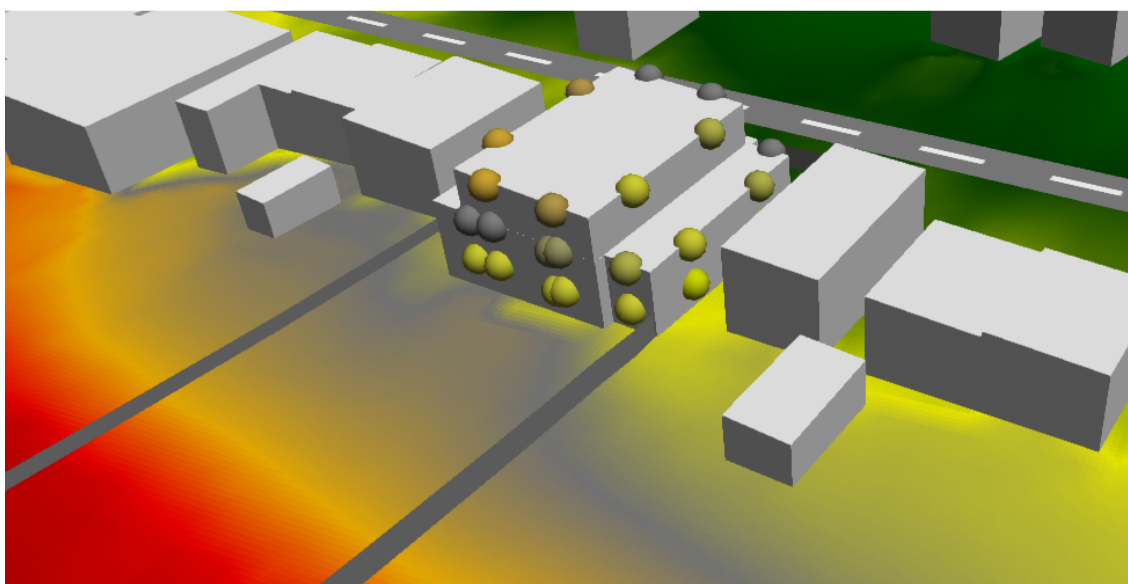


Project: 39 Brunswick Hill, Reading
Client: EB Solutions Ltd

Date: 10/12/2017
Reference: 4122_ENA/001



Project:	39 Brunswick Hill, Reading			
Client:	EB Solutions Ltd			
Report Title:	Environmental Noise Assessment			
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Contents

1.0	Introduction	1
2.0	Site Description	1
3.0	Planning Policy Guidance	2
3.1	Noise Policy Statement for England (NPSE) March 2010	2
3.2	National Planning Practice Guidance – Noise (March 2014)	3
4.0	Guidance on the Assessment of Noise Levels.....	5
4.1	World Health Organisation	5
4.2	BS 8233:2014: “Guidance on sound insulation and noise reduction for buildings”	5
4.2.1	Dwellings	5
5.0	Design Intent	6
6.0	Environmental Noise Surveys	7
6.1	Environmental Noise	7
7.0	Results and Data Analysis	8
7.1	Environmental Noise Survey Results.....	8
7.2	With-scheme Noise Levels.....	10
8.0	Facade Sound Insulation	11
8.1	Outline Building Envelope Sound Insulation Performance	11
9.0	Uncertainty	12
10.0	Conclusions	13

Appendix A: Measurement Data

1.0 Introduction

It is proposed that a parcel of land located at 39 Brunswick Hill, Reading, Berkshire, be redeveloped to provide new residential accommodation.

This assessment covers environmental noise considerations associated with the development in the context of national and applicable planning policy and guidance and is based on the principles and recommendations contained within the following documents.

- National Policy Statement for England (NPSE) March 2010;
- National Planning Practice Guidance "Noise" August 2013;
- World Health Organisation: 1999: *"Guidelines for Community Noise"*;
- BS 8233:2014 *"Guidance on sound insulation and noise reduction for buildings"*.

2.0 Site Description

The site is illustrated by plan below.

Figure 1: Site location:



The eastern boundary of the site is delineated by Brunswick Hill, a relatively low trafficked local highway. The principal interests in this aspect are of residential usage. The western boundary of the site adjoins overground railway lines located within a cutting and running roughly in a north-to-south orientation. Beyond this to the west lie residential areas. To the north and south of the plot lie existing residential dwellings.

3.0 Planning Policy Guidance

3.1 Noise Policy Statement for England (NPSE) March 2010

The Government published the Noise Policy Statement for England (NPSE) in March 2010 with the aim of providing clarity regarding current policies and practices to enable noise management decisions to be made within the wider context, at the most appropriate level. The aims of the Government's noise policy are:

Through the effective management and control of environmental, neighbour and neighbourhood noise within the context of Government policy on sustainable development:

1. Avoid significant adverse impacts on health and quality of life;
2. Mitigate and minimise adverse impacts on health and quality of life; and
3. Where possible, contribute to the improvement of health and quality of life.

In its aims the Policy uses the key phrases "Significant adverse" and "adverse". In clarifying what these mean the Policy notes that "...there are two established concepts from toxicology that are currently being applied to noise impacts, for example, by the WHO. They are:

NOEL – No Observed Effect Level

This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to the noise.

LOAEL – Lowest Observed Adverse Effect Level

This is the level above which adverse effects on health and quality of life can be detected."

The Policy extends these concepts to include:

SOAEL – Significant Observed Adverse Effect Level

This is the level above which significant adverse effects on health and quality of life occur."

It is further noted that NPSE should apply to all forms of noise including environmental noise, neighbour noise and neighbourhood noise.

The Policy notes that it is not possible to have a single objective noise-based measure that defines SOAEL that is applicable to all sources of noise in all situations. Consequently, the SOAEL is likely to be different for different noise sources, for different receptors and at different times. It is for a project to identify relevant SOAELs taking account the different sources of exposure and different receptors.

It can be seen that the test of significance in relation to government policy is a question of degree and that a significant noise level will be somewhere above a level where the onset of adverse effect might be expected - i.e. SOAELs will always be greater in magnitude than LOAELs and LOAELs are greater than NOELs. In other words as exposure to a sound source increases there will start to be some level of effect on a receptor, and, as the exposure increases, the severity of the effect or effects increase with further increase in exposure to the level where the effect becomes significant.

It is also worth noting that the second aim of the NPSE refers to the situation where the impact lies somewhere between LOAEL and SOAEL. The aim is that "all reasonable steps

should be taken to mitigate and minimise adverse effects on health and quality of life while also taking into account the guiding principles of sustainable development. This does not mean that such adverse effects cannot occur.”

3.2 National Planning Practice Guidance – Noise (March 2014)

Noise needs to be considered when new developments would be sensitive to the prevailing acoustic environment. When determining impact, Local Authorities’ plan making and decision taking should account for the acoustic environment and in doing so consider:

- Whether or not a significant adverse effect is occurring or is likely to occur;
- Whether or not an adverse effect is occurring or is likely to occur; and
- Whether or not a good standard of amenity can be achieved

The subjective nature of noise means that there is not a simple relationship between noise levels and the impact of those affected. This will depend on how factors combine in any particular situation, including:

- The source and absolute level of the noise together with the time of day it occurs;
- For non-continuous sources of noise, the number of noise events, and the frequency and pattern of occurrence of the noise;
- The spectral content of the noise and its general character (whether the noise contains particular tonal characteristics or other particular features).

More specific factors to consider, when relevant, include:

- Where applicable, the cumulative effect of more than one noise source should be taken into account along with the extent to which the source of noise is intermittent and of limited duration;
- Consideration should also be given to whether adverse internal effects can be completely removed by closing windows and, in the case of new residential development, if the proposed mitigation relies on windows being kept closed most of the time. In both cases, a suitable alternative means of ventilation is likely to be necessary.

In respect of mitigating noise, the approach to be adopted will depend on the nature of the development and the character of the location. For noise sensitive developments measures can include designing the development to reduce the impact of the noise from the local environment and optimising the sound insulation provided by the building envelope.

Perception	Examples of Outcomes	Increasing Effect Level	Action
Not noticeable	No Effect	No Observed Effect	No specific measures required
Noticeable and not intrusive	Noise can be heard, but does not cause any change in behaviour or attitude. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life.	No Observed Adverse Effect	No specific measures required
		Lowest Observed Adverse Effect Level	
Noticeable and intrusive	Noise can be heard and causes small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
		Significant Observed Adverse Effect Level	
Noticeable and disruptive	The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Noticeable and very disruptive	Extensive and regular changes in behaviour and/or an inability to mitigate effect of noise leading to psychological stress or physiological effects, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory	Unacceptable Adverse Effect	Prevent

4.0 Guidance on the Assessment of Noise Levels

4.1 World Health Organisation

The World Health Organisation (WHO) document “Guidelines for Community Noise” provided a review of the effects of noise and a description of the principles of health criteria.

