, January 29, 2018	13:45	(0:14:58.0)	50.5	62.6	55.8	52.4	47.7
Monday, January 29, 2018	14:00	(0:14:57.0)	50.3	63.2	55.5	52.0	47.5
Monday, January 29, 2018	14:15	(0:14:58.0)	50.1	65.0	55.6	52.0	47.2
Monday, January 29, 2018	14:30	(0:14:58.0)	49.7	61.9	55.8	51.7	46.6
Monday, January 29, 2018	14:45	(0:14:58.0)	55.3	77.5	67.1	54.1	47.2
Monday, January 29, 2018	15:00	(0:14:58.0)	49.7	62.6	54.9	52.0	46.6
Monday, January 29, 2018	15:15	(0:14:58.0)	49.3	64.0	54.5	51.2	46.7
Monday, January 29, 2018	15:30	(0:14:58.0)	52.5	76.0	65.1	51.7	46.1
Monday, January 29, 2018	15:45	(0:14:58.0)	49.1	60.8	55.5	51.0	45.8
Monday, January 29, 2018	16:00	(0:14:58.0)	48.8	57.7	54.2	51.1	45.4
Monday, January 29, 2018	16:15	(0:14:57.0)	52.1	67.0	62.9	53.3	46.0
Monday, January 29, 2018	16:30	(0:14:58.0)	48.9	60.7	54.8	51.2	45.2
Monday, January 29, 2018	16:45	(0:14:58.0)	50.4	75.3	56.9	51.5	46.2
Monday, January 29, 2018	17:00	(0:14:57.0)	50.5	66.8	61.2	51.5	45.8
Monday, January 29, 2018	17:15	(0:14:58.0)	49.6	73.1	58.0	50.2	45.0
Monday, January 29, 2018	17:30	(0:14:58.0)	48.7	63.0	54.5	50.6	45.5
Monday, January 29, 2018	17:45	(0:14:57.0)	58.1	80.7	72.0	51.2	45.6
Monday, January 29, 2018	18:00	(0:14:58.0)	55.5	76.8	69.9	51.2	45.3
Monday, January 29, 2018	18:15	(0:14:58.0)	58.1	79.6	73.2	51.7	46.0
Monday, January 29, 2018	18:30	(0:14:57.0)	49.7	62.3	56.0	51.3	46.6
Monday, January 29, 2018	18:45	(0:14:57.0)	48.7	58.0	52.9	50.6	45.7
Monday, January 29, 2018	19:00	(0:14:57.0)	48.9	57.9	53.5	50.8	46.2
Monday, January 29, 2018	19:15	(0:14:58.0)	48.6	59.6	53.3	50.6	45.4
Monday, January 29, 2018	19:30	(0:14:57.0)	49.2	66.3	55.0	51.1	45.8
Monday, January 29, 2018	19:45	(0:14:57.0)	48.6	60.1	53.6	50.8	45.7
Monday, January 29, 2018	20:00	(0:14:58.0)	48.6	57.6	53.6	50.7	45.2
Monday, January 29, 2018	20:15	(0:14:57.0)	51.0	74.1	57.9	51.4	44.9
Monday, January 29, 2018	20:30	(0:14:58.0)	47.4	59.0	53.1	49.7	43.7
Monday, January 29, 2018	20:45	(0:14:57.0)	47.5	60.7	54.0	49.8	43.1
Monday, January 29, 2018	21:00	(0:14:57.0)	47.3	62.1	53.3	49.6	42.6
Monday, January 29, 2018	21:15	(0:14:58.0)	46.9	60.3	54.1	49.2	42.0
Monday, January 29, 2018	21:30	(0:14:57.0)	46.5	65.6	53.7	48.5	41.3
Monday, January 29, 2018	21:45	(0:14:57.0)	46.1	57.7	51.4	48.7	42.0
Monday, January 29, 2018	22:00	(0:14:58.0)	46.0	57.6	54.7	48.3	40.7
Monday, January 29, 2018	22:15	(0:14:57.0)	45.4	57.0	50.9	48.0	41.7
Monday, January 29, 2018	22:30	(0:14:57.0)	44.8	53.9	50.7	47.6	40.3
Monday, January 29, 2018	22:45	(0:14:58.0)	44.7	58.6	50.6	47.1	40.9
Monday, January 29, 2018	23:00	(0:14:58.0)	44.3	56.0	50.7	47.1	40.3
Monday, January 29, 2018	23:15	(0:14:57.0)	43.7	54.8	50.7	47.1	37.6
Monday, January 29, 2018	23:30	(0:14:57.0)	43.4	61.0	52.1	46.1	37.1
Monday, January 29, 2018	23:45	(0:14:57.0)	41.9	56.7	51.2	45.1	35.2
Tuesday, January 30, 2018	0:00	(0:14:57.0)	42.5	59.5	51.8	45.6	35.6
Tuesday, January 30, 2018	0:15	(0:14:58.0)	40.7	55.6	50.0	44.4	33.2
Tuesday, January 30, 2018	0:30	(0:14:57.0)	37.4	51.0	45.6	40.5	32.5
Tuesday, January 30, 2018	0:45	(0:14:58.0)	41.0	52.4	49.6	44.1	36.1
Tuesday, January 30, 2018	1:00	(0:14:58.0)	39.1	53.2	47.6	42.5	32.9
Tuesday, January 30, 2018	1:15	(0:14:58.0)	39.0	55.8	48.3	41.5	33.4
Tuesday, January 30, 2018	1:30	(0:14:58.0)	39.5	57.0	48.3	43.0	32.5
Tuesday, January 30, 2018	1:45	(0:14:58.0)	39.4	55.5	50.3	42.0	32.9
Tuesday, January 30, 2018	2:00	(0:14:58.0)	38.6	55.9	49.3	41.5	31.1
Tuesday, January 30, 2018	2:15	(0:14:57.0)	36.1	52.6	46.7	38.3	30.9
Tuesday, January 30, 2018	2:30	(0:14:58.0)	37.5	53.5	47.2	40.5	31.8
Tuesday, January 30, 2018	2:45	(0:14:58.0)	38.5	52.2	47.6	42.1	32.1
Tuesday, January 30, 2018	3:00	(0:14:58.0)	38.2	54.8	46.2	41.1	33.7
Tuesday, January 30, 2018	3:15	(0:14:58.0)	42.1	56.7	50.3	45.0	36.2
Tuesday, January 30, 2018	3:30	(0:14:57.0)	39.3	58.6	48.0	40.2	35.0
Tuesday, January 30, 2018	3:45	(0:14:58.0)	39.2	53.7	47.9	41.8	34.5
Tuesday, January 30, 2018	4:00	(0:14:58.0)	39.6	53.4	48.8	41.8	34.8
Tuesday, January 30, 2018	4:15	(0:14:58.0)	40.3	54.0	49.6	43.5	33.8
Tuesday, January 30, 2018	4:30	(0:14:58.0)	40.8	54.5	49.3	44.3	34.9
Tuesday, January 30, 2018	4:45	(0:14:57.0)	42.2	56.0	50.9	46.1	34.2
Tuesday, January 30, 2018	5:00	(0:14:58.0)	43.8	58.5	53.7	47.1	36.4
Tuesday, January 30, 2018	5:15	(0:14:57.0)	44.4	57.4	50.6	47.3	40.3
Tuesday, January 30, 2018	5:30	(0:14:58.0)	46.1	60.4	54.0	48.7	41.7
Tuesday, January 30, 2018	5:45	(0:14:58.0)	51.5	70.8	60.1	53.6	45.6
Tuesday, January 30, 2018	6:00	(0:14:58.0)	48.1	58.7	53.5	50.4	44.5
Tuesday, January 30, 2018	6:15	(0:14:58.0)	49.0	61.0	54.3	51.2	45.0
Tuesday, January 30, 2018	6:30	(0:14:57.0)	50.0	61.3	54.6	52.1	47.2
Tuesday, January 30, 2018	6:45	(0:14:58.0)	51.4	69.2	59.3	53.2	47.8
Tuesday, January 30, 2018	7:00	(0:14:58.0)	53.8	72.3	59.9	56.1	50.2
Tuesday, January 30, 2018	7:15	(0:14:58.0)	51.7	64.1	58.2	53.7	48.9
Tuesday, January 30, 2018	7:30	(0:14:58.0)	52.4	67.5	61.1	53.7	49.1
Tuesday, January 30, 2018	7:45	(0:14:57.0)	51.6	66.4	57.2	53.5	48.7
Tuesday, January 30, 2018	8:00	(0:14:58.0)	51.6	70.6	56.8	53.2	48.5
Tuesday, January 30, 2018	8:15	(0:14:58.0)	51.5	66.8	57.4	53.3	48.8
Tuesday, January 30, 2018	8:30	(0:14:58.0)	52.8	71.0	60.3	54.4	49.1
Tuesday, January 30, 2018	8:45	(0:14:58.0)	51.6	66.1	60.5	53.0	48.5
Tuesday, January 30, 2018	9:00	(0:14:58.0)	51.9	69.8	60.8	53.4	48.1
Tuesday, January 30, 2018	9:15	(0:14:58.0)	52.7	71.5	64.5	52.7	48.3
Tuesday, January 30, 2018	9:30	(0:14:57.0)	56.0	74.1	70.6	54.7	48.5
Tuesday, January 30, 2018	9:45	(0:14:58.0)	51.5	62.9	56.9	53.3	48.6
Tuesday, January 30, 2018	10:00	(0:14:57.0)	53.1	64.4	60.8	56.3	48.4
Tuesday, January 30, 2018	10:15	(0:14:58.0)	52.2	72.4	61.0	53.6	48.3
Tuesday, January 30, 2018	10:30	(0:14:57.0)	51.4	67.0	58.3	53.5	48.0
Tuesday, January 30, 2018	10:45	(0:14:58.0)	51.3	67.3	58.2	53.2	48.0
Tuesday, January 30, 2018	11:00	(0:14:56.0)	53.0	75.1	63.7	53.7	46.8
Tuesday, January 30, 2018	11:15	(0:14:58.0)	50.7	61.6	57.7	53.1	46.8
Tuesday, January 30, 2018	11:30	(0:14:57.0)	49.6	64.0	55.1	51.5	46.6
Tuesday, January 30, 2018	11:45	(0:14:57.0)	54.2	73.3	67.4	54.5	47.0
Tuesday, January 30, 2018	12:00	(0:14:57.0)	50.7	64.7	58.4	53.5	46.4