Table 1 of the document presents guideline values arranged according to specific environments and critical health effects. Noise indices to be adopted and the accompanying time base to be used for the assessment are also presented.

The guideline values consider all health effects for a specific environment. An adverse health effect refers to any temporary or long-term impairment of physical, psychological or social functioning associated with noise exposure. The specific noise limits were set for each health “using the lowest noise level that produces an adverse health effect”

Table 1: WHO Guideline values for community noise in specific environments

Specific environment	Critical health effect(s)	L_{Aeq} [dB]	Time base [hours]	L_{Amax} fast [dB]
Dwelling, indoors	Speech intelligibility & moderate annoyance daytime & evening	35	16	45
	Sleep disturbance, night time	30	8	

For noise events, the guideline value was set at 45 dB L_{Amax} , with research cited in the text advising that this value should not be exceeded by more than 10 to 15 times per night to ensure “good sleep”.

4.2 BS 8233:2014: “Guidance on sound insulation and noise reduction for buildings”

This British Standard came into effect on 28 February 2014 and supersedes BS 8233:1999, which is withdrawn.

The standard draws on the results of research and experience to provide information on the design of buildings that have internal acoustic environments appropriate to their functions. It deals with control of noise from outside the building, noise from plant and services within it, and room acoustics for non-critical situations. It is applicable to the design of new buildings, or refurbished buildings undergoing a change of use, but does not provide guidance on assessing the effects of changes in the external noise levels to occupants of an existing building.

4.2.1 Dwellings

Indoor ambient noise levels for dwellings are set out at Section 7.7.2, Table 4, reproduced below.

Table 2: Indoor ambient noise levels for dwellings (from BS 8233:2014, Table 4)

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living room	35 dB $L_{Aeq,16hour}$	—
Dining	Dining room/area	40 dB $L_{Aeq,16hour}$	—
Sleeping (daytime resting)	Bedroom	35 dB $L_{Aeq,16hour}$	30 dB $L_{Aeq,8hour}$

A series of notes provide context to the guideline values of Table 4. Note 1 advises that the indoor ambient noise levels are *“the sum total of structure-borne and airborne noise sources. Groundborne noise is assessed separately and is not included as part of these targets, as human response to groundborne noise varies with many factors such as level, character, timing, occupant expectation and sensitivity.”*

Note 3 states *“These levels are based on annual average data and do not have to be achieved in all circumstances. For example, it is normal to exclude occasional events, such as fireworks night or New Year’s Eve.”*

Note 4 deals with individual events and advises that *“Regular individual noise events (for example, scheduled aircraft or passing trains) can cause sleep disturbance. A guideline value may be set in terms of SEL or $L_{Amax,F}$, depending on the character and number of events per night. Sporadic noise events could require separate values”*.

Note 5 states that if relying on closed windows to meet the guide values, there needs to be an appropriate alternative ventilation arrangement that does not compromise the façade insulation or the resulting noise level.

Note 7 provides a rider to the guideline values of Table 4, *“Where development is considered necessary or desirable, despite external noise levels above WHO guidelines, the internal target levels may be relaxed by up to 5 dB and reasonable internal conditions still achieved”*.

5.0 Design Intent

The following indoor ambient noise levels are proposed for the development:

Table 3: Proposed indoor ambient noise levels for dwellings

Indoor ambient noise level living areas 07:00 to 23:00: 35 dB $L_{pAeq,16h}$
Indoor ambient noise level for bedrooms 23:00 to 07:00: 30 dB $L_{pAeq,8h}$
Indoor ambient noise level for bedrooms 23:00 to 07:00: 45 dB L_{Amax}^*

* In the absence of documented guidance of the measurement assessment for 45 dB L_{Amax} this practice has used the level exceeded 10 times per night (see section 4.1) based on the sample measurements taken during the survey and values 125 Hz to 4KHz (BS8233:2014 Table G.1 gives the data used in calculation of the noise inside a room as 125Hz to 2KHz frequency), therefore the assessment undertaken by this practice has extended the higher frequency range by an octave. In respect of 45 dB L_{Amax} , transient noise, it should be noted that it is standard design practice to adopt a typical maximum noise level and not the absolute worst-case.

Adoption of the above design limits would not provide absolute control of transient noise sources such as police sirens, etc., which may occasionally occur however, the final building design should nevertheless minimise any resultant disturbance due to external noise.

The suggested design targets apply when windows are closed and background ventilation is provided. When windows are opened, an increase in internal noise levels is inevitable and it is not reasonable¹ to expect the target levels above to be achieved. As noted in the

¹ Proposals for amending Part E (resistance to the passage of sound): consultation, Clause C1.5

previous section, the targets are based on annual average data and do not have to be achieved in all circumstances.

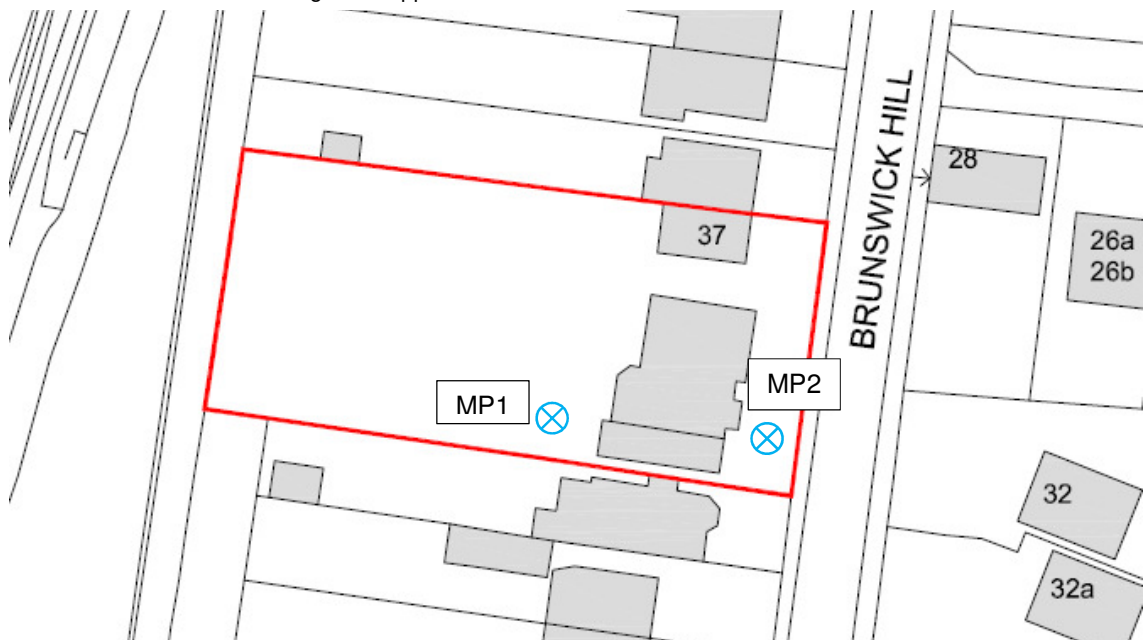
6.0 Environmental Noise Surveys

6.1 Environmental Noise

Detailed noise surveys have been carried out at site to determine the extant noise climate in the area. Measurements were made between 21st and 23rd November 2017, at the locations described below.

- **MP1:** Rear of site (west of 39 Brunswick Hill), approximately 5m to the west of the existing property (quasi-continuous, all sources);
- **MP2:** Front of site, approximately 4m to the east of the existing property (quasi-continuous, all sources);

Figure 2: Approximate Measurement Positions



Sound pressure level measurements were obtained using the following instrumentation, complying with the Type 1 specification of BS EN 60804, BS EN 60651, BS EN 60942, BS EN 61260, and BS EN 61672-1, as follows:

- **Position MP1:** SVAN 971 Sound level meter serial number 56213, pre-amplifier type SV18 serial number 57308, and type 7052E ½" microphone serial number 65483.
- **Position MP2:** Norsonic NOR118 Real Time Analyser (s/n 31663); Norsonic NOR1225 Microphone (s/n 62576); Norsonic NOR1206 Pre-amplifier (s/n 30642); Norsonic NOR1251 Calibrator (s/n 31651).

Preamplifiers and microphones were mounted remotely from the main sound level analysers by means of meter booms and extension cables.

Calibration checks were made prior to and after completion of measurements using a SVAN SV33A acoustical calibrator complying with Class 1 of BS EN 60942, calibration level $114.0 \text{ dB} \pm 0.3 \text{ dB}$, @ 1.0 kHz.

All instrumentation carries a current manufacturer's certificate of conformance a copy of which is available upon request

Various statistical broad-band and spectral sound pressure level measurements were obtained during the survey, including:

- $L_{Aeq,T}$: the equivalent continuous noise level over a measurement period, T
- L_{AFmax} : the maximum sound pressure level over a measurement period, T
- $L_{AF90\%,T}$: the noise level exceeded for 90% of the measurement period, T

Weather conditions at the start of the survey were mild and dry with a slight breeze. At the end of the survey the weather conditions were similar. It is known that precipitation occurred in the local area on the second night of the survey. As the survey was generally unmanned, full weather conditions during the survey cannot be reported accurately, however, the survey duration was considered of appropriate time to allow a reasonable representation of the noise climate to be established.

7.0 Results and Data Analysis

7.1 Environmental Noise Survey Results

Measurement results have been processed to determine day and night L_{Aeq} values, together with the typical night maximum noise levels.

Table 4: Summary of Environmental Noise Levels

Measurement Position	Day $L_{Aeq,16h}$	Night $L_{Aeq,8h}$	L_{AFmax} 10 th Highest
MP1	55 dB	51 dB	68 dB
MP2	55 dB	49 dB	68 dB

Note: During night time 2 period, precipitation occurred at times that was likely to be significant. As a result, night time period 1 readings have been used for the assessment of night time noise levels.

Figure 3: MP1 - Environmental Noise Time Series
Sound levels measured over survey period

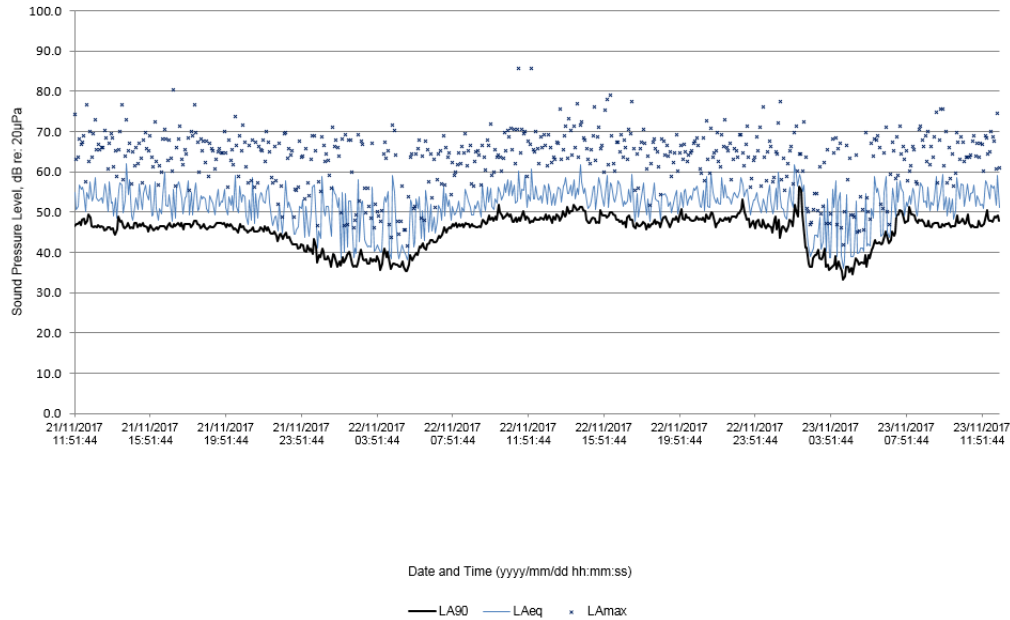
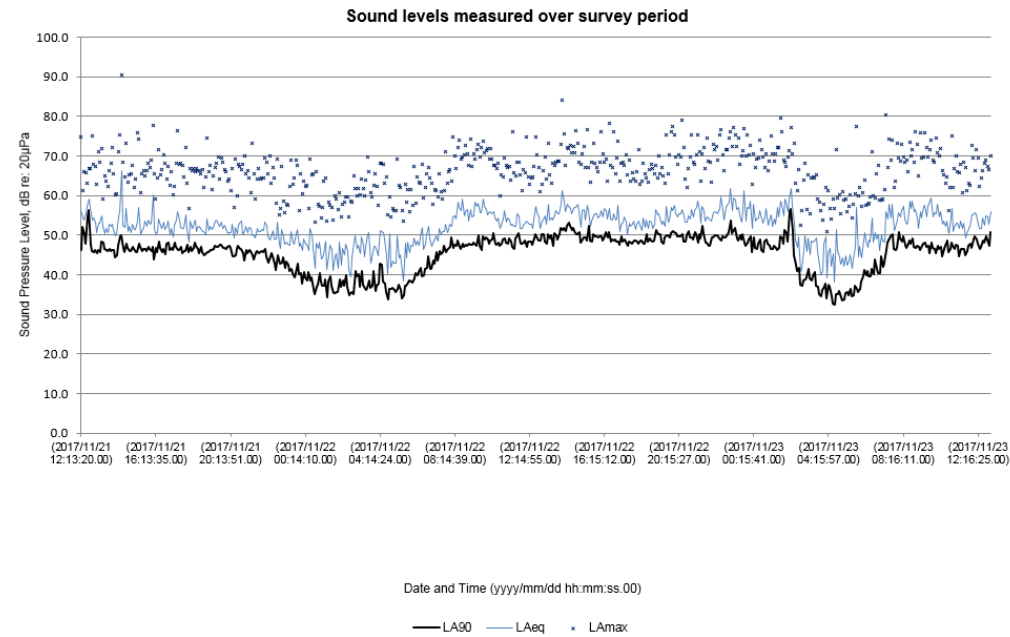


Figure 4: MP2 - Environmental Noise Time Series



7.2 With-scheme Noise Levels

To determine noise levels across the application site attributable to ground based transportation sources (road and rail), a detailed three dimensional computer model of the locality has been constructed using CadnaA software, which implements the procedures contained in a number of pertinent documents including Calculation of Road Traffic Noise (CRTN), Calculation of Railway Noise (CRN) and ISO 9613-2: Acoustics to Abatement of sound propagation outdoors, Part 2: General method of calculation, etc..

The measurement data obtained during the surveys has been input to the model to assess how ground based transport noise will propagate across the proposed scheme.

Building evaluation has been subsequently been undertaken to determine day and night L_{Aeq} noise levels on a facade-by-facade basis, Figures 5 and 6 below refer accordingly. For brevity, noise levels illustrated are the worst case and thus are independent of storey height.

Maximum noise levels at each facade have been determined by pro-rata correction based on the difference between typical night L_{AFmax} and L_{Aeq} values, as the procedures given in CRTN and CRN do not extend to prediction of maximum noise levels.