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Tuesday, January 30, 2018	12:15	(0:14:58.0)	48.9	60.1	54.6	51.1	45.4
Tuesday, January 30, 2018	12:30	(0:14:57.0)	50.2	61.9	57.1	52.9	45.9
Tuesday, January 30, 2018	12:45	(0:14:58.0)	49.4	63.8	57.5	51.5	45.3
Tuesday, January 30, 2018	13:00	(0:14:57.0)	58.4	79.4	73.7	53.4	45.6
Tuesday, January 30, 2018	13:15	(0:14:58.0)	48.5	62.5	53.7	50.6	45.2
Tuesday, January 30, 2018	13:30	(0:14:57.0)	49.5	62.1	54.9	51.9	46.1
Tuesday, January 30, 2018	13:45	(0:14:58.0)	50.4	68.2	61.6	51.2	46.3
Tuesday, January 30, 2018	14:00	(0:14:58.0)	49.2	57.4	54.0	51.1	46.6
Tuesday, January 30, 2018	14:15	(0:14:57.0)	51.6	67.9	63.0	52.3	46.4
Tuesday, January 30, 2018	14:30	(0:14:58.0)	49.7	63.2	55.2	51.8	46.5
Tuesday, January 30, 2018	14:45	(0:14:57.0)	59.8	82.5	74.4	54.9	46.7
Tuesday, January 30, 2018	15:00	(0:14:58.0)	50.4	66.9	57.7	52.7	46.4
Tuesday, January 30, 2018	15:15	(0:14:57.0)	49.6	59.3	54.3	51.5	46.9
Tuesday, January 30, 2018	15:30	(0:14:57.0)	51.7	69.9	62.6	52.1	47.0
Tuesday, January 30, 2018	15:45	(0:14:57.0)	50.9	68.3	62.6	51.5	46.5
Tuesday, January 30, 2018	16:00	(0:14:57.0)	50.2	65.8	55.6	52.5	47.2
Tuesday, January 30, 2018	16:15	(0:14:57.0)	49.3	65.5	54.8	50.8	46.5
Tuesday, January 30, 2018	16:30	(0:14:58.0)	49.3	58.0	54.1	51.1	46.7
Tuesday, January 30, 2018	16:45	(0:14:57.0)	49.4	57.4	53.8	51.3	46.9
Tuesday, January 30, 2018	17:00	(0:14:57.0)	50.3	71.1	55.6	51.9	47.3
Tuesday, January 30, 2018	17:15	(0:14:56.0)	49.4	61.2	55.7	51.2	46.6
Tuesday, January 30, 2018	17:30	(0:14:57.0)	49.9	67.7	57.9	51.4	46.2
Tuesday, January 30, 2018	17:45	(0:14:57.0)	51.3	75.1	56.0	51.4	46.8
Tuesday, January 30, 2018	18:00	(0:14:57.0)	49.7	67.2	54.7	51.4	47.1
Tuesday, January 30, 2018	18:15	(0:14:57.0)	49.3	62.1	53.3	51.1	47.2
Tuesday, January 30, 2018	18:30	(0:14:57.0)	49.1	56.6	53.3	50.8	46.7
Tuesday, January 30, 2018	18:45	(0:14:57.0)	49.9	61.3	55.3	51.8	47.1
Tuesday, January 30, 2018	19:00	(0:14:57.0)	56.8	78.3	72.2	52.5	47.5
Tuesday, January 30, 2018	19:15	(0:14:57.0)	49.8	64.9	55.4	51.5	47.5
Tuesday, January 30, 2018	19:30	(0:14:57.0)	49.9	66.2	55.0	51.5	47.1
Tuesday, January 30, 2018	19:45	(0:14:57.0)	50.0	64.6	56.9	51.8	46.7
Tuesday, January 30, 2018	20:00	(0:14:57.0)	49.2	66.3	53.9	51.1	46.7
Tuesday, January 30, 2018	20:15	(0:14:57.0)	48.9	57.8	53.5	50.7	46.3
Tuesday, January 30, 2018	20:30	(0:14:57.0)	48.5	56.1	52.8	50.4	45.5
Tuesday, January 30, 2018	20:45	(0:14:57.0)	48.3	61.0	54.1	50.1	45.6
Tuesday, January 30, 2018	21:00	(0:14:57.0)	48.3	61.1	54.1	50.6	44.7
Tuesday, January 30, 2018	21:15	(0:14:57.0)	48.3	59.1	52.3	50.2	45.7
Tuesday, January 30, 2018	21:30	(0:14:57.0)	49.1	61.6	54.8	51.0	46.0
Tuesday, January 30, 2018	21:45	(0:14:57.0)	48.3	59.8	53.2	50.2	45.2
Tuesday, January 30, 2018	22:00	(0:14:57.0)	49.0	55.7	53.2	50.9	46.3
Tuesday, January 30, 2018	22:15	(0:14:57.0)	48.5	58.8	55.1	50.5	45.4
Tuesday, January 30, 2018	22:30	(0:14:58.0)	46.8	56.2	52.3	48.8	44.0
Tuesday, January 30, 2018	22:45	(0:14:57.0)	47.0	56.2	52.2	49.3	43.9
Tuesday, January 30, 2018	23:00	(0:14:58.0)	46.8	59.6	53.7	49.1	42.6
Tuesday, January 30, 2018	23:15	(0:14:57.0)	45.5	57.7	52.5	47.7	42.1
Tuesday, January 30, 2018	23:30	(0:14:57.0)	45.2	58.7	52.0	47.9	40.5
Tuesday, January 30, 2018	23:45	(0:14:57.0)	44.4	59.5	51.3	47.1	40.0
Wednesday, January 31, 2018	0:00	(0:14:55.0)	44.8	57.6	51.0	47.4	41.1
Wednesday, January 31, 2018	0:15	(0:14:57.0)	44.2	59.0	51.5	47.0	39.9
Wednesday, January 31, 2018	0:30	(0:14:57.0)	45.1	64.1	53.1	47.5	40.3
Wednesday, January 31, 2018	0:45	(0:14:57.0)	42.8	55.0	49.5	45.5	39.2
Wednesday, January 31, 2018	1:00	(0:14:57.0)	45.7	71.5	53.0	46.6	39.1
Wednesday, January 31, 2018	1:15	(0:14:57.0)	42.1	56.6	50.5	44.8	37.5
Wednesday, January 31, 2018	1:30	(0:14:57.0)	42.1	55.7	49.7	45.4	37.0
Wednesday, January 31, 2018	1:45	(0:14:57.0)	42.5	54.0	49.3	45.6	37.6
Wednesday, January 31, 2018	2:00	(0:14:57.0)	44.0	61.2	53.7	46.4	38.2
Wednesday, January 31, 2018	2:15	(0:14:58.0)	45.2	62.5	54.7	48.7	36.6
Wednesday, January 31, 2018	2:30	(0:14:57.0)	48.4	67.0	58.7	51.3	39.0
Wednesday, January 31, 2018	2:45	(0:14:57.0)	46.1	66.2	55.7	49.0	37.3
Wednesday, January 31, 2018	3:00	(0:14:57.0)	42.9	58.7	53.3	46.2	35.6
Wednesday, January 31, 2018	3:15	(0:14:57.0)	40.7	59.8	49.8	43.4	35.2
Wednesday, January 31, 2018	3:30	(0:14:57.0)	42.5	58.9	50.7	45.7	36.3
Wednesday, January 31, 2018	3:45	(0:14:56.0)	39.5	54.2	48.1	41.9	35.3
Wednesday, January 31, 2018	4:00	(0:14:57.0)	42.2	58.7	51.9	45.1	36.2
Wednesday, January 31, 2018	4:15	(0:14:57.0)	40.9	56.3	50.4	43.4	36.6
Wednesday, January 31, 2018	4:30	(0:14:57.0)	43.2	60.7	50.5	46.2	37.6
Wednesday, January 31, 2018	4:45	(0:14:57.0)	44.1	53.7	50.2	46.9	39.9
Wednesday, January 31, 2018	5:00	(0:14:57.0)	46.1	63.0	53.2	48.7	41.5
Wednesday, January 31, 2018	5:15	(0:14:57.0)	45.8	56.5	53.1	48.5	42.2
Wednesday, January 31, 2018	5:30	(0:14:57.0)	46.3	58.6	52.7	49.0	41.8
Wednesday, January 31, 2018	5:45	(0:14:57.0)	48.5	59.8	54.8	51.1	44.5
Wednesday, January 31, 2018	6:00	(0:14:57.0)	48.7	66.0	54.7	50.7	45.3
Wednesday, January 31, 2018	6:15	(0:14:57.0)	50.0	59.5	55.6	52.4	46.4
Wednesday, January 31, 2018	6:30	(0:14:57.0)	50.5	57.6	54.7	52.4	48.0
Wednesday, January 31, 2018	6:45	(0:14:57.0)	52.7	62.8	57.3	54.4	50.1
Wednesday, January 31, 2018	7:00	(0:14:57.0)	53.0	62.0	57.2	54.8	50.7
Wednesday, January 31, 2018	7:15	(0:14:57.0)	52.4	73.4	57.5	53.9	49.6
Wednesday, January 31, 2018	7:30	(0:14:57.0)	51.4	65.1	56.7	53.4	48.8
Wednesday, January 31, 2018	7:45	(0:14:56.0)	52.0	63.7	58.7	54.1	49.1
Wednesday, January 31, 2018	8:00	(0:14:57.0)	52.4	68.6	58.1	54.5	49.5
Wednesday, January 31, 2018	8:15	(0:14:57.0)	52.5	67.6	59.3	54.2	49.3
Wednesday, January 31, 2018	8:30	(0:14:57.0)	52.2	65.2	58.9	54.5	48.9
Wednesday, January 31, 2018	8:45	(0:14:57.0)	51.4	63.6	57.0	53.3	48.6
Wednesday, January 31, 2018	9:00	(0:14:57.0)	52.4	64.5	58.7	54.6	49.3
Wednesday, January 31, 2018	9:15	(0:14:57.0)	52.9	71.3	61.9	54.6	48.9
Wednesday, January 31, 2018	9:30	(0:14:57.0)	52.0	71.4	58.0	54.2	48.1
Wednesday, January 31, 2018	9:45	(0:14:57.0)	50.6	61.8	56.4	52.4	47.8
Wednesday, January 31, 2018	10:00	(0:14:56.0)	53.2	73.5	65.3	53.2	47.7
Wednesday, January 31, 2018	10:15	(0:14:57.0)	58.3	77.2	68.1	59.6	52.8
Wednesday, January 31, 2018	10:30	(0:14:56.0)	55.3	74.4	60.8	56.5	51.6
Wednesday, January 31, 2018	10:45	(0:14:56.0)	52.3	66.9	60.0	54.3	48.6
Wednesday, January 31, 2018	11:00	(0:14:57.0)	54.5	72.6	66.1	55.9	49.2
Wednesday, January 31, 2018	11:15	(0:14:56.0)	50.9	71.2	55.7	52.8	48.1

Caversham, Reading

Equipment - Norsonic 140 + Wet weather kit
Calibration - Before and after with no decernable drift
Location - Front facade of development