Figure 5: With-scheme Façade $L_{Aeq,16h}$ Noise Levels day

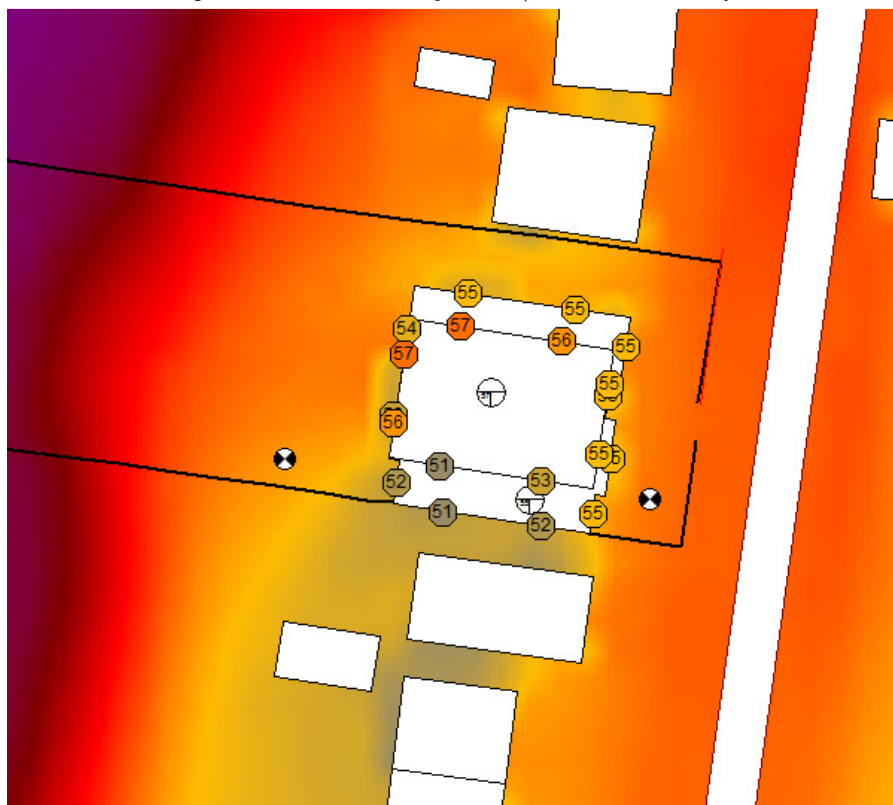
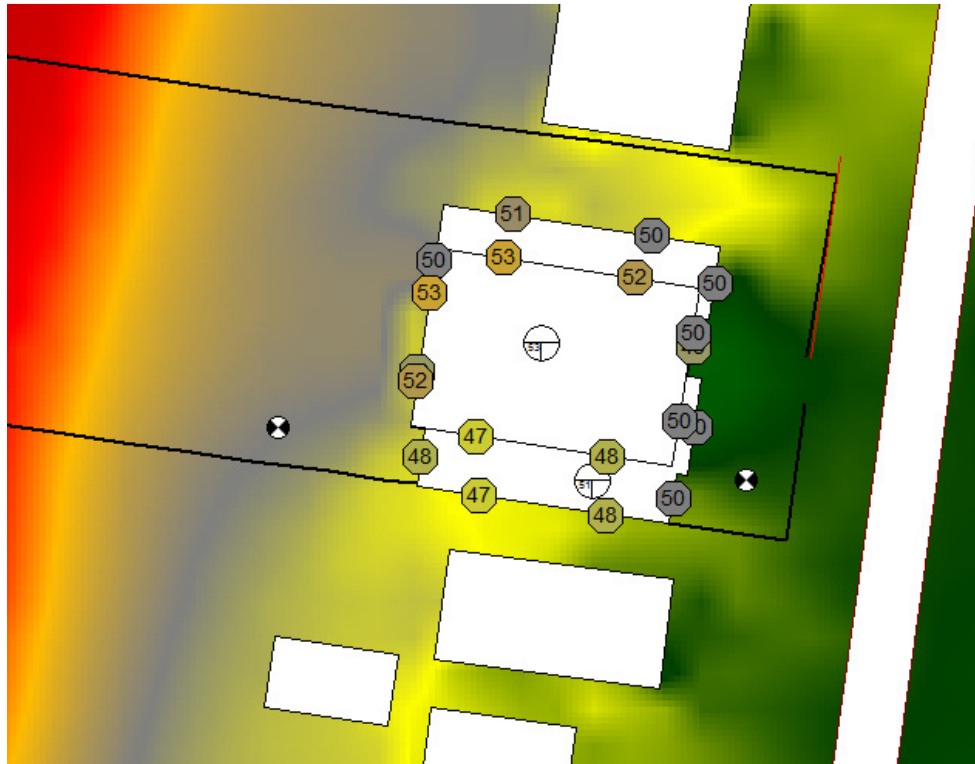


Figure 6: With-scheme Façade $L_{Aeq,8h}$ Noise Levels night



8.0 Facade Sound Insulation

The overall building envelope sound insulation requirements may be quantified using appropriate single figure quantities such as those described below.

Table 5: Sound Insulation Descriptors

Quantity	Definition	Description
R	Sound reduction index	The sound reduction index R is a property of the building element, independent of its surface area and absorption within the receiving room. R is obtained from the results of Laboratory tests
R_w	Weighted sound reduction index	Single figure sound insulation value derived from the measured sound reduction index R .
C ; C_{tr}	Spectrum adaptation terms 1 and 2. Used with single figure ratings as defined by ISO 717-1:1996	C - calculated with spectrum No. 1 (A-weighted pink noise); C_{tr} - calculated with spectrum No. 2 (A-weighted urban traffic noise).

8.1 Outline Building Envelope Sound Insulation Performance

To determine the sound insulation requirements of the constituent facade elements detailed calculations to BS EN 12354-3 (or alternatively as per BS 8233:2014) will be need to be undertaken at an appropriate stage of the project. However, to demonstrate that external noise ingress may be adequately attenuated, the overall facade sound

insulation requirement has been determined using single figure quantities, in this case $R_w + C_{tr}$ has been used where R_w is the Weighted Sound Reduction Index and C_{tr} is the spectrum adaptation term.

Based on the total site noise levels illustrated by Figures 5 and 6 above, the outline facade sound insulation performance for the scheme are given in Table 6.

The following facade sound insulation requirements are therefore presented on the basis that living and bedroom spaces may be exposed to noise incident on any of the building facades:

Table 6: Outline Façade Sound Insulation Requirement

Building Elevation	Space	Design intent		Predicted Noise exposure (worst case figures on façade used)		Target** $R_w + C_{tr}$
		$L_{Aeq,T}$	L_{AFmax}	$L_{Aeq,T}$	L_{AFmax}	
North	Living room	35	-	55 dB	-	20 dB
	Bedroom	30	45	53 dB	69 dB	24 dB
East	Living room	35	-	55 dB	-	20 dB
	Bedroom	30	45	50 dB	66 dB	21 dB
South	Living room	35	-	55 dB	-	20 dB
	Bedroom	30	45	48 dB	64 dB	19 dB
West	Living room	35	-	57 dB	-	22 dB
	Bedroom	30	45	53 dB	69 dB	24 dB

Notes:

Day time reference time interval T = 16 hours (07:00 to 23:00)

Night time reference time interval T = 8 hours (23:00 to 07:00)

Examination of Table 6 shows a worst case facade sound insulation requirement of $R_w + C_{tr} = 24$ dB. Acoustic performances can in theory be easily maintained by suitably selected building constructions of the walls, roof, ventilation products and glazing systems. Experience of comparable projects has shown that the required $R_w + C_{tr}$ values identified in Table 6 are easily achievable for glazed elements.

9.0 Uncertainty

Acoustic surveys are subject to a relatively small degree of uncertainty, as there is always the potential for vehicular movements to vary slightly, together with the other noise sources that contribute to the noise levels obtained. There are also numerous tolerance associated with the sound data used, such as sound reduction performances for structures that can be influenced by not only the build quality but also the uncertainty associated with acoustic testing of the product. Whilst this practice will follow due process and use the noise data at face value, it is advised that in practice the prediction of noise levels may be subject to a tolerance of +/- 3dB, and possibly greater under certain circumstances.

10.0 Conclusions

The results of environmental noise surveys have been used as the basis of assessment of noise impinging on the facades of the proposed development at a parcel of land at 39 Brunswick Hill, Reading, Berkshire.

Appropriate internal noise limits have been discussed based on various sources of guidance and internal noise criteria have been proposed.

Based on the results of 3D modelling, the single figure facade sound insulation requirements have been specified for careful consideration by the developer when selecting building envelope elements such as the acoustically rated glazing, cladding, masonry, roof structure and ventilation products. It is predicted that on achievement of the outline facade sound insulation requirement given in Table 6, reasonable indoor ambient noise levels will be achieved.