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Thursday, January 25, 2018	11:45	(0:14:56.0)	69.5	83.8	78.0	72.2	62.4
Thursday, January 25, 2018	12:00	(0:14:56.0)	69.8	83.1	78.3	73.1	58.8
Thursday, January 25, 2018	12:15	(0:14:56.0)	69.1	80.6	75.0	72.0	60.7
Thursday, January 25, 2018	12:30	(0:14:55.0)	69.9	85.8	78.2	72.9	62.4
Thursday, January 25, 2018	12:45	(0:14:56.0)	70.1	89.6	78.3	72.8	62.9
Thursday, January 25, 2018	13:00	(0:14:56.0)	69.9	87.6	77.5	72.4	61.0
Thursday, January 25, 2018	13:15	(0:14:56.0)	70.6	85.7	80.9	73.1	61.1
Thursday, January 25, 2018	13:30	(0:14:56.0)	69.7	82.5	76.7	72.5	61.0
Thursday, January 25, 2018	13:45	(0:14:56.0)	69.2	85.0	75.9	72.7	59.4
Thursday, January 25, 2018	14:00	(0:14:56.0)	69.6	84.6	76.9	72.5	59.7
Thursday, January 25, 2018	14:15	(0:14:56.0)	70.2	83.8	77.8	73.2	61.0
Thursday, January 25, 2018	14:30	(0:14:56.0)	69.9	83.0	77.3	73.1	62.2
Thursday, January 25, 2018	14:45	(0:14:56.0)	70.0	83.2	76.5	73.2	62.1
Thursday, January 25, 2018	15:00	(0:14:55.0)	70.2	84.0	78.7	73.0	61.1
Thursday, January 25, 2018	15:15	(0:14:56.0)	67.6	77.6	73.8	70.9	60.8
Thursday, January 25, 2018	15:30	(0:14:56.0)	68.9	80.7	75.4	72.0	62.0
Thursday, January 25, 2018	15:45	(0:14:55.0)	69.0	80.3	76.2	72.2	60.2
Thursday, January 25, 2018	16:00	(0:14:56.0)	69.9	81.5	77.0	72.9	61.0
Thursday, January 25, 2018	16:15	(0:14:56.0)	69.5	82.9	76.2	72.4	62.1
Thursday, January 25, 2018	16:30	(0:14:56.0)	73.1	103.6	81.0	72.8	62.7
Thursday, January 25, 2018	16:45	(0:14:56.0)	69.2	87.2	77.2	71.4	62.4
Thursday, January 25, 2018	17:00	(0:14:56.0)	69.0	76.9	74.4	72.1	62.7
Thursday, January 25, 2018	17:15	(0:14:55.0)	69.7	78.6	76.0	72.9	61.4
Thursday, January 25, 2018	17:30	(0:14:55.0)	70.5	83.1	77.9	73.4	61.5
Thursday, January 25, 2018	17:45	(0:14:56.0)	70.4	89.7	76.7	72.9	61.6
Thursday, January 25, 2018	18:00	(0:14:56.0)	68.6	83.2	75.2	71.5	62.8
Thursday, January 25, 2018	18:15	(0:14:56.0)	69.0	78.8	75.8	72.5	62.5
Thursday, January 25, 2018	18:30	(0:14:55.0)	69.0	81.5	75.2	72.6	60.2
Thursday, January 25, 2018	18:45	(0:14:55.0)	69.7	86.6	75.9	73.2	62.1
Thursday, January 25, 2018	19:00	(0:14:55.0)	70.4	90.3	76.7	73.6	59.6
Thursday, January 25, 2018	19:15	(0:14:55.0)	81.4	109.8	88.7	73.9	62.0
Thursday, January 25, 2018	19:30	(0:14:56.0)	69.9	85.8	76.9	72.9	58.5
Thursday, January 25, 2018	19:45	(0:14:55.0)	69.4	78.5	75.7	73.2	56.7
Thursday, January 25, 2018	20:00	(0:14:55.0)	71.8	97.9	78.0	73.8	59.9
Thursday, January 25, 2018	20:15	(0:14:55.0)	69.8	78.9	76.3	73.2	58.4
Thursday, January 25, 2018	20:30	(0:14:55.0)	69.8	88.6	76.9	73.5	54.9
Thursday, January 25, 2018	20:45	(0:14:55.0)	69.7	89.0	77.3	73.4	56.1
Thursday, January 25, 2018	21:00	(0:14:55.0)	70.0	91.2	78.2	71.9	54.2
Thursday, January 25, 2018	21:15	(0:14:55.0)	68.6	85.7	75.6	72.6	55.2
Thursday, January 25, 2018	21:30	(0:14:56.0)	68.4	80.0	76.0	72.7	54.9
Thursday, January 25, 2018	21:45	(0:14:56.0)	68.6	79.4	76.2	72.9	53.9
Thursday, January 25, 2018	22:00	(0:14:55.0)	68.3	78.9	76.3	72.8	54.1
Thursday, January 25, 2018	22:15	(0:14:55.0)	66.6	82.7	76.0	71.6	50.2
Thursday, January 25, 2018	22:30	(0:14:55.0)	67.0	79.3	75.8	72.1	47.2
Thursday, January 25, 2018	22:45	(0:14:55.0)	68.1	87.7	77.5	72.4	49.3
Thursday, January 25, 2018	23:00	(0:14:55.0)	68.5	88.1	78.7	72.3	48.3
Thursday, January 25, 2018	23:15	(0:14:55.0)	67.0	85.1	76.0	71.8	45.8
Thursday, January 25, 2018	23:30	(0:14:55.0)	66.1	80.5	75.9	71.2	48.0
Thursday, January 25, 2018	23:45	(0:14:55.0)	65.6	80.2	75.8	70.9	42.1
Friday, January 26, 2018	0:00	(0:14:55.0)	64.1	79.9	75.7	69.0	45.0
Friday, January 26, 2018	0:15	(0:14:56.0)	63.7	81.5	75.7	68.0	41.7
Friday, January 26, 2018	0:30	(0:14:56.0)	62.7	84.0	74.8	63.0	42.2
Friday, January 26, 2018	0:45	(0:14:56.0)	68.8	95.5	76.5	60.6	40.4
Friday, January 26, 2018	1:00	(0:14:56.0)	57.3	78.0	70.8	55.8	39.0
Friday, January 26, 2018	1:15	(0:14:56.0)	62.4	80.2	75.4	65.0	39.1
Friday, January 26, 2018	1:30	(0:14:56.0)	60.1	78.6	74.1	60.1	39.2
Friday, January 26, 2018	1:45	(0:14:56.0)	58.4	79.5	72.6	54.2	40.3
Friday, January 26, 2018	2:00	(0:14:56.0)	58.8	78.4	73.8	54.2	37.9
Friday, January 26, 2018	2:15	(0:14:56.0)	56.6	79.7	71.1	49.1	38.2
Friday, January 26, 2018	2:30	(0:14:55.0)	59.8	79.2	73.1	58.3	38.6
Friday, January 26, 2018	2:45	(0:14:55.0)	58.6	77.9	73.3	54.4	39.1
Friday, January 26, 2018	3:00	(0:14:56.0)	58.8	79.0	72.6	54.8	43.2
Friday, January 26, 2018	3:15	(0:14:56.0)	54.1	77.5	66.4	46.6	40.5
Friday, January 26, 2018	3:30	(0:14:55.0)	58.9	79.9	72.8	56.5	39.3
Friday, January 26, 2018	3:45	(0:14:56.0)	60.4	80.8	73.9	59.5	40.3
Friday, January 26, 2018	4:00	(0:14:55.0)	57.9	77.5	73.0	52.3	38.3
Friday, January 26, 2018	4:15	(0:14:56.0)	61.5	81.6	75.3	59.0	39.7
Friday, January 26, 2018	4:30	(0:14:56.0)	62.0	80.5	75.4	62.6	40.2
Friday, January 26, 2018	4:45	(0:14:56.0)	65.0	83.0	77.0	68.5	41.4
Friday, January 26, 2018	5:00	(0:14:56.0)	65.6	88.3	76.2	69.1	42.1
Friday, January 26, 2018	5:15	(0:14:55.0)	63.1	83.3	75.3	65.3	40.0
Friday, January 26, 2018	5:30	(0:14:55.0)	65.5	80.9	76.7	70.6	41.2
Friday, January 26, 2018	5:45	(0:14:56.0)	68.1	82.3	77.8	73.2	48.8
Friday, January 26, 2018	6:00	(0:14:55.0)	68.8	82.8	77.9	74.2	46.0
Friday, January 26, 2018	6:15	(0:14:56.0)	68.9	82.0	77.3	73.9	50.6
Friday, January 26, 2018	6:30	(0:14:55.0)	71.4	88.8	80.1	75.3	54.2
Friday, January 26, 2018	6:45	(0:14:56.0)	72.3	82.8	79.1	75.9	57.8
Friday, January 26, 2018	7:00	(0:14:55.0)	72.2	83.4	79.2	75.7	57.9
Friday, January 26, 2018	7:15	(0:14:55.0)	71.6	85.7	78.1	74.4	62.1
Friday, January 26, 2018	7:30	(0:14:56.0)	71.1	87.5	78.0	74.1	62.9
Friday, January 26, 2018	7:45	(0:14:55.0)	71.7	85.3	79.2	74.5	61.6
Friday, January 26, 2018	8:00	(0:14:56.0)	71.2	84.6	79.1	74.2	63.1
Friday, January 26, 2018	8:15	(0:14:56.0)	72.0	95.4	80.5	74.6	61.6
Friday, January 26, 2018	8:30	(0:14:55.0)	77.2	105.2	87.9	73.3	63.5
Friday, January 26, 2018	8:45	(0:14:56.0)	70.8	87.2	80.1	73.8	62.6
Friday, January 26, 2018	9:00	(0:14:55.0)	70.6	84.0	76.9	73.5	61.4
Friday, January 26, 2018	9:15	(0:14:55.0)	71.0	83.9	78.2	74.3	62.1
Friday, January 26, 2018	9:30	(0:14:55.0)	70.7	81.3	77.3	74.2	61.8

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Friday, January 26, 2018	9:45	(0:14:55.0)	71.1	86.1	79.2	74.2	62.7
Friday, January 26, 2018	10:00	(0:14:56.0)	70.6	82.9	77.9	73.7	62.6
Friday, January 26, 2018	10:15	(0:14:55.0)	70.7	83.0	78.2	73.6	62.6
Friday, January 26, 2018	10:30	(0:14:55.0)	70.9	93.1	77.3	73.4	62.7
Friday, January 26, 2018	10:45	(0:14:56.0)	69.9	82.9	77.9	72.9	63.1
Friday, January 26, 2018	11:00	(0:14:56.0)	84.4	114.6	91.9	73.6	63.2
Friday, January 26, 2018	11:15	(0:14:56.0)	77.5	102.6	85.9	74.4	62.6
Friday, January 26, 2018	11:30	(0:14:55.0)	69.8	81.8	77.4	72.8	63.0
Friday, January 26, 2018	11:45	(0:14:55.0)	70.3	83.6	78.1	73.5	63.8
Friday, January 26, 2018	12:00	(0:14:55.0)	69.6	84.3	77.7	72.2	63.4
Friday, January 26, 2018	12:15	(0:14:55.0)	83.4	110.3	90.8	73.8	62.7
Friday, January 26, 2018	12:30	(0:14:55.0)	75.3	100.7	85.6	73.9	63.2
Friday, January 26, 2018	12:45	(0:14:55.0)	69.8	86.9	77.1	72.8	63.1
Friday, January 26, 2018	13:00	(0:14:55.0)	69.9	83.3	77.8	72.6	62.6
Friday, January 26, 2018	13:15	(0:14:56.0)	70.2	84.3	78.3	73.0	61.9
Friday, January 26, 2018	13:30	(0:14:56.0)	69.6	81.8	76.6	72.9	61.4
Friday, January 26, 2018	13:45	(0:14:55.0)	69.2	79.9	76.4	72.6	62.4
Friday, January 26, 2018	14:00	(0:14:55.0)	68.0	85.0	76.8	70.4	62.1
Friday, January 26, 2018	14:15	(0:14:55.0)	69.4	86.9	77.9	72.3	62.6
Friday, January 26, 2018	14:30	(0:14:56.0)	79.8	106.8	92.4	73.1	62.7
Friday, January 26, 2018	14:45	(0:14:55.0)	70.8	90.7	81.5	72.3	63.5
Friday, January 26, 2018	15:00	(0:14:55.0)	69.5	81.7	76.3	72.6	63.1
Friday, January 26, 2018	15:15	(0:14:55.0)	68.9	86.7	75.9	71.5	62.3
Friday, January 26, 2018	15:30	(0:14:55.0)	69.8	94.2	76.8	72.4	61.4
Friday, January 26, 2018	15:45	(0:14:55.0)	68.8	92.0	76.1	71.4	62.9
Friday, January 26, 2018	16:00	(0:14:55.0)	68.3	86.2	76.7	70.7	63.2
Friday, January 26, 2018	16:15	(0:14:55.0)	67.5	80.7	74.1	70.5	62.0
Friday, January 26, 2018	16:30	(0:14:56.0)	68.3	83.3	77.5	70.8	62.6
Friday, January 26, 2018	16:45	(0:14:56.0)	68.6	84.1	76.6	71.6	61.5
Friday, January 26, 2018	17:00	(0:14:55.0)	70.2	84.3	79.7	72.8	63.6
Friday, January 26, 2018	17:15	(0:14:55.0)	68.8	78.4	75.2	72.4	62.7
Friday, January 26, 2018	17:30	(0:14:55.0)	69.5	82.8	75.6	73.0	61.7
Friday, January 26, 2018	17:45	(0:14:55.0)	71.0	88.4	79.3	73.8	61.3
Friday, January 26, 2018	18:00	(0:14:55.0)	69.5	76.6	75.3	73.0	60.2
Friday, January 26, 2018	18:15	(0:14:55.0)	70.9	95.1	76.8	73.3	61.2
Friday, January 26, 2018	18:30	(0:14:55.0)	71.6	96.6	75.9	73.3	59.8
Friday, January 26, 2018	18:45	(0:14:55.0)	70.5	85.1	76.5	73.7	59.8
Friday, January 26, 2018	19:00	(0:14:55.0)	69.3	79.6	75.6	72.7	59.3
Friday, January 26, 2018	19:15	(0:14:55.0)	69.8	78.3	76.0	73.2	61.7
Friday, January 26, 2018	19:30	(0:14:55.0)	74.5	102.7	81.5	73.6	60.9
Friday, January 26, 2018	19:45	(0:14:55.0)	69.8	91.7	75.4	72.6	60.6
Friday, January 26, 2018	20:00	(0:14:55.0)	69.8	81.3	76.2	73.3	57.9
Friday, January 26, 2018	20:15	(0:14:55.0)	69.3	83.4	76.0	73.4	55.6
Friday, January 26, 2018	20:30	(0:14:55.0)	69.6	90.5	77.8	72.7	56.9
Friday, January 26, 2018	20:45	(0:14:55.0)	68.0	81.5	75.3	72.5	54.3
Friday, January 26, 2018	21:00	(0:14:55.0)	67.3	76.7	75.0	71.9	54.3
Friday, January 26, 2018	21:15	(0:14:55.0)	67.6	81.0	75.5	71.8	55.5
Friday, January 26, 2018	21:30	(0:14:55.0)	75.3	102.2	77.7	71.9	55.3
Friday, January 26, 2018	21:45	(0:14:55.0)	67.7	82.7	76.1	71.8	54.5
Friday, January 26, 2018	22:00	(0:14:55.0)	73.9	102.7	79.3	72.2	57.2
Friday, January 26, 2018	22:15	(0:14:55.0)	69.5	88.6	77.9	73.3	55.1
Friday, January 26, 2018	22:30	(0:14:55.0)	67.4	84.7	76.2	71.5	54.3
Friday, January 26, 2018	22:45	(0:14:55.0)	67.9	85.1	76.3	71.9	55.8
Friday, January 26, 2018	23:00	(0:14:55.0)	68.1	82.1	75.5	72.1	57.2
Friday, January 26, 2018	23:15	(0:14:55.0)	67.5	79.1	76.1	72.3	55.2
Friday, January 26, 2018	23:30	(0:14:55.0)	67.0	80.7	75.3	72.0	50.1
Friday, January 26, 2018	23:45	(0:14:55.0)	65.9	79.3	75.1	71.0	48.2
Saturday, January 27, 2018	0:00	(0:14:55.0)	66.6	83.4	76.3	71.3	50.2
Saturday, January 27, 2018	0:15	(0:14:56.0)	68.8	92.4	79.0	71.0	53.5
Saturday, January 27, 2018	0:30	(0:14:55.0)	65.8	84.1	74.7	69.9	53.7
Saturday, January 27, 2018	0:45	(0:14:56.0)	65.0	80.4	75.2	70.3	43.6
Saturday, January 27, 2018	1:00	(0:14:55.0)	63.8	78.4	75.2	68.6	41.4
Saturday, January 27, 2018	1:15	(0:14:55.0)	64.2	78.3	75.4	69.5	40.4
Saturday, January 27, 2018	1:30	(0:14:56.0)	64.0	81.4	75.9	68.1	42.0
Saturday, January 27, 2018	1:45	(0:14:56.0)	63.3	84.3	75.5	64.1	40.1
Saturday, January 27, 2018	2:00	(0:14:56.0)	62.5	78.3	75.2	65.7	39.6
Saturday, January 27, 2018	2:15	(0:14:56.0)	59.0	76.6	71.9	60.7	38.4
Saturday, January 27, 2018	2:30	(0:14:56.0)	62.1	79.8	74.6	65.3	39.8
Saturday, January 27, 2018	2:45	(0:14:56.0)	62.4	78.7	74.8	65.5	41.0
Saturday, January 27, 2018	3:00	(0:14:55.0)	63.3	78.7	75.7	67.3	40.5
Saturday, January 27, 2018	3:15	(0:14:56.0)	61.3	77.5	74.4	63.6	39.9
Saturday, January 27, 2018	3:30	(0:14:56.0)	62.2	81.3	75.3	63.7	39.9
Saturday, January 27, 2018	3:45	(0:14:56.0)	63.1	80.6	75.1	66.4	41.9
Saturday, January 27, 2018	4:00	(0:14:56.0)	59.4	77.2	73.3	58.4	40.2
Saturday, January 27, 2018	4:15	(0:14:56.0)	62.6	79.5	75.5	65.1	40.6
Saturday, January 27, 2018	4:30	(0:14:56.0)	61.4	80.7	73.9	64.3	39.8
Saturday, January 27, 2018	4:45	(0:14:56.0)	62.3	83.9	74.9	63.3	40.8
Saturday, January 27, 2018	5:00	(0:14:56.0)	64.5	82.1	76.4	68.1	42.0
Saturday, January 27, 2018	5:15	(0:14:55.0)	64.1	82.2	76.7	66.9	42.8
Saturday, January 27, 2018	5:30	(0:14:56.0)	61.6	78.2	74.1	64.1	42.3
Saturday, January 27, 2018	5:45	(0:14:56.0)	64.4	81.6	76.4	68.0	45.2
Saturday, January 27, 2018	6:00	(0:14:56.0)	65.5	81.3	77.3	69.7	45.0
Saturday, January 27, 2018	6:15	(0:14:56.0)	65.2	80.6	76.6	70.2	44.9
Saturday, January 27, 2018	6:30	(0:14:56.0)	65.3	78.8	76.4	70.2	45.3
Saturday, January 27, 2018	6:45	(0:14:56.0)	67.5	82.7	77.2	72.6	46.5
Saturday, January 27, 2018	7:00	(0:14:56.0)	67.2	80.7	76.9	72.4	48.2
Saturday, January 27, 2018	7:15	(0:14:56.0)	69.2	90.1	78.1	73.5	51.7
Saturday, January 27, 2018	7:30	(0:14:55.0)	69.1	80.0	77.9	73.6	53.3
Saturday, January 27, 2018	7:45	(0:14:55.0)	70.3	83.1	78.6	74.6	54.4
Saturday, January 27, 2018	8:00	(0:14:55.0)	70.0	93.3	77.5	73.6	54.3
Saturday, January 27, 2018	8:15	(0:14:55.0)	70.7	82.7	78.2	74.5	56.9
Saturday, January 27, 2018	8:30	(0:14:55.0)	71.5	89.4	77.6	74.9	58.9
Saturday, January 27, 2018	8:45	(0:14:56.0)	71.2	81.8	78.3	74.4	60.3
Saturday, January 27, 2018	9:00	(0:14:56.0)	70.7	79.1	76.7	74.2	59.0
Saturday, January 27, 2018	9:15	(0:14:55.0)	70.4	85.7	77.2	73.6	61.8
Saturday, January 27, 2018	9:30	(0:14:56.0)	68.2	80.3	75.7	71.7	61.6

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Saturday, January 27, 2018	9:45	(0:14:56.0)	83.9	114.2	88.8	71.8	62.5
Saturday, January 27, 2018	10:00	(0:14:55.0)	68.3	90.3	75.0	71.2	61.2
Saturday, January 27, 2018	10:15	(0:14:55.0)	68.8	78.4	75.0	71.9	62.3
Saturday, January 27, 2018	10:30	(0:14:55.0)	67.1	78.8	72.8	69.9	63.0
Saturday, January 27, 2018	10:45	(0:14:56.0)	72.6	99.5	78.9	70.1	62.5
Saturday, January 27, 2018	11:00	(0:14:56.0)	67.8	81.4	75.4	71.2	60.9
Saturday, January 27, 2018	11:15	(0:14:56.0)	65.8	78.1	74.1	67.9	61.8
Saturday, January 27, 2018	11:30	(0:14:55.0)	67.5	75.5	73.3	70.4	62.1
Saturday, January 27, 2018	11:45	(0:14:55.0)	67.8	82.5	74.4	70.8	62.4
Saturday, January 27, 2018	12:00	(0:14:56.0)	68.7	79.5	75.1	72.0	62.8
Saturday, January 27, 2018	12:15	(0:14:55.0)	68.1	78.0	74.1	71.2	61.7
Saturday, January 27, 2018	12:30	(0:14:55.0)	68.7	78.4	74.8	71.7	62.8
Saturday, January 27, 2018	12:45	(0:14:55.0)	68.5	77.3	74.1	71.7	63.2
Saturday, January 27, 2018	13:00	(0:14:55.0)	70.2	83.1	77.0	73.6	62.9
Saturday, January 27, 2018	13:15	(0:14:56.0)	85.3	112.9	86.5	72.1	62.8
Saturday, January 27, 2018	13:30	(0:14:55.0)	69.5	88.4	76.0	72.2	62.2
Saturday, January 27, 2018	13:45	(0:14:55.0)	69.4	79.5	75.5	73.2	62.8
Saturday, January 27, 2018	14:00	(0:14:56.0)	70.6	79.2	76.8	73.7	64.0
Saturday, January 27, 2018	14:15	(0:14:55.0)	71.9	89.6	79.3	74.6	61.9
Saturday, January 27, 2018	14:30	(0:14:55.0)	70.6	84.1	77.5	73.8	63.5
Saturday, January 27, 2018	14:45	(0:14:55.0)	83.7	111.3	83.3	73.4	64.1
Saturday, January 27, 2018	15:00	(0:14:56.0)	70.4	81.1	76.6	73.4	63.4
Saturday, January 27, 2018	15:15	(0:14:55.0)	68.5	78.7	74.2	71.6	62.7
Saturday, January 27, 2018	15:30	(0:14:55.0)	69.8	80.1	76.1	73.3	62.1
Saturday, January 27, 2018	15:45	(0:14:55.0)	70.5	82.4	77.0	73.4	61.5
Saturday, January 27, 2018	16:00	(0:14:55.0)	69.9	84.7	76.7	73.1	62.0
Saturday, January 27, 2018	16:15	(0:14:55.0)	70.0	78.4	75.4	73.2	63.1
Saturday, January 27, 2018	16:30	(0:14:55.0)	69.6	81.8	77.3	72.4	62.2
Saturday, January 27, 2018	16:45	(0:14:55.0)	69.5	82.0	75.6	72.5	61.6
Saturday, January 27, 2018	17:00	(0:14:55.0)	70.1	80.4	75.8	73.2	62.6
Saturday, January 27, 2018	17:15	(0:14:55.0)	71.1	97.3	76.4	73.2	62.4
Saturday, January 27, 2018	17:30	(0:14:55.0)	69.8	78.8	76.1	73.2	62.0
Saturday, January 27, 2018	17:45	(0:14:55.0)	70.8	79.0	76.3	74.2	60.3
Saturday, January 27, 2018	18:00	(0:14:55.0)	70.7	78.6	76.5	73.9	62.3
Saturday, January 27, 2018	18:15	(0:14:56.0)	70.6	78.2	76.2	74.3	59.4
Saturday, January 27, 2018	18:30	(0:14:55.0)	70.6	85.8	77.1	73.9	60.1
Saturday, January 27, 2018	18:45	(0:14:55.0)	76.9	103.1	86.3	74.6	60.0
Saturday, January 27, 2018	19:00	(0:14:55.0)	70.2	84.1	77.2	73.8	59.5
Saturday, January 27, 2018	19:15	(0:14:55.0)	70.2	83.1	76.5	74.0	57.7
Saturday, January 27, 2018	19:30	(0:14:55.0)	70.6	81.9	77.0	74.3	59.6
Saturday, January 27, 2018	19:45	(0:14:55.0)	70.4	84.9	79.4	74.0	57.4
Saturday, January 27, 2018	20:00	(0:14:55.0)	85.4	114.5	91.0	74.2	57.7
Saturday, January 27, 2018	20:15	(0:14:55.0)	69.5	81.6	78.0	73.6	55.4
Saturday, January 27, 2018	20:30	(0:14:55.0)	68.7	78.9	77.0	73.2	55.0
Saturday, January 27, 2018	20:45	(0:14:55.0)	68.6	80.5	76.9	73.0	54.9
Saturday, January 27, 2018	21:00	(0:14:55.0)	67.7	82.9	75.5	72.4	54.0
Saturday, January 27, 2018	21:15	(0:14:55.0)	68.4	83.9	76.7	72.6	55.9
Saturday, January 27, 2018	21:30	(0:14:55.0)	68.0	80.2	75.6	72.7	53.4
Saturday, January 27, 2018	21:45	(0:14:55.0)	80.3	108.3	88.5	72.9	53.8
Saturday, January 27, 2018	22:00	(0:14:55.0)	68.8	87.0	76.6	73.2	52.5
Saturday, January 27, 2018	22:15	(0:14:55.0)	68.5	84.1	76.4	73.3	52.8
Saturday, January 27, 2018	22:30	(0:14:55.0)	69.2	90.4	77.1	72.8	53.7
Saturday, January 27, 2018	22:45	(0:14:55.0)	68.7	90.1	76.3	72.5	53.4
Saturday, January 27, 2018	23:00	(0:14:55.0)	68.2	82.8	76.8	72.6	54.0
Saturday, January 27, 2018	23:15	(0:14:55.0)	67.6	81.3	76.1	72.1	53.0
Saturday, January 27, 2018	23:30	(0:14:55.0)	67.1	91.9	75.7	71.6	50.1
Saturday, January 27, 2018	23:45	(0:14:55.0)	66.9	78.8	75.1	72.1	50.4
Sunday, January 28, 2018	0:00	(0:14:55.0)	66.9	80.4	76.6	71.9	47.0
Sunday, January 28, 2018	0:15	(0:14:56.0)	70.3	95.2	77.7	70.5	55.3
Sunday, January 28, 2018	0:30	(0:14:56.0)	65.5	79.9	75.5	70.9	45.8
Sunday, January 28, 2018	0:45	(0:14:56.0)	65.6	79.1	75.8	71.1	44.9
Sunday, January 28, 2018	1:00	(0:14:56.0)	64.3	79.7	75.4	70.0	40.7
Sunday, January 28, 2018	1:15	(0:14:55.0)	64.5	84.5	75.5	69.5	40.2
Sunday, January 28, 2018	1:30	(0:14:56.0)	63.3	82.3	75.1	67.2	38.8
Sunday, January 28, 2018	1:45	(0:14:56.0)	62.7	79.3	75.3	66.2	40.0
Sunday, January 28, 2018	2:00	(0:14:55.0)	64.1	80.9	75.8	68.4	39.6
Sunday, January 28, 2018	2:15	(0:14:56.0)	62.7	78.0	75.3	66.0	38.5
Sunday, January 28, 2018	2:30	(0:14:56.0)	62.4	78.4	74.4	66.4	38.9
Sunday, January 28, 2018	2:45	(0:14:56.0)	62.4	81.1	74.6	65.6	39.2
Sunday, January 28, 2018	3:00	(0:14:55.0)	61.6	77.8	74.3	64.5	38.4
Sunday, January 28, 2018	3:15	(0:14:56.0)	62.1	83.1	74.9	63.7	38.7
Sunday, January 28, 2018	3:30	(0:14:56.0)	64.4	90.9	74.9	60.4	38.5
Sunday, January 28, 2018	3:45	(0:14:56.0)	62.0	78.5	75.5	63.2	38.6
Sunday, January 28, 2018	4:00	(0:14:56.0)	59.9	78.1	74.2	57.9	37.7
Sunday, January 28, 2018	4:15	(0:14:55.0)	58.2	76.2	72.5	56.1	38.4
Sunday, January 28, 2018	4:30	(0:14:56.0)	60.6	77.7	74.6	60.5	38.2
Sunday, January 28, 2018	4:45	(0:14:56.0)	59.5	80.9	74.2	54.0	37.9
Sunday, January 28, 2018	5:00	(0:14:55.0)	60.6	80.6	75.0	57.3	37.9
Sunday, January 28, 2018	5:15	(0:14:55.0)	59.7	78.8	74.3	57.2	38.2
Sunday, January 28, 2018	5:30	(0:14:56.0)	59.9	80.5	74.2	56.7	38.1
Sunday, January 28, 2018	5:45	(0:14:55.0)	63.0	82.0	75.5	66.1	38.9
Sunday, January 28, 2018	6:00	(0:14:55.0)	61.3	75.7	73.7	64.5	39.8
Sunday, January 28, 2018	6:15	(0:14:55.0)	63.4	81.0	75.8	66.3	40.3
Sunday, January 28, 2018	6:30	(0:14:56.0)	63.9	80.9	76.7	67.4	41.3
Sunday, January 28, 2018	6:45	(0:14:55.0)	71.6	97.1	76.5	71.0	43.3
Sunday, January 28, 2018	7:00	(0:14:55.0)	65.3	80.8	76.5	70.1	43.8
Sunday, January 28, 2018	7:15	(0:14:56.0)	66.6	80.5	76.3	71.6	46.9
Sunday, January 28, 2018	7:30	(0:14:56.0)	67.5	79.1	76.9	72.8	47.5
Sunday, January 28, 2018	7:45	(0:14:55.0)	68.2	84.6	76.7	73.3	50.0
Sunday, January 28, 2018	8:00	(0:14:55.0)	67.0	82.1	77.0	72.3	45.3
Sunday, January 28, 2018	8:15	(0:14:55.0)	67.7	81.4	76.5	72.8	50.0
Sunday, January 28, 2018	8:30	(0:14:55.0)	68.8	81.0	77.6	73.4	51.9
Sunday, January 28, 2018	8:45	(0:14:55.0)	68.8	80.6	77.3	73.3	53.0
Sunday, January 28, 2018	9:00	(0:14:55.0)	69.3	83.2	76.8	73.6	54.0
Sunday, January 28, 2018	9:15	(0:14:56.0)	70.0	80.7	77.1	74.1	55.9
Sunday, January 28, 2018	9:30	(0:14:56.0)	71.5	86.1	79.3	74.7	59.2