Project: 39 Brunswick Hill, Reading
Client: EB Solutions Ltd

Date: 10/12/2017
Reference: 4122_ENA/001

Appendix A: Measurement Data

MP1

1st day	LAF(max)	Lavg	LA10	LA90	1st day	LAF(max)	Lavg	LA10	LA90	1st day	LAF(max)	Lavg	LA10	LA90
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:01:44	61.5	51.5	54.1	47.2	21/11/2017 23:01:44	69.7	57.9	60.7	45.0
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:06:44	66.0	53.6	55.9	47.3	21/11/2017 23:06:44	63.4	51.2	54.7	43.5
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:11:44	62.1	50.5	52.8	46.2	21/11/2017 23:11:44	65.8	52.6	54.8	43.8
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:16:44	67.1	57.1	62.5	47.1	21/11/2017 23:16:44	64.1	50.7	52.8	43.1
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:21:44	63.3	52.4	54.5	46.5	21/11/2017 23:21:44	65.2	49.9	48.3	42.0
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:26:44	57.3	50.6	53.0	47.3	21/11/2017 23:26:44	48.7	44.4	46.5	42.1
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:31:44	67.9	54.6	56.7	46.6	21/11/2017 23:31:44	55.8	44.6	46.7	41.9
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:36:44	69.7	56.7	62.7	46.4	21/11/2017 23:36:44	55.5	45.5	47.5	42.1
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:41:44	65.7	54.5	59.2	46.2	21/11/2017 23:41:44	56.2	46.4	50.2	40.9
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00:00	0.0	0.0	0.0	0.0	21/11/2017 15:51:44	69.0	56.8	61.0	46.7	21/11/2017 23:51:44	63.6	50.8	54.2	42.0
00:00	0.0	0.0	0.0	0.0	21/11/2017 15:56:44	63.6	49.1	51.0	46.1	21/11/2017 23:56:44	64.0	53.0	58.5	41.7
00:00	0.0	0.0	0.0	0.0	21/11/2017 16:01:44	61.2	49.2	49.9	45.5	22/11/2017 00:01:44	53.2	43.7	45.8	40.4
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00:00	0.0	0.0	0.0	0.0	21/11/2017 16:41:44	68.3	51.7	55.0	45.7	22/11/2017 00:41:44	46.6	40.9	43.6	37.4
00:00	0.0	0.0	0.0	0.0	21/11/2017 16:46:44	62.9	51.4	53.6	46.5	22/11/2017 00:46:44	57.5	45.3	48.5	39.2
00:00	0.0	0.0	0.0	0.0	21/11/2017 16:51:44	67.2	54.4	56.6	47.3	22/11/2017 00:51:44	59.2	47.5	47.7	38.4
00:00	0.0	0.0	0.0	0.0	21/11/2017 16:56:44	63.3	50.0	52.4	46.6	22/11/2017 00:56:44	68.8	58.8	65.6	40.8
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:01:44	60.3	47.7	48.7	46.2	22/11/2017 01:01:44	66.6	50.4	47.3	40.0
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:06:44	80.4	55.6	57.7	47.0	22/11/2017 01:06:44	62.5	49.1	55.0	38.3
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:11:44	56.5	48.5	50.0	46.6	22/11/2017 01:11:44	64.5	51.3	56.7	38.2
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:16:44	66.0	56.0	60.8	47.0	22/11/2017 01:16:44	63.0	51.4	56.5	39.0
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:21:44	58.1	57.6	63.0	47.3	22/11/2017 01:21:44	59.0	48.5	55.3	37.6
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:26:44	71.2	56.5	59.2	46.6	22/11/2017 01:26:44	55.9	43.8	43.8	36.4
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:31:44	63.2	53.1	57.7	47.3	22/11/2017 01:31:44	71.1	56.4	57.4	39.6
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:36:44	61.7	49.4	51.1	45.7	22/11/2017 01:36:44	66.2	54.6	60.2	39.4
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:41:44	65.4	53.5	56.3	47.0	22/11/2017 01:41:44	67.9	54.3	54.6	37.4
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:46:44	64.5	53.8	54.5	46.5	22/11/2017 01:46:44	66.2	51.4	50.5	36.5
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:51:44	68.4	57.8	63.7	47.1	22/11/2017 01:51:44	63.9	53.6	60.4	37.7
00:00	0.0	0.0	0.0	0.0	21/11/2017 17:56:44	55.5	49.3	51.5	47.0	22/11/2017 01:56:44	49.8	38.7	40.4	36.6
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:01:44	70.0	54.8	56.2	46.3	22/11/2017 02:01:44	68.1	54.9	60.7	38.8
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:06:44	68.8	49.2	50.7	47.0	22/11/2017 02:06:44	46.6	40.0	41.9	37.4
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:11:44	76.6	55.4	60.0	47.8	22/11/2017 02:11:44	69.2	54.5	59.3	38.6
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:16:44	69.7	57.2	61.2	47.7	22/11/2017 02:16:44	47.0	41.2	43.1	39.2
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:21:44	67.3	50.4	52.5	47.1	22/11/2017 02:21:44	67.8	52.8	53.7	40.1
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:26:44	59.9	50.8	53.2	46.8	22/11/2017 02:26:44	68.0	52.8	58.0	39.2
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:31:44	68.2	54.1	52.6	46.0	22/11/2017 02:31:44	59.9	48.2	54.4	36.9
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:36:44	65.3	53.3	56.0	46.4	22/11/2017 02:36:44	46.0	38.7	40.7	36.3
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:41:44	67.7	53.9	54.1	46.9	22/11/2017 02:41:44	48.0	41.0	43.7	36.7
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:46:44	63.1	54.1	58.6	46.3	22/11/2017 02:46:44	63.9	59.8	63.0	36.7
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:51:44	67.6	51.0	48.9	45.6	22/11/2017 02:51:44	69.2	57.9	63.5	37.2
00:00	0.0	0.0	0.0	0.0	21/11/2017 18:56:44	59.0	49.9	54.3	45.9	22/11/2017 02:56:44	52.8	42.7	44.7	39.6
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:01:44	67.0	54.2	56.6	46.6	22/11/2017 03:01:44	67.7	52.3	46.7	40.7
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:06:44	65.8	52.8	54.9	46.2	22/11/2017 03:06:44	66.9	52.8	48.0	38.3
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:11:44	62.8	52.3	53.8	46.3	22/11/2017 03:11:44	50.3	43.8	41.3	37.1
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:16:44	60.8	49.4	50.7	46.4	22/11/2017 03:16:44	49.8	42.3	44.7	38.3
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:21:44	63.2	52.6	57.1	47.2	22/11/2017 03:21:44	55.8	41.3	43.2	37.3
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:26:44	64.9	55.6	60.6	47.3	22/11/2017 03:26:44	51.5	41.7	44.7	37.3
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:31:44	65.7	51.4	54.8	47.4	22/11/2017 03:31:44	48.5	41.3	43.5	38.4
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:36:44	64.7	52.8	54.1	47.3	22/11/2017 03:36:44	67.0	56.1	61.6	37.7
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:41:44	61.5	54.8	54.5	46.3	22/11/2017 03:41:44	60.3	49.7	50.7	38.2
00:00	0.0	0.0	0.0	0.0	21/11/2017 19:46:44	69.9	55.6	58.4	47.2	22/11/2017 03:46:44	51.9	40.4	42.4	37.7
21/11/2017 11:51:44	74.3	54.9	56.6	46.5	21/11/2017 19:51:44	64.7	51.1	52.3	46.3	22/11/2017 03:51:44	50.1	41.9	43.8	39.1
21/11/2017 11:56:44	63.1	50.6	52.9	47.1	21/11/2017 19:56:44	56.1	49.4	51.5	46.9	22/11/2017 03:56:44	49.0	41.0	43.7	37.6
21/11/2017 12:01:44	63.6	51.5	53.5	47.0	21/11/2017 20:01:44	67.9	53.8	55.7	46.4	22/11/2017 04:01:44	47.7	40.1	42.7	35.7
21/11/2017 12:06:44	68.1	56.8	60.0	47.5	21/11/2017 20:06:44	62.8	51.7	55.5	47.1	22/11/2017 04:06:44	50.3	40.3	42.8	37.1
21/11/2017 12:11:44	66.9	55.5	61.1	46.7	21/11/2017 20:11:44	65.5	54.0	57.7	46.3	22/11/2017 04:11:44	64.5	52.3	56.2	39.8
21/11/2017 12:16:44	67.3	56.1	61.0	48.2	21/11/2017 20:16:44	61.8	50.3	51.9	45.8	22/11/2017 04:16:44	67.5	53.8	59.6	40.8
21/11/2017 12:21:44	68.9	55.1	57.6	48.3	21/11/2017 20:21:44	73.7	59.1	64.1	45.9	22/11/2017 04:21:44	63.4	52.5	57.6	38.7
21/11/2017 12:26:44	57.5	50.1	52.7	47.0	21/11/2017 20:26:44	66.6	51.4	49.7	45.3	22/11/2017 04:26:44	65.2	55.1	61.4	40.2
21/11/2017 12:31:44	76.6	54.8	57.1	47.9	21/11/2017 20:31:44	59.0	49.9	53.5	45.0	22/11/2017 04:31:44	46.8	40.1	41.9	37.3
21/11/2017 12:36:44	62.6	53.2	56.7	49.4	21/11/2017 20:36:44	68.9	56.4	59.5	47.1	22/11/2017 04:36:44	43.8	38.4	40.5	35.8
21/11/2017 12:41:44	70.0	57.5	61.9	48.5	21/11/2017 20:41:44	65.3	52.4	54.2	46.1	22/11/2017 04:41:44	71.5	59.2	65.4	37.3
21/11/2017 12:46:44	63.6	52.8	57.8	46.4	21/11/2017 20:46:44	71.5	54.4	57.8	46.6	22/11/2017 04:46:44	70.3	54.7	56.0	37.1
21/11/2017 12:51:44	69.5	53.6	55.2	46.3	21/11/2017 20:51:44	67.4	53.9	57.2	45.6	22/11/2017 04:51:44	64.2	48.9	49.6	36.8
21/11/2017 12:56:44	72.9	5												