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Sunday, January 28, 2018	9:45	(0:14:56.0)	70.4	81.3	77.1	74.0	59.7
Sunday, January 28, 2018	10:00	(0:14:55.0)	70.2	82.9	76.7	73.7	60.9
Sunday, January 28, 2018	10:15	(0:14:55.0)	79.7	107.5	86.1	73.6	61.1
Sunday, January 28, 2018	10:30	(0:14:56.0)	70.6	82.7	76.2	74.0	60.7
Sunday, January 28, 2018	10:45	(0:14:56.0)	70.2	81.0	76.8	73.5	60.1
Sunday, January 28, 2018	11:00	(0:14:56.0)	71.1	92.6	78.0	73.2	62.0
Sunday, January 28, 2018	11:15	(0:14:56.0)	69.5	77.9	75.1	72.7	62.1
Sunday, January 28, 2018	11:30	(0:14:56.0)	69.0	83.9	76.1	71.9	60.8
Sunday, January 28, 2018	11:45	(0:14:55.0)	68.9	89.1	74.9	71.6	62.2
Sunday, January 28, 2018	12:00	(0:14:55.0)	68.6	79.2	75.8	71.6	61.2
Sunday, January 28, 2018	12:15	(0:14:56.0)	69.1	88.8	75.4	72.0	62.2
Sunday, January 28, 2018	12:30	(0:14:55.0)	69.2	84.3	76.4	71.9	62.4
Sunday, January 28, 2018	12:45	(0:14:55.0)	68.7	87.1	75.4	71.9	61.4
Sunday, January 28, 2018	13:00	(0:14:55.0)	83.3	114.2	86.4	73.1	62.1
Sunday, January 28, 2018	13:15	(0:14:56.0)	85.3	113.6	91.0	72.9	62.1
Sunday, January 28, 2018	13:30	(0:14:55.0)	68.2	78.4	73.9	71.1	62.4
Sunday, January 28, 2018	13:45	(0:14:55.0)	71.0	95.1	76.1	72.9	60.4
Sunday, January 28, 2018	14:00	(0:14:55.0)	69.0	79.5	74.8	72.1	61.0
Sunday, January 28, 2018	14:15	(0:14:55.0)	69.1	79.8	75.0	72.2	61.0
Sunday, January 28, 2018	14:30	(0:14:55.0)	69.0	78.2	74.7	72.4	61.0
Sunday, January 28, 2018	14:45	(0:14:55.0)	70.0	91.4	75.9	72.7	60.6
Sunday, January 28, 2018	15:00	(0:14:55.0)	71.5	97.0	78.2	73.1	61.0
Sunday, January 28, 2018	15:15	(0:14:55.0)	69.0	82.6	74.6	72.1	60.6
Sunday, January 28, 2018	15:30	(0:14:55.0)	69.5	82.5	75.4	72.7	60.8
Sunday, January 28, 2018	15:45	(0:14:55.0)	68.9	78.2	74.7	72.1	59.7
Sunday, January 28, 2018	16:00	(0:14:55.0)	70.2	95.8	76.5	73.2	61.0
Sunday, January 28, 2018	16:15	(0:14:55.0)	68.5	80.5	75.0	71.7	60.7
Sunday, January 28, 2018	16:30	(0:14:56.0)	69.1	80.2	75.8	72.5	58.4
Sunday, January 28, 2018	16:45	(0:14:55.0)	70.0	82.4	76.7	73.6	57.4
Sunday, January 28, 2018	17:00	(0:14:55.0)	70.5	89.1	77.5	73.2	57.3
Sunday, January 28, 2018	17:15	(0:14:55.0)	69.4	78.1	75.8	73.1	56.9
Sunday, January 28, 2018	17:30	(0:14:55.0)	71.7	89.7	82.8	73.9	58.1
Sunday, January 28, 2018	17:45	(0:14:54.0)	70.6	91.6	78.4	73.6	57.5
Sunday, January 28, 2018	18:00	(0:14:55.0)	69.0	79.6	76.2	73.0	56.7
Sunday, January 28, 2018	18:15	(0:14:55.0)	69.1	79.3	75.0	72.9	57.7
Sunday, January 28, 2018	18:30	(0:14:55.0)	70.1	84.0	78.3	73.6	56.9
Sunday, January 28, 2018	18:45	(0:14:55.0)	69.4	79.4	75.5	73.3	57.6
Sunday, January 28, 2018	19:00	(0:14:55.0)	69.2	82.8	77.1	73.4	55.1
Sunday, January 28, 2018	19:15	(0:14:55.0)	70.6	92.6	80.3	73.6	55.3
Sunday, January 28, 2018	19:30	(0:14:55.0)	68.2	81.0	75.0	72.2	56.8
Sunday, January 28, 2018	19:45	(0:14:55.0)	69.5	85.6	77.0	73.8	54.6
Sunday, January 28, 2018	20:00	(0:14:55.0)	68.6	81.4	76.3	72.7	55.3
Sunday, January 28, 2018	20:15	(0:14:55.0)	67.9	80.0	76.4	72.5	51.1
Sunday, January 28, 2018	20:30	(0:14:55.0)	68.2	78.1	75.7	73.0	52.3
Sunday, January 28, 2018	20:45	(0:14:55.0)	67.4	81.4	76.6	71.7	53.9
Sunday, January 28, 2018	21:00	(0:14:55.0)	67.7	89.6	77.9	71.4	48.7
Sunday, January 28, 2018	21:15	(0:14:55.0)	66.8	77.4	75.3	71.8	50.8
Sunday, January 28, 2018	21:30	(0:14:55.0)	65.7	79.3	74.6	71.0	46.8
Sunday, January 28, 2018	21:45	(0:14:55.0)	66.5	79.2	76.2	71.7	47.8
Sunday, January 28, 2018	22:00	(0:14:55.0)	65.0	80.7	74.5	69.9	47.0
Sunday, January 28, 2018	22:15	(0:14:55.0)	66.4	80.6	75.3	71.5	49.5
Sunday, January 28, 2018	22:30	(0:14:55.0)	65.6	78.5	74.9	70.7	48.2
Sunday, January 28, 2018	22:45	(0:14:55.0)	64.1	79.3	74.4	69.0	46.8
Sunday, January 28, 2018	23:00	(0:14:55.0)	63.9	78.4	74.5	68.9	47.0
Sunday, January 28, 2018	23:15	(0:14:55.0)	63.1	78.9	74.8	67.8	43.5
Sunday, January 28, 2018	23:30	(0:14:55.0)	62.2	79.3	73.7	66.7	41.9
Sunday, January 28, 2018	23:45	(0:14:55.0)	62.5	80.1	74.4	66.0	41.9
Monday, January 29, 2018	0:00	(0:14:55.0)	60.8	77.3	72.9	64.2	41.7
Monday, January 29, 2018	0:15	(0:14:56.0)	60.8	78.2	73.7	62.3	41.7
Monday, January 29, 2018	0:30	(0:14:56.0)	62.7	82.2	74.9	65.7	41.6
Monday, January 29, 2018	0:45	(0:14:56.0)	58.7	74.6	72.2	59.5	41.6
Monday, January 29, 2018	1:00	(0:14:56.0)	55.2	73.3	69.6	55.1	40.1
Monday, January 29, 2018	1:15	(0:14:56.0)	59.4	77.7	73.2	59.5	41.8
Monday, January 29, 2018	1:30	(0:14:56.0)	58.1	79.5	71.7	56.3	40.2
Monday, January 29, 2018	1:45	(0:14:56.0)	58.7	79.1	72.3	57.4	40.4
Monday, January 29, 2018	2:00	(0:14:56.0)	62.5	88.7	74.6	62.0	40.4
Monday, January 29, 2018	2:15	(0:14:56.0)	55.6	74.8	70.4	53.5	39.8
Monday, January 29, 2018	2:30	(0:14:55.0)	55.8	75.1	71.3	50.7	39.5
Monday, January 29, 2018	2:45	(0:14:56.0)	61.0	84.7	73.7	55.6	40.6
Monday, January 29, 2018	3:00	(0:14:56.0)	61.3	82.1	74.8	62.4	42.8
Monday, January 29, 2018	3:15	(0:14:56.0)	56.5	76.7	71.3	54.6	42.3
Monday, January 29, 2018	3:30	(0:14:56.0)	56.5	80.8	69.3	54.0	42.6
Monday, January 29, 2018	3:45	(0:14:55.0)	58.5	77.8	73.3	58.0	41.8
Monday, January 29, 2018	4:00	(0:14:56.0)	60.5	82.8	73.3	59.3	43.1
Monday, January 29, 2018	4:15	(0:14:56.0)	63.2	83.6	77.0	61.2	41.7
Monday, January 29, 2018	4:30	(0:14:56.0)	62.4	81.0	75.6	64.0	42.1
Monday, January 29, 2018	4:45	(0:14:55.0)	62.3	79.1	75.2	64.8	41.8
Monday, January 29, 2018	5:00	(0:14:56.0)	64.4	82.9	76.2	68.4	43.8
Monday, January 29, 2018	5:15	(0:14:55.0)	64.4	81.7	76.7	68.2	43.5
Monday, January 29, 2018	5:30	(0:14:56.0)	67.5	91.1	79.0	70.6	46.1
Monday, January 29, 2018	5:45	(0:14:56.0)	68.5	84.2	78.3	73.1	49.3
Monday, January 29, 2018	6:00	(0:14:56.0)	69.6	85.4	79.5	74.1	50.9
Monday, January 29, 2018	6:15	(0:14:55.0)	69.8	91.9	77.7	74.0	52.7
Monday, January 29, 2018	6:30	(0:14:56.0)	70.4	84.9	79.0	74.5	54.3
Monday, January 29, 2018	6:45	(0:14:56.0)	71.3	84.5	78.1	74.8	57.7
Monday, January 29, 2018	7:00	(0:14:56.0)	72.1	85.5	80.1	75.1	60.3
Monday, January 29, 2018	7:15	(0:14:56.0)	70.9	85.0	78.6	73.7	62.1
Monday, January 29, 2018	7:30	(0:14:55.0)	70.1	85.3	78.0	72.9	62.9
Monday, January 29, 2018	7:45	(0:14:54.0)	68.6	81.9	76.1	71.7	61.3
Monday, January 29, 2018	8:00	(0:14:56.0)	69.6	88.0	78.0	72.6	61.7
Monday, January 29, 2018	8:15	(0:14:56.0)	72.4	97.2	79.5	73.2	61.1
Monday, January 29, 2018	8:30	(0:14:56.0)	71.7	91.8	80.5	73.9	63.4
Monday, January 29, 2018	8:45	(0:14:55.0)	68.8	81.4	75.0	71.9	63.1
Monday, January 29, 2018	9:00	(0:14:56.0)	70.9	87.2	78.6	74.4	60.3
Monday, January 29, 2018	9:15	(0:14:56.0)	70.6	84.6	79.5	73.3	62.6
Monday, January 29, 2018	9:30	(0:14:55.0)	70.5	88.8	78.8	73.7	60.8