Project: 39 Brunswick Hill, Reading
Client: EB Solutions Ltd

Date: 10/12/2017
Reference: 4122_ENA/001

2nd day	LAF(max)	LAFeq	LASD	LARD
20/11/2017 07:00:44	42.9	37.7	40.9	42.8
20/11/2017 07:05:44	44.3	31.7	34.8	40.0
20/11/2017 07:10:44	45.2	32.6	32.2	43.6
20/11/2017 07:15:44	36.5	47.9	49.6	48.4
20/11/2017 07:20:44	48.0	56.3	52.0	49.2
20/11/2017 07:25:44	36.6	48.1	51.6	46.2
20/11/2017 07:30:44	46.0	54.6	48.1	49.0
20/11/2017 07:35:44	43.6	51.3	51.5	45.8
20/11/2017 07:40:44	44.7	53.1	56.6	46.1
20/11/2017 07:45:44	54.5	48.0	48.0	46.0
20/11/2017 07:50:44	42.2	51.4	54.6	47.0
20/11/2017 07:55:44	39.2	49.3	48.9	46.5
20/11/2017 08:00:44	39.9	49.5	48.0	47.2
20/11/2017 08:05:44	41.0	51.1	52.2	46.1
20/11/2017 08:10:44	44.6	52.7	56.2	47.1
20/11/2017 08:15:44	42.1	48.5	50.0	46.5
20/11/2017 08:20:44	46.2	51.2	53.6	48.9
20/11/2017 08:25:44	44.6	49.0	51.8	46.3
20/11/2017 08:30:44	38.5	53.8	54.5	47.2
20/11/2017 08:35:44	45.4	53.8	57.4	47.1
20/11/2017 08:40:44	46.2	52.8	53.2	47.1
20/11/2017 08:45:44	39.5	49.3	50.8	47.1
20/11/2017 08:50:44	52.4	50.2	51.1	46.5
20/11/2017 08:55:44	42.5	51.7	55.7	46.4
20/11/2017 09:00:44	45.1	50.9	50.1	46.1
20/11/2017 09:05:44	45.1	52.7	56.1	46.2
20/11/2017 09:10:44	44.0	51.5	53.2	46.4
20/11/2017 09:15:44	36.8	48.6	50.2	46.2
20/11/2017 09:20:44	45.5	49.6	52.4	46.1
20/11/2017 09:25:44	43.7	51.7	53.6	47.1
20/11/2017 09:30:44	38.6	50.5	50.2	47.0
20/11/2017 09:35:44	46.4	52.4	54.0	48.1
20/11/2017 09:40:44	43.9	54.2	56.8	47.0
20/11/2017 09:45:44	39.2	51.3	53.2	46.5
20/11/2017 09:50:44	40.0	50.0	52.6	47.2
20/11/2017 09:55:44	40.6	52.2	56.0	46.2
20/11/2017 10:00:44	41.6	54.8	57.6	46.9
20/11/2017 10:05:44	41.6	54.8	57.6	46.9
20/11/2017 10:10:44	40.1	51.5	54.6	46.2
20/11/2017 10:15:44	43.1	54.2	58.5	46.2
20/11/2017 10:20:44	40.8	49.5	50.6	46.8
20/11/2017 10:25:44	40.2	54.9	58.4	46.2
20/11/2017 10:30:44	39.1	50.8	55.4	46.2
20/11/2017 10:35:44	48.7	54.2	55.1	46.9
20/11/2017 10:40:44	40.6	54.1	56.5	47.6
20/11/2017 10:45:44	39.4	56.7	59.1	47.6
20/11/2017 10:50:44	45.1	57.0	59.2	48.1
20/11/2017 10:55:44	36.6	52.8	54.8	47.1
20/11/2017 11:00:44	40.6	50.1	56.5	46.9
20/11/2017 11:05:44	44.7	53.3	57.2	47.6
20/11/2017 11:10:44	36.6	55.6	60.5	46.3
20/11/2017 11:15:44	40.6	55.4	58.0	50.3
20/11/2017 11:20:44	40.9	59.1	63.8	49.0
20/11/2017 11:25:44	47.2	54.2	55.2	48.5
20/11/2017 11:30:44	46.8	52.7	52.8	47.2
20/11/2017 11:35:44	45.5	51.1	55.5	47.6
20/11/2017 11:40:44	44.6	53.1	56.5	46.2
20/11/2017 11:45:44	45.9	51.4	55.5	48.7
20/11/2017 11:50:44	45.9	50.1	53.2	46.5
20/11/2017 11:55:44	45.9	50.1	53.2	46.5
20/11/2017 12:00:44	45.9	50.1	53.2	46.5
20/11/2017 12:05:44	45.9	50.1	53.2	46.5
20/11/2017 12:10:44	45.9	50.1	53.2	46.5
20/11/2017 12:15:44	45.9	50.1	53.2	46.5
20/11/2017 12:20:44	45.9	50.1	53.2	46.5
20/11/2017 12:25:44	45.9	50.1	53.2	46.5
20/11/2017 12:30:44	45.9	50.1	53.2	46.5
20/11/2017 12:35:44	45.9	50.1	53.2	46.5
20/11/2017 12:40:44	45.9	50.1	53.2	46.5
20/11/2017 12:45:44	45.9	50.1	53.2	46.5
20/11/2017 12:50:44	45.9	50.1	53.2	46.5
20/11/2017 12:55:44	45.9	50.1	53.2	46.5
20/11/2017 13:00:44	45.9	50.1	53.2	46.5
20/11/2017 13:05:44	45.9	50.1	53.2	46.5
20/11/2017 13:10:44	45.9	50.1	53.2	46.5
20/11/2017 13:15:44	45.9	50.1	53.2	46.5
20/11/2017 13:20:44	45.9	50.1	53.2	46.5
20/11/2017 13:25:44	45.9	50.1	53.2	46.5
20/11/2017 13:30:44	45.9	50.1	53.2	46.5
20/11/2017 13:35:44	45.9	50.1	53.2	46.5
20/11/2017 13:40:44	45.9	50.1	53.2	46.5
20/11/2017 13:45:44	45.9	50.1	53.2	46.5
20/11/2017 13:50:44	45.9	50.1	53.2	46.5
20/11/2017 13:55:44	45.9	50.1	53.2	46.5
20/11/2017 14:00:44	45.9	50.1	53.2	46.5
20/11/2017 14:05:44	45.9	50.1	53.2	46.5
20/11/2017 14:10:44	45.9	50.1	53.2	46.5
20/11/2017 14:15:44	45.9	50.1	53.2	46.5
20/11/2017 14:20:44	45.9	50.1	53.2	46.5
20/11/2017 14:25:44	45.9	50.1	53.2	46.5
20/11/2017 14:30:44	45.9	50.1	53.2	46.5
20/11/2017 14:35:44	45.9	50.1	53.2	46.5
20/11/2017 14:40:44	45.9	50.1	53.2	46.5
20/11/2017 14:45:44	45.9	50.1	53.2	46.5
20/11/2017 14:50:44	45.9	50.1	53.2	46.5
20/11/2017 14:55:44	45.9	50.1	53.2	46.5
20/11/2017 15:00:44	45.9	50.1	53.2	46.5

2nd day	LAF(max)	LAFeq	LASD	LARD
20/11/2017 15:05:44	45.9	50.1	53.2	47.3
20/11/2017 15:10:44	42.1	51.8	54.4	47.4
20/11/2017 15:15:44	45.6	52.6	54.4	48.3
20/11/2017 15:20:44	48.5	53.5	55.5	48.7
20/11/2017 15:25:44	46.2	56.5	58.3	48.4
20/11/2017 15:30:44	42.8	50.5	52.5	47.4
20/11/2017 15:35:44	48.7	55.1	56.0	47.6
20/11/2017 15:40:44	71.1	58.6	62.8	47.2
20/11/2017 15:45:44	41.8	51.1	52.4	46.1
20/11/2017 15:50:44	66.5	54.0	56.2	49.2
20/11/2017 15:55:44	60.0	51.4	53.0	48.5
20/11/2017 16:00:44	75.2	54.5	54.1	49.1
20/11/2017 16:05:44	78.0	59.0	62.3	48.5
20/11/2017 16:10:44	61.8	51.1	52.4	46.1
20/11/2017 16:15:44	70.0	57.2	59.2	50.0
20/11/2017 16:20:44	48.9	56.8	59.8	50.0
20/11/2017 16:25:44	62.0	53.3	56.1	49.3
20/11/2017 16:30:44	60.1	52.4	54.4	49.2
20/11/2017 16:35:44	47.4	54.9	56.0	48.2
20/11/2017 16:40:44	47.3	47.8	49.0	48.2
20/11/2017 16:45:44	64.9	56.7	60.1	47.6
20/11/2017 16:50:44	67.4	53.9	55.6	46.0
20/11/2017 16:55:44	63.7	51.4	53.7	47.0
20/11/2017 17:00:44	47.8	52.8	54.8	47.6
20/11/2017 17:05:44	44.5	51.9	52.4	46.2
20/11/2017 17:10:44	63.0	52.8	54.8	48.5
20/11/2017 17:15:44	49.6	53.5	55.8	48.2
20/11/2017 17:20:44	69.6	52.5	53.8	48.2
20/11/2017 17:25:44	72.3	59.3	63.2	48.2
20/11/2017 17:30:44	65.0	52.0	52.5	46.5
20/11/2017 17:35:44	55.4	47.7	48.8	46.0
20/11/2017 17:40:44	44.4	54.6	58.1	47.2
20/11/2017 17:45:44	50.6	53.5	56.2	46.8
20/11/2017 17:50:44	46.3	52.9	53.5	47.6
20/11/2017 17:55:44	57.4	53.4	55.6	47.0
20/11/2017 18:00:44	49.7	45.7	46.6	47.1
20/11/2017 18:05:44	72.4	50.0	63.4	50.4
20/11/2017 18:10:44	44.4	56.4	56.1	46.5
20/11/2017 18:15:44	58.1	59.3	63.6	50.2
20/11/2017 18:20:44	44.4	56.4	56.1	46.5
20/11/2017 18:25:44	49.2	50.0	58.3	46.9
20/11/2017 18:30:44	72.5	56.7	56.5	44.1
20/11/2017 18:35:44	41.6	47.8	47.7	41.1
20/11/2017 18:40:44	45.8	63.2	55.8	47.1
20/11/2017 18:45:44	44.1	46.2	46.1	46.1
20/11/2017 18:50:44	41.1	50.2	57.8	47.2
20/11/2017 18:55:44	54.4	47.9	49.0	46.3
20/11/2017 19:00:44	48.1	54.5	56.4	48.2
20/11/2017 19:05:44	47.5	54.4	54.8	46.8
20/11/2017 19:10:44	44.2	54.6	58.5	48.0
20/11/2017 19:15:44	46.5	53.6	56.1	48.9
20/11/2017 19:20:44	43.8	51.4	53.0	47.1
20/11/2017 19:25:44	58.8	49.8	51.3	47.5
20/11/2017 19:30:44	42.4	52.3	55.2	48.3
20/11/2017 19:35:44	44.6	53.6	56.6	48.1
20/11/2017 19:40:44	49.3	55.3	56.3	49.0
20/11/2017 19:45:44	44.8	58.5	59.0	47.8
20/11/2017 19:50:44	45.8	53.3	54.2	48.8
20/11/2017 19:55:44	46.6	54.9	57.5	50.7
20/11/2017 20:00:44	43.1	51.2	52.4	48.3
20/11/2017 20:05:44	46.8	55.1	59.3	48.0
20/11/2017 20:10:44	44.0	55.8	59.7	48.6
20/11/2017 20:15:44	45.6	51.8	53.4	48.7
20/11/2017 20:20:44	44.2	52.9	55.0	48.6
20/11/2017 20:25:44	44.7	54.0	56.1	48.1
20/11/2017 20:30:44	45.2	53.1	55.2	47.9
20/11/2017 20:35:44	47.2	55.8	59.0	47.7
20/11/2017 20:40:44	47.7	55.5	57.7	48.1
20/11/2017 20:45:44	48.3	56.4	60.0	49.0
20/11/2017 20:50:44	46.5	54.6	59.3	48.1
20/11/2017 20:55:44	46.6	51.4	53.6	48.4
20/11/2017 21:00:44	39.7	51.2	53.0	48.1
20/11/2017 21:05:44	48.5	55.5	59.0	48.5
20/11/2017 21:10:44	57.7	50.3	52.6	47.6
20/11/2017 21:15:44	72.7	50.0	61.8	48.4
20/11/2017 21:20:44	43.2	51.5	53.1	48.1
20/11/2017 21:25:44	50.6	51.1	53.8	48.3
20/11/2017 21:30:44	70.9	58.6	65.6	48.9
20/11/2017 21:35:44	43.5	54.8	59.0	49.0
20/11/2017 21:40:44	44.6	53.6	56.6	47.5
20/11/2017 21:45:44	45.1	52.2	54.0	46.2
20/11/2017 21:50:44	46.7	53.6	52.0	47.1
20/11/2017 21:55:44	41.6	56.7	56.3	47.8
20/11/2017 22:00:44	45.0	51.6	56.0	47.7
20/11/2017 22:05:44	47.2	53.1	55.4	47.5
20/11/2017 22:10:44	58.0	51.9	54.2	48.0
20/11/2017 22:15:44	63.2	54.2	57.4	48.0
20/11/2017 22:20:44	45.8	54.9	58.7	48.0
20/11/2017 22:25:44	45.2	53.7	57.5	48.6
20/11/2017 22:30:44	43.6	53.6	56.6	48.6