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Monday, January 29, 2018	9:45	(0:14:56.0)	69.9	83.5	78.0	73.0	58.9
Monday, January 29, 2018	10:00	(0:14:55.0)	72.3	97.1	80.0	73.8	61.9
Monday, January 29, 2018	10:15	(0:14:55.0)	75.5	104.9	78.5	73.3	60.2
Monday, January 29, 2018	10:30	(0:14:55.0)	75.7	103.5	84.6	74.6	61.4
Monday, January 29, 2018	10:45	(0:14:55.0)	71.6	91.5	79.6	73.9	61.6
Monday, January 29, 2018	11:00	(0:14:55.0)	71.3	85.0	80.1	74.4	59.4
Monday, January 29, 2018	11:15	(0:14:55.0)	77.8	104.9	84.9	73.8	59.6
Monday, January 29, 2018	11:30	(0:14:55.0)	70.3	86.7	78.1	73.3	62.6
Monday, January 29, 2018	11:45	(0:14:56.0)	69.8	80.9	78.1	72.8	61.5
Monday, January 29, 2018	12:00	(0:14:55.0)	70.5	84.9	77.9	74.0	59.2
Monday, January 29, 2018	12:15	(0:14:55.0)	71.7	91.3	81.1	73.2	61.0
Monday, January 29, 2018	12:30	(0:14:56.0)	70.3	82.1	78.4	73.4	61.3
Monday, January 29, 2018	12:45	(0:14:56.0)	70.3	82.8	76.6	73.3	62.5
Monday, January 29, 2018	13:00	(0:14:55.0)	71.7	82.8	79.5	75.0	62.0
Monday, January 29, 2018	13:15	(0:14:55.0)	70.7	83.6	77.7	74.1	60.7
Monday, January 29, 2018	13:30	(0:14:55.0)	71.5	88.5	81.8	74.0	62.5
Monday, January 29, 2018	13:45	(0:14:55.0)	70.9	89.1	78.5	73.7	63.7
Monday, January 29, 2018	14:00	(0:14:55.0)	70.0	79.8	76.8	73.5	60.8
Monday, January 29, 2018	14:15	(0:14:56.0)	70.6	86.4	78.3	73.5	62.1
Monday, January 29, 2018	14:30	(0:14:55.0)	70.8	81.8	78.5	73.8	61.5
Monday, January 29, 2018	14:45	(0:14:55.0)	76.9	104.8	84.1	74.5	61.8
Monday, January 29, 2018	15:00	(0:14:55.0)	70.6	82.4	78.0	73.7	61.5
Monday, January 29, 2018	15:15	(0:14:55.0)	68.5	91.0	76.5	70.8	62.6
Monday, January 29, 2018	15:30	(0:14:55.0)	74.0	100.2	80.6	73.1	60.4
Monday, January 29, 2018	15:45	(0:14:55.0)	68.6	82.9	75.7	71.6	61.8
Monday, January 29, 2018	16:00	(0:14:55.0)	69.8	81.4	77.0	72.8	61.9
Monday, January 29, 2018	16:15	(0:14:55.0)	69.3	86.0	76.2	72.3	62.6
Monday, January 29, 2018	16:30	(0:14:55.0)	68.0	80.5	75.0	71.5	61.1
Monday, January 29, 2018	16:45	(0:14:55.0)	69.1	84.1	74.6	72.3	61.9
Monday, January 29, 2018	17:00	(0:14:55.0)	73.0	96.3	84.1	72.9	61.8
Monday, January 29, 2018	17:15	(0:14:55.0)	68.5	87.6	77.1	71.6	60.3
Monday, January 29, 2018	17:30	(0:14:55.0)	69.4	82.7	76.6	72.2	62.8
Monday, January 29, 2018	17:45	(0:14:54.0)	81.9	110.7	88.5	72.7	61.0
Monday, January 29, 2018	18:00	(0:14:55.0)	71.1	89.5	82.4	73.1	59.1
Monday, January 29, 2018	18:15	(0:14:55.0)	84.2	113.9	90.9	73.8	62.5
Monday, January 29, 2018	18:30	(0:14:55.0)	70.3	82.2	76.3	73.7	59.8
Monday, January 29, 2018	18:45	(0:14:55.0)	69.7	80.2	76.4	73.5	55.6
Monday, January 29, 2018	19:00	(0:14:55.0)	70.6	80.6	77.1	73.8	60.0
Monday, January 29, 2018	19:15	(0:14:55.0)	70.7	82.8	77.5	74.2	59.1
Monday, January 29, 2018	19:30	(0:14:55.0)	70.1	79.4	76.8	73.7	58.5
Monday, January 29, 2018	19:45	(0:14:55.0)	69.9	81.7	76.7	73.8	56.1
Monday, January 29, 2018	20:00	(0:14:55.0)	70.4	83.8	77.7	74.1	57.3
Monday, January 29, 2018	20:15	(0:14:55.0)	69.8	85.7	77.9	73.7	55.2
Monday, January 29, 2018	20:30	(0:14:55.0)	69.3	86.8	76.8	73.5	54.8
Monday, January 29, 2018	20:45	(0:14:55.0)	69.4	82.0	77.1	73.6	53.8
Monday, January 29, 2018	21:00	(0:14:55.0)	68.9	79.5	76.6	73.4	53.8
Monday, January 29, 2018	21:15	(0:14:55.0)	68.6	80.1	76.9	73.3	52.6
Monday, January 29, 2018	21:30	(0:14:55.0)	68.6	80.7	76.9	73.2	53.4
Monday, January 29, 2018	21:45	(0:14:55.0)	68.1	80.4	75.7	72.7	52.0
Monday, January 29, 2018	22:00	(0:14:55.0)	67.9	79.4	76.1	73.1	48.8
Monday, January 29, 2018	22:15	(0:14:55.0)	67.6	78.7	77.1	72.6	50.2
Monday, January 29, 2018	22:30	(0:14:55.0)	66.6	80.6	76.9	71.8	44.5
Monday, January 29, 2018	22:45	(0:14:55.0)	64.6	80.0	75.3	69.5	44.6
Monday, January 29, 2018	23:00	(0:14:55.0)	64.7	78.9	76.0	69.7	45.3
Monday, January 29, 2018	23:15	(0:14:55.0)	65.3	78.3	75.8	70.9	40.2
Monday, January 29, 2018	23:30	(0:14:55.0)	64.8	79.0	76.4	69.4	41.3
Monday, January 29, 2018	23:45	(0:14:55.0)	63.3	83.1	75.7	65.2	38.4
Tuesday, January 30, 2018	0:00	(0:14:55.0)	63.7	82.1	75.5	67.6	39.6
Tuesday, January 30, 2018	0:15	(0:14:56.0)	63.0	82.4	75.7	64.2	38.1
Tuesday, January 30, 2018	0:30	(0:14:56.0)	58.3	75.4	72.4	57.6	38.6
Tuesday, January 30, 2018	0:45	(0:14:56.0)	61.7	81.9	75.2	60.6	41.9
Tuesday, January 30, 2018	1:00	(0:14:55.0)	59.7	79.1	74.1	56.5	37.0
Tuesday, January 30, 2018	1:15	(0:14:56.0)	60.3	85.5	73.8	55.0	37.3
Tuesday, January 30, 2018	1:30	(0:14:55.0)	59.1	79.3	73.2	54.6	37.2
Tuesday, January 30, 2018	1:45	(0:14:56.0)	59.3	81.3	73.3	57.5	37.3
Tuesday, January 30, 2018	2:00	(0:14:54.0)	58.1	75.8	72.9	54.4	36.5
Tuesday, January 30, 2018	2:15	(0:14:55.0)	57.7	78.4	72.4	52.2	37.7
Tuesday, January 30, 2018	2:30	(0:14:56.0)	56.3	75.7	72.1	48.6	38.2
Tuesday, January 30, 2018	2:45	(0:14:56.0)	59.4	78.9	74.3	55.9	37.2
Tuesday, January 30, 2018	3:00	(0:14:55.0)	56.3	75.1	71.5	49.9	38.1
Tuesday, January 30, 2018	3:15	(0:14:56.0)	59.3	77.1	73.3	58.4	39.8
Tuesday, January 30, 2018	3:30	(0:14:56.0)	54.5	76.6	69.3	47.7	38.0
Tuesday, January 30, 2018	3:45	(0:14:55.0)	60.8	79.0	75.2	57.7	38.7
Tuesday, January 30, 2018	4:00	(0:14:55.0)	60.6	79.0	74.7	58.0	38.4
Tuesday, January 30, 2018	4:15	(0:14:55.0)	63.2	81.9	76.4	64.6	39.8
Tuesday, January 30, 2018	4:30	(0:14:55.0)	61.1	82.5	75.5	57.9	40.9
Tuesday, January 30, 2018	4:45	(0:14:55.0)	64.5	81.5	77.4	66.8	39.2
Tuesday, January 30, 2018	5:00	(0:14:55.0)	66.6	86.7	78.8	68.7	39.8
Tuesday, January 30, 2018	5:15	(0:14:55.0)	65.7	80.5	76.9	70.8	43.0
Tuesday, January 30, 2018	5:30	(0:14:56.0)	67.1	82.0	78.0	72.0	46.2
Tuesday, January 30, 2018	5:45	(0:14:55.0)	70.5	91.0	80.5	74.9	50.2
Tuesday, January 30, 2018	6:00	(0:14:55.0)	69.3	81.5	77.9	74.5	47.5
Tuesday, January 30, 2018	6:15	(0:14:56.0)	69.6	83.1	77.7	74.6	50.5
Tuesday, January 30, 2018	6:30	(0:14:55.0)	72.2	85.0	80.3	76.3	57.9
Tuesday, January 30, 2018	6:45	(0:14:55.0)	72.1	81.7	78.7	76.2	56.0
Tuesday, January 30, 2018	7:00	(0:14:56.0)	75.0	98.4	81.9	76.5	64.1
Tuesday, January 30, 2018	7:15	(0:14:56.0)	73.0	87.8	81.7	75.6	64.1
Tuesday, January 30, 2018	7:30	(0:14:55.0)	70.7	87.7	80.4	73.6	61.4
Tuesday, January 30, 2018	7:45	(0:14:55.0)	69.9	84.9	78.7	73.0	61.5
Tuesday, January 30, 2018	8:00	(0:14:56.0)	69.4	84.7	78.0	72.4	62.1
Tuesday, January 30, 2018	8:15	(0:14:54.0)	69.4	81.1	76.1	72.8	62.5
Tuesday, January 30, 2018	8:30	(0:14:55.0)	70.1	89.4	78.5	73.0	61.7
Tuesday, January 30, 2018	8:45	(0:14:55.0)	74.0	100.7	82.2	73.6	61.9
Tuesday, January 30, 2018	9:00	(0:14:55.0)	70.9	84.1	79.3	73.7	62.9
Tuesday, January 30, 2018	9:15	(0:14:56.0)	77.1	106.0	82.9	74.7	62.0
Tuesday, January 30, 2018	9:30	(0:14:55.0)	71.6	83.2	79.3	74.9	62.8

Start date	Time	Duration	LAeq	LAMAX	LA1%	LA10%	LA90%
Tuesday, January 30, 2018	9:45	(0:14:56.0)	70.8	84.3	78.4	73.9	59.3
Tuesday, January 30, 2018	10:00	(0:14:55.0)	71.5	84.5	78.8	74.7	61.5
Tuesday, January 30, 2018	10:15	(0:14:56.0)	73.7	100.5	80.5	74.6	62.5
Tuesday, January 30, 2018	10:30	(0:14:55.0)	70.7	83.0	79.5	73.8	62.4
Tuesday, January 30, 2018	10:45	(0:14:55.0)	71.7	86.6	80.3	74.8	61.1
Tuesday, January 30, 2018	11:00	(0:14:55.0)	76.5	107.5	82.4	74.9	59.5
Tuesday, January 30, 2018	11:15	(0:14:55.0)	71.0	88.6	79.1	74.1	61.1
Tuesday, January 30, 2018	11:30	(0:14:55.0)	70.8	82.2	78.4	73.9	61.8
Tuesday, January 30, 2018	11:45	(0:14:55.0)	72.0	90.5	82.2	74.1	62.0
Tuesday, January 30, 2018	12:00	(0:14:56.0)	71.5	83.7	80.5	74.4	60.8
Tuesday, January 30, 2018	12:15	(0:14:55.0)	70.5	83.2	79.2	73.4	62.2
Tuesday, January 30, 2018	12:30	(0:14:55.0)	70.3	82.0	78.2	73.5	62.3
Tuesday, January 30, 2018	12:45	(0:14:55.0)	71.6	92.6	80.6	73.2	64.2
Tuesday, January 30, 2018	13:00	(0:14:56.0)	85.3	116.0	89.1	74.7	61.8
Tuesday, January 30, 2018	13:15	(0:14:55.0)	70.9	86.9	77.3	74.2	61.1
Tuesday, January 30, 2018	13:30	(0:14:55.0)	70.2	83.5	77.5	73.2	60.9
Tuesday, January 30, 2018	13:45	(0:14:55.0)	69.4	81.4	77.1	72.3	61.0
Tuesday, January 30, 2018	14:00	(0:14:55.0)	70.4	83.4	78.0	73.7	61.6
Tuesday, January 30, 2018	14:15	(0:14:55.0)	70.4	84.7	78.1	73.3	61.5
Tuesday, January 30, 2018	14:30	(0:14:55.0)	70.6	83.4	77.8	73.7	61.4
Tuesday, January 30, 2018	14:45	(0:14:55.0)	72.2	90.4	85.0	73.0	63.3
Tuesday, January 30, 2018	15:00	(0:14:55.0)	69.8	81.2	76.9	73.1	60.7
Tuesday, January 30, 2018	15:15	(0:14:55.0)	68.8	79.3	75.0	71.9	62.8
Tuesday, January 30, 2018	15:30	(0:14:55.0)	69.5	83.4	78.1	71.9	62.4
Tuesday, January 30, 2018	15:45	(0:14:55.0)	69.8	82.9	75.9	72.8	61.5
Tuesday, January 30, 2018	16:00	(0:14:55.0)	70.0	84.4	78.7	72.9	61.2
Tuesday, January 30, 2018	16:15	(0:14:55.0)	68.8	82.9	77.0	71.3	61.9
Tuesday, January 30, 2018	16:30	(0:14:55.0)	69.6	80.0	75.0	72.6	62.1
Tuesday, January 30, 2018	16:45	(0:14:55.0)	69.0	79.4	75.7	72.2	61.9
Tuesday, January 30, 2018	17:00	(0:14:55.0)	69.9	80.3	76.0	73.1	62.8
Tuesday, January 30, 2018	17:15	(0:14:55.0)	70.5	86.5	76.4	73.7	61.3
Tuesday, January 30, 2018	17:30	(0:10:5.0)	71.1	94.3	77.2	72.1	62.8
Tuesday, January 30, 2018	21:29	(0:0:51.0)	69.3	75.3	75.1	73.8	57.6
Tuesday, January 30, 2018	21:30	(0:14:55.0)	68.8	87.0	76.2	73.0	51.6
Tuesday, January 30, 2018	21:45	(0:14:55.0)	68.1	78.5	75.9	72.8	53.1
Tuesday, January 30, 2018	22:00	(0:14:55.0)	69.1	78.4	76.3	73.3	55.4
Tuesday, January 30, 2018	22:15	(0:14:55.0)	67.8	81.6	76.0	72.5	52.8
Tuesday, January 30, 2018	22:30	(0:14:55.0)	66.7	80.5	75.5	71.5	49.9
Tuesday, January 30, 2018	22:45	(0:14:55.0)	66.5	77.5	75.3	71.5	49.4
Tuesday, January 30, 2018	23:00	(0:14:55.0)	64.9	76.6	74.3	70.5	45.9
Tuesday, January 30, 2018	23:15	(0:14:55.0)	63.5	79.9	74.2	68.4	44.2
Tuesday, January 30, 2018	23:30	(0:14:55.0)	64.6	82.6	75.8	69.2	43.2
Tuesday, January 30, 2018	23:45	(0:14:55.0)	64.0	77.5	75.2	68.9	42.1
Wednesday, January 31, 2018	0:00	(0:14:55.0)	63.3	77.0	74.4	68.2	43.5
Wednesday, January 31, 2018	0:15	(0:14:56.0)	61.3	79.3	74.0	63.6	42.2
Wednesday, January 31, 2018	0:30	(0:14:56.0)	62.8	81.2	75.0	65.7	42.9
Wednesday, January 31, 2018	0:45	(0:14:56.0)	58.3	76.7	72.2	57.1	40.9
Wednesday, January 31, 2018	1:00	(0:14:56.0)	64.3	90.4	75.0	65.5	41.7
Wednesday, January 31, 2018	1:15	(0:14:55.0)	60.2	79.6	73.6	59.0	40.3
Wednesday, January 31, 2018	1:30	(0:14:56.0)	60.1	79.5	74.1	57.8	39.5
Wednesday, January 31, 2018	1:45	(0:14:56.0)	60.8	78.1	74.8	61.7	40.9
Wednesday, January 31, 2018	2:00	(0:14:56.0)	60.4	75.5	73.4	62.4	42.2
Wednesday, January 31, 2018	2:15	(0:14:56.0)	58.4	80.3	72.3	55.5	41.1
Wednesday, January 31, 2018	2:30	(0:14:56.0)	61.4	77.8	75.1	62.8	42.7
Wednesday, January 31, 2018	2:45	(0:14:56.0)	61.6	79.7	75.9	60.0	41.6
Wednesday, January 31, 2018	3:00	(0:14:56.0)	54.1	76.2	68.2	51.1	40.3
Wednesday, January 31, 2018	3:15	(0:14:55.0)	57.0	79.1	72.0	50.3	39.9
Wednesday, January 31, 2018	3:30	(0:14:56.0)	59.7	81.0	73.8	55.9	40.8
Wednesday, January 31, 2018	3:45	(0:14:56.0)	54.8	75.6	69.9	49.4	39.0
Wednesday, January 31, 2018	4:00	(0:14:56.0)	62.9	87.8	75.3	59.3	39.4
Wednesday, January 31, 2018	4:15	(0:14:56.0)	60.7	81.5	75.0	57.4	40.8
Wednesday, January 31, 2018	4:30	(0:14:56.0)	63.2	80.4	76.7	64.8	41.5
Wednesday, January 31, 2018	4:45	(0:14:56.0)	64.3	85.4	76.2	67.0	42.4
Wednesday, January 31, 2018	5:00	(0:14:55.0)	65.0	85.1	77.4	67.8	44.0
Wednesday, January 31, 2018	5:15	(0:14:55.0)	65.4	80.2	77.5	69.8	44.3
Wednesday, January 31, 2018	5:30	(0:14:56.0)	65.9	80.5	76.5	71.6	45.6
Wednesday, January 31, 2018	5:45	(0:14:56.0)	69.0	85.3	78.4	74.1	51.3
Wednesday, January 31, 2018	6:00	(0:14:55.0)	69.5	84.2	78.8	74.2	51.0
Wednesday, January 31, 2018	6:15	(0:14:55.0)	71.0	84.8	81.0	75.3	53.4
Wednesday, January 31, 2018	6:30	(0:14:55.0)	70.9	82.9	78.9	75.6	56.1
Wednesday, January 31, 2018	6:45	(0:14:55.0)	73.4	84.6	80.2	76.8	60.2
Wednesday, January 31, 2018	7:00	(0:14:55.0)	73.7	84.5	80.7	76.7	62.0
Wednesday, January 31, 2018	7:15	(0:14:55.0)	71.6	90.5	78.0	74.6	63.5
Wednesday, January 31, 2018	7:30	(0:14:55.0)	69.4	89.6	75.3	72.6	62.3
Wednesday, January 31, 2018	7:45	(0:14:55.0)	69.9	85.8	76.3	72.9	63.7
Wednesday, January 31, 2018	8:00	(0:14:55.0)	71.1	82.4	77.2	74.5	61.7
Wednesday, January 31, 2018	8:15	(0:14:55.0)	69.5	85.4	78.0	72.3	63.3
Wednesday, January 31, 2018	8:30	(0:14:55.0)	70.0	84.7	78.0	72.3	64.1
Wednesday, January 31, 2018	8:45	(0:14:55.0)	68.5	81.9	76.7	70.5	64.5
Wednesday, January 31, 2018	9:00	(0:14:55.0)	70.7	82.1	78.1	74.7	63.9
Wednesday, January 31, 2018	9:15	(0:14:55.0)	70.4	90.6	78.2	72.4	64.8
Wednesday, January 31, 2018	9:30	(0:14:55.0)	71.0	90.1	81.3	73.8	62.4
Wednesday, January 31, 2018	9:45	(0:14:55.0)	69.7	80.7	76.4	72.7	60.8
Wednesday, January 31, 2018	10:00	(0:14:56.0)	75.7	102.4	84.5	73.6	62.8
Wednesday, January 31, 2018	10:15	(0:14:56.0)	73.9	91.5	82.3	77.1	65.2
Wednesday, January 31, 2018	10:30	(0:14:55.0)	78.6	104.9	81.6	77.2	65.8
Wednesday, January 31, 2018	10:45	(0:14:55.0)	72.4	82.6	79.8	75.5	63.6
Wednesday, January 31, 2018	11:00	(0:14:55.0)	77.5	103.5	84.2	75.5	62.9
Wednesday, January 31, 2018	11:15	(0:14:55.0)	71.1	81.2	78.6	74.1	63.9

Caversham, Reading

Equipment - 2x (Norsonic 140 + Wet weather kit)

Calibration - Before and after with no decernable drift

Rear - Free field

Start date	Start Time	Duration	LAeqT	LAMAX	LA1%	LA10%	LA90%
Thursday, January 25, 2018	11:45	7:15	51.1	80.4	58.0	52.7	48.0
Friday, January 26, 2018	7:00	12:00	52.7	80.9	61.2	53.2	46.2
Saturday, January 27, 2018	7:00	12:00	52.8	80.1	59.4	53.5	48.8
Sunday, January 28, 2018	7:00	12:00	52.8	85.4	61.4	53.4	46.2
Monday, January 29, 2018	7:00	12:00	52.2	80.7	59.3	52.9	47.0
Tuesday, January 30, 2018	7:00	12:00	52.1	82.5	59.4	52.9	46.9
Wednesday, January 31, 2018	14:30	4:30	53.2	77.2	60.5	55.2	48.8
Thursday, January 25, 2018	19:00	4:00	50.9	77.9	56.9	51.7	45.2
Friday, January 26, 2018	19:00	4:00	48.1	72.6	54.8	49.8	43.2
Saturday, January 27, 2018	19:00	4:00	52.5	83.2	57.6	51.8	46.1
Sunday, January 28, 2018	19:00	4:00	48.9	73.3	57.2	51.1	43.4
Monday, January 29, 2018	19:00	4:00	47.7	74.1	53.6	50.0	42.4
Tuesday, January 30, 2018	19:00	4:00	50.0	78.3	54.6	50.9	45.5
Thursday, January 25, 2018	11:00	8:00	45.7	72.6	55.7	48.0	36.4
Friday, January 26, 2018	11:00	8:00	45.3	69.3	52.8	48.2	39.2
Saturday, January 27, 2018	11:00	8:00	44.2	71.9	51.7	47.3	35.0
Sunday, January 28, 2018	11:00	8:00	45.4	68.9	54.3	49.0	37.2
Monday, January 29, 2018	11:00	8:00	44.5	70.8	53.5	48.8	33.5
Tuesday, January 30, 2018	11:00	8:00	46.1	71.5	54.4	49.8	37.6

Front - Façade level

Start date	Start Time	Duration	LAeqT	LAMAX	LA1%	LA10%	LA90%
Thursday, January 25, 2018	11:45	7:15	69.8	103.6	76.9	72.6	61.5
Friday, January 26, 2018	7:00	12:00	73.9	114.6	78.7	73.4	62.4
Saturday, January 27, 2018	7:00	12:00	74.3	114.2	77.0	73.2	61.0
Sunday, January 28, 2018	7:00	12:00	73.4	114.2	76.8	73.0	56.3
Monday, January 29, 2018	7:00	12:00	73.6	113.9	78.9	73.4	61.4
Tuesday, January 30, 2018	7:00	12:00	73.4	116.0	79.2	73.8	61.9
Wednesday, January 31, 2018	14:30	4:30	73.0	104.9	79.7	74.8	63.5
Thursday, January 25, 2018	19:00	4:00	72.2	109.8	76.9	73.1	54.1
Friday, January 26, 2018	19:00	4:00	70.6	102.7	76.4	72.7	56.1
Saturday, January 27, 2018	19:00	4:00	75.5	114.5	77.4	73.4	55.1
Sunday, January 28, 2018	19:00	4:00	67.7	92.6	76.1	72.2	50.4
Monday, January 29, 2018	19:00	4:00	69.1	86.8	76.9	73.4	52.3
Tuesday, January 30, 2018	19:00	4:00	68.0	87.0	76.0	72.7	52.0
Thursday, January 25, 2018	11:00	8:00	65.5	95.5	76.6	70.0	39.7
Friday, January 26, 2018	11:00	8:00	64.7	92.4	75.7	69.4	41.0
Saturday, January 27, 2018	11:00	8:00	64.9	97.1	75.4	68.7	38.9
Sunday, January 28, 2018	11:00	8:00	64.5	91.9	76.1	68.7	41.6
Monday, January 29, 2018	11:00	8:00	65.4	91.0	77.2	69.7	38.3
Tuesday, January 30, 2018	11:00	8:00	65.4	90.4	77.1	70.0	41.4

Appendix D: Building envelope calculations

Source Data

Free field at facade location
Input "0" if subsequent Rw values are not available

Description	63	125	250	500	1000	2000	4000	8000	un-weighted sound level (dB)	Weighted sound level (dBA)
Leq,16hour (freefield)	74	68	65	62	66.2	65.3	55.1	48.7	76.5	70.1
Leq,8hour (freefield)	67	62	60	56	58.8	56.1	47.8	40.1	69.8	62.4
Leq peak night (freefield)	73	69	65	63	65.8	63.1	54.7	46.5	76.0	69.2
LAMAX (freefield)	79	73	70	67	69.1	66.4	58.7	51.7	81.1	72.7

BS8233 - Calculation of external noise to rooms

Project: Prospect Street, Caversham, Reading

Room: Residential

<u>Room Specification</u>	Width	4.5	metres
	Length	5.5	metres
	Height	2.1	metres
	Volume	52.0	metres^2
	Reverberation time	0.5	seconds
	Equivalent absorption area(A)	17	(Sabine formula)
	Area of windows	3.0	metres^2
	Total facade area	10.0	metres^2
	Reference absorption (Ao)	10.0	metres^2
	Area of ceiling if roof is facade	0.0	metres^2
	Constant (+0/3/6 dB)	3	
	Number of vents	1	

Notes in input

- Width of room
- Length of room
- Height of room
- Calculated volume of room
- Reverberation of room (BS8233)
- Calculated equivalent absorption area (assumed sabine)
- Area of window
- Total area of external facade
- As stated in BS8233:1999
- Area of ceiling if exposed to external noise
- constant - $K = +6$ direct normal incidence, $K = 0$ random incidence
- number of vents in room

Titles as described in BS8233

Ao	10	Reference absorption (Ao)
Sf	10	Total facade area
Swi	3.0	Area of windows
Sew	7.0	Area of walls
Srr	0	Area of ceilings
S	10	Outside wall area
A	17	Equivalent absorption area(A)
Sr	0	Ceiling area

Sound pressure level (free field, dB)	63	125	250	500	1000	2000	4000	8000	dB/dBA/Rw/Dn,e	Leq,16hour (freefield)
	74.0	68.3	65.2	61.6	66.2	65.3	55.1	48.7	76.5	
A weighting	-26	-16	-9	-3	0	1	1	0		
Sound pressure level (free field, dBA)	48	52	56	59	66	66	56	49	70.1	
Reduction value of Window, Rw	21	23	26	35	43	48	55	31	39 (-2,-6)	Pilkington Insulight™ Phon incorporating Pilkington K Glass™ 6.8/16/6.8*
Reduction value of external wall, Rew	36	41	45	45	54	58	58	58		Brick/Block cavity
Reduction value of roof and ceiling, Rrr	100	100	100	100	100	100	100	100	100.00	Assumed no wall
Reduction value of vent, Dn,e	37	38	35	35	38	45	53	53	39(0;-2)	Greenwood: AWW39
Reduction value of vent, Dn,e (number of vents included)	37	38	35	35	38	45	53	53		
Absorption in room - A	17	17	17	17	17	17	17	17		
	49.1	41.4	36.4	28.7	29.5	21.8	4.3	13.4		
	23.1	25.4	27.4	25.7	29.5	22.8	5.3	13.4	34.1	dBA : Predicted noise level in room

BS8233 - Calculation of external noise to rooms

Project: Prospect Street, Caversham, Reading

Room: Residential

<u>Room Specification</u>	Width	4.5	metres
	Length	5.5	metres
	Height	2.1	metres
	Volume	52.0	metres^2
	Reverberation time	0.5	seconds
	Equivalent absorption area(A)	17	(Sabine formula)
	Area of windows	3.0	metres^2
	Total facade area	10.0	metres^2
	Reference absorption (Ao)	10.0	metres^2
	Area of ceiling if roof is facade	0.0	metres^2
	Constant (+0/3/6 dB)	3	
	Number of vents	1	

Notes in input

- Width of room
- Length of room
- Height of room
- Calculated volume of room
- Reverberation of room (BS8233)
- Calculated equivalent absorption area (assumed sabine)
- Area of window
- Total area of external facade
- As stated in BS8233:1999
- Area of ceiling if exposed to external noise
- constant - $K = +6$ direct normal incidence, $K = 0$ random incidence
- number of vents in room

Titles as described in BS8233

Ao	10	Reference absorption (Ao)
Sf	10	Total facade area
Swi	3.0	Area of windows
Sew	7.0	Area of walls
Srr	0	Area of ceilings
S	10	Outside wall area
A	17	Equivalent absorption area(A)
Sr	0	Ceiling area

Sound pressure level (free field, dB)	63	125	250	500	1000	2000	4000	8000	dB/dBA/Rw/Dn,e	Leq,8hour (freefield)
	67.3	61.9	59.9	56.4	58.8	56.1	47.8	40.1	69.8	
A weighting	-26	-16	-9	-3	0	1	1	0		
Sound pressure level (free field, dBA)	41	46	51	53	59	57	49	40	62.4	
Reduction value of Window, Rw	21	23	26	35	43	48	55	57	39 (-2,-6)	Pilkington Insulight™ Phon incorporating Pilkington K Glass™ 6.8/16/6.8*
Reduction value of external wall, Rew	36	41	45	45	54	58	58	58		Brick/Block cavity
Reduction value of roof and ceiling, Rrr	100	100	100	100	100	100	100	100	100.00	Assumed no wall
Reduction value of vent, Dn,e	37	38	35	35	38	45	53	53	39(0;-2)	Greenwood: AWW39
Reduction value of vent, Dn,e (number of vents included)	37	38	35	35	38	45	53	53		
Absorption in room - A	17	17	17	17	17	17	17	17		
	42.5	35.1	31.1	23.6	22.1	12.6	-2.9	-10.8		
	16.5	19.1	22.1	20.6	22.1	13.6	-1.9	-10.8	27.7	dBA : Predicted noise level in room

BS8233 - Calculation of external noise to rooms

Project: Prospect Street, Caversham, Reading

Room: Residential

<u>Room Specification</u>	Width	4.5	metres
	Length	5.5	metres
	Height	2.1	metres
	Volume	52.0	metres^2
	Reverberation time	0.5	seconds
	Equivalent absorption area(A)	17	(Sabine formula)
	Area of windows	3.0	metres^2
	Total facade area	10.0	metres^2
	Reference absorption (Ao)	10.0	metres^2
	Area of ceiling if roof is facade	0.0	metres^2
	Constant (+0/3/6 dB)	3	
	Number of vents	1	

Notes in input

- Width of room
- Length of room
- Height of room
- Calculated volume of room
- Reverberation of room (BS8233)
- Calculated equivalent absorption area (assumed sabine)
- Area of window
- Total area of external facade
- As stated in BS8233:1999
- Area of ceiling if exposed to external noise
- constant - $K = +6$ direct normal incidence, $K = 0$ random incidence
- number of vents in room

Titles as described in BS8233

Ao	10	Reference absorption (Ao)
Sf	10	Total facade area
Swi	3.0	Area of windows
Sew	7.0	Area of walls
Srr	25	Area of ceilings
S	35	Outside wall area
A	17	Equivalent absorption area(A)
Sr	0	Ceiling area

Sound pressure level (free field, dB)	63	125	250	500	1000	2000	4000	8000	dB/dBA/Rw/Dn,e	LAMAX (freefield)
	79.1	72.8	69.5	66.6	69.1	66.4	58.7	51.7	81.1	
A weighting	-26	-16	-9	-3	0	1	1	0		
Sound pressure level (free field, dBA)	53	57	61	64	69	67	60	52	72.7	
Reduction value of Window, Rw	21	23	26	35	43	48	55	57	39 (-2,-6)	Pilkington Insulight™ Phon incorporating Pilkington K Glass™ 6.8/16/6.8*
Reduction value of external wall, Rew	36	41	45	45	54	58	58	58		
Reduction value of roof and ceiling, Rrr	100	100	100	100	100	100	100	100	100.00	
Reduction value of vent, Dn,e	37	38	35	35	38	45	53	53	39(0;-2)	
Reduction value of vent, Dn,e (number of vents included)	37	38	35	35	38	45	53	53		Greenwood: AWW39
Absorption in room - A	17	17	17	17	17	17	17	17		
	54.3	45.9	40.7	33.8	32.3	22.9	8.0	0.8		
	28.3	29.9	31.7	30.8	32.3	23.9	9.0	0.8	38.0	dBA : Predicted noise level in room