2nd day	LAF(max)	LAeq	LASD	LARD
20/11/2017 22:01:44	48.1	55.3	56.6	49.6
20/11/2017 22:06:44	49.2	56.3	57.6	50.6
20/11/2017 22:11:44	46.4	56.7	58.1	53.1
20/11/2017 22:16:44	45.4	53.8	56.6	50.6
20/11/2017 22:21:44	45.4	53.8	56.6	50.6
20/11/2017 22:26:44	47.3	55.6	58.1	48.7
20/11/2017 22:31:44	46.4	55.6	58.1	48.7
20/11/2017 22:36:44	56.2	49.4	53.6	46.1
20/11/2017 22:41:44	52.8	50.0	53.4	47.6
20/11/2017 22:46:44	52.8	50.0	53.4	47.6
20/11/2017 22:51:44	62.7	52.9	56.1	45.9
20/11/2017 22:56:44	52.8	50.0	53.4	47.6
20/11/2017 23:01:44	51.1	52.8	55.1	48.0
20/11/2017 23:06:44	71.3	52.0	52.8	46.6
20/11/2017 23:11:44	65.6	53.7	57.2	48.1
20/11/2017 23:16:44	76.1	53.4	57.2	48.1
20/11/2017 23:21:44	65.6	53.7	57.2	48.1
20/11/2017 23:26:44	65.6	53.7	57.2	48.1
20/11/2017 23:31:44	65.6	53.7	57.2	48.1
20/11/2017 23:36:44	65.6	53.7	57.2	48.1
20/11/2017 23:41:44	65.6	53.7	57.2	48.1
20/11/2017 23:46:44	65.6	53.7	57.2	48.1
20/11/2017 23:51:44	65.6	53.7	57.2	48.1
20/11/2017 23:56:44	65.6	53.7	57.2	48.1
20/11/2018 00:01:44	51.1	52.8	55.1	48.0
20/11/2018 00:06:44	71.3	52.0	52.8	46.6
20/11/2018 00:11:44	65.6	53.7	57.2	48.1
20/11/2018 00:16:44	65.6	53.7	57.2	48.1
20/11/2018 00:21:44	65.6	53.7	57.2	48.1
20/11/2018 00:26:44	65.6	53.7	57.2	48.1
20/11/2018 00:31:44	65.6	53.7	57.2	48.1
20/11/2018 00:36:44	65.6	53.7	57.2	48.1
20/11/2018 00:41:44	65.6	53.7	57.2	48.1
20/11/2018 00:46:44	65.6	53.7	57.2	48.1
20/11/2018 00:51:44	65.6	53.7	57.2	48.1
20/11/2018 00:56:44	65.6	53.7	57.2	48.1
20/11/2018 01:01:44	71.0	53.1	53.6	46.6
20/11/2018 01:06:44	71.0	53.1	53.6	46.6
20/11/2018 01:11:44	71.0	53.1	53.6	46.6
20/11/2018 01:16:44	71.0	53.1	53.6	46.6
20/11/2018 01:21:44	71.0	53.1	53.6	46.6
20/11/2018 01:26:44	65.4	50.7	53.7	46.5
20/11/2018 01:31:44	65.4	49.5	53.1	45.6
20/11/2018 01:36:44	65.4	49.5	53.1	45.6
20/11/2018 01:41:44	62.1	52.1	53.5	47.6
20/11/2018 01:46:44	62.1	52.1	53.5	47.6
20/11/2018 01:51:44	66.3	53.9	53.5	48.6
20/11/2018 01:56:44	66.3	53.9	53.5	48.6
20/11/2018 02:01:44	71.0	53.1	53.6	46.6
20/11/2018 02:06:44	71.0	53.1	53.6	46.6
20/11/2018 02:11:44	71.0	53.1	53.6	46.6
20/11/2018 02:16:44	71.0	53.1	53.6	46.6
20/11/2018 02:21:44	65.4	50.7	53.7	46.5
20/11/2018 02:26:44	65.4	49.5	53.1	45.6
20/11/2018 02:31:44	62.1	52.1	53.5	47.6
20/11/2018 02:36:44	62.1	52.1	53.5	47.6
20/11/2018 02:41:44	66.3	53.9	53.5	48.6
20/11/2018 02:46:44	66.3	53.9	53.5	48.6
20/11/2018 02:51:44	71.0	53.1	53.6	46.6
20/11/2018 02:56:44	71.0	53.1	53.6	46.6
20/11/2018 03:01:44	71.0	53.1	53.6	46.6
20/11/2018 03:06:44	71.0	53.1	53.6	46.6
20/11/2018 03:11:44	71.0	53.1	53.6	46.6
20/11/2018 03:16:44	65.4	50.7	53.7	46.5
20/11/2018 03:21:44	65.4	49.5	53.1	45.6
20/11/2018 03:26:44	62.1	52.1	53.5	47.6
20/11/2018 03:31:44	62.1	52.1	53.5	47.6
20/11/2018 03:36:44	66.3	53.9	53.5	48.6
20/11/2018 03:41:44	66.3	53.9	53.5	48.6
20/11/2018 03:46:44	71.0	53.1	53.6	46.6
20/11/2018 03:51:44	71.0	53.1	53.6	46.6
20/11/2018 03:56:44	71.0	53.1	53.6	46.6
20/11/2018 04:01:44	65.4	50.7	53.7	46.5
20/11/2018 04:06:44	65.4	49.5	53.1	45.6
20/11/2018 04:11:44	62.1	52.1	53.5	47.6
20/11/2018 04:16:44	62.1	52.1	53.5	47.6
20/11/2018 04:21:44	66.3	53.9	53.5	48.6
20/11/2018 04:26:44	66.3	53.9	53.5	48.6
20/11/2018 04:31:44	71.0	53.1	53.6	46.6
20/11/2018 04:36:44	71.0	53.1	53.6	46.6
20/11/2018 04:41:44	71.0	53.1	53.6	46.6
20/11/2018 04:46:44	71.0	53.1	53.6	46.6
20/11/2018 04:51:44	71.0	53.1	53.6	46.6
20/11/2018 04:56:44	65.4	50.7	53.7	46.5
20/11/2018 05:01:44	65.4	49.5	53.1	45.6
20/11/2018 05:06:44	62.1	52.1	53.5	47.6
20/11/2018 05:11:44	62.1	52.1	53.5	47.6
20/11/2018 05:16:44	66.3	53.9	53.5	48.6
20/11/2018 05:21:44	66.3	53.9	53.5	48.6
20/11/2018 05:26:44	71.0	53.1	53.6	46.6
20/11/2018 05:31:44	71.0	53.1	53.6	46.6
20/11/2018 05:36:44	71.0	53.1	53.6	46.6
20/11/2018 05:41:44	71.0	53.1	53.6	46.6
20/11/2018 05:46:44	71.0	53.1	53.6	46.6
20/11/2018 05:51:44	71.0	53.1	53.6	46.6
20/11/2018 05:56:44	65.4	50.7	53.7	46.5
20/11/2018 06:01:44	65.4	49.5	53.1	45.6
20/11/2018 06:06:44	62.1	52.1	53.5	47.6
20/11/2018 06:11:44	62.1	52.1	53.5	47.6
20/11/2018 06:16:44	66.3	53.9	53.5	48.6
20/11/2018 06:21:44	66.3	53.9	53.5	48.6
20/11/2018 06:26:44	71.0	53.1	53.6	46.6
20/11/2018 06:31:44	71.0	53.1	53.6	46.6
20/11/2018 06:36:44	71.0	53.1	53.6	46.6
20/11/2018 06:41:44	71.0	53.1	53.6	46.6
20/11/2018 06:46:44	71.0	53.1	53.6	46.6
20/11/2018 06:51:44	71.0	53.1	53.6	46.6
20/11/2018 06:56:44	65.4	50.7	53.7	46.5
20/11/2018 07:01:44	65.4	49.5	53.1	45.6
20/11/2018 07:06:44	62.1	52.1	53.5	47.6
20/11/2018 07:11:44	62.1	52.1	53.5	47.6
20/11/2018 07:16:44	66.3	53.9	53.5	48.6
20/11/2018 07:21:44	66.3	53.9	53.5	48.6
20/11/2018 07:26:44	71.0	53.1	53.6	46.6
20/11/2018 07:31:44	71.0	53.1	53.6	46.6
20/11/2018 07:36:44	71.0	53.1	53.6	46.6
20/11/2018 07:41:44	71.0	53.1	53.6	46.6
20/11/2018 07:46:44	71.0	53.1	53.6	46.6
20/11/2018 07:51:44	71.0	53.1	53.6	46.6
20/11/2018 07:56:44	65.4	50.7	53.7	46.5
20/11/2018 08:01:44	65.4	49.5	53.1	45.6
20/11/2018 08:06:44	62.1	52.1	53.5	47.6
20/11/2018 08:11:44	62.1	52.1	53.5	47.6
20/11/2018 08:16:44	66.3	53.9	53.5	48.6
20/11/2018 08:21:44	66.3	53.9	53.5	48.6
20/11/2018 08:26:44	71.0	53.1	53.6	46.6
20/11/2018 08:31:44	71.0	53.1	53.6	46.6
20/11/2018 08:36:44	71.0	53.1	53.6	46.6
20/11/2018 08:41:44	71.0	53.1	53.6	46.6
20/11/2018 08:46:44	71.0	53.1	53.6	46.6
20/11/2018 08:51:44	71.0	53.1	53.6	46.6
20/11/2018 08:56:44	65.4	50.7	53.7	46.5
20/11/2018 09:01:44	65.4	49.5	53.1	45.6
20/11/2018 09:06:44	62.1	52.1	53.5	47.6
20/11/2018 09:11:44	62.1	52.1	53.5	47.6
20/11/2018 09:16:44	66.3	53.9	53.5	48.6
20/11/2018 09:21:44	66.3	53.9	53.5	48.6
20/11/2018 09:26:44	71.0	53.1	53.6	46.6
20/11/2018 09:31:44	71.0	53.1	53.6	46.6
20/11/2018 09:36:44	71.0	53.1	53.6	46.6
20/11/2018 09:41:44	71.0	53.1	53.6	46.6
20/11/2018 09:46:44	71.0	53.1	53.6	46.6
20/11/2018 09:51:44	71.0	53.1	53.6	46.6
20/11/2018 09:56:44	65.4	50.7	53.7	46.5
20/11/2018 10:01:44	65.4	49.5	53.1	45.6
20/11/2018 10:06:44	62.1	52.1	53.5	47.6
20/11/2018 10:11:44	62.1	52.1	53.5	47.6
20/11/2018 10:16:44	66.3	53.9	53.5	48.6
20/11/2018 10:21:44	66.3	53.9	53.5	48.6
20/11/2018 10:26:44	71.0	53.1	53.6	46.6
20/11/2018 10:31:44	71.0	53.1	53.6	46.6
20/11/2018 10:36:44	71.0	53.1	53.6	46.6
20/11/2018 10:41:44	71.0	53.1	53.6	46.6
20/11/2018 10:46:44	71.0	53.1	53.6	46.6
20/11/2018 10:51:44	71.0	53.1	53.6	46.6
20/11/2018 10:56:44	65.4	50.7	53.7	46.5
20/11/2018 11:01:44	65.4	49.5	53.1	45.6
20/11/2018 11:06:44	62.1	52.1	53.5	47.6
20/11/2018 11:11:44	62.1	52.1	53.5	47.6
20/11/2018 11:16:44	66.3	53.9	53.5	48.6
20/11/2018 11:21:44	66.3	53.9	53.5	48.6
20/11/2018 11:26:44	71.0	53.1	53.6	46.6
20/11/2018 11:31:44	71.0	53.1	53.6	46.6
20/11/2018 11:36:44	71.0	53.1	53.6	46.6
20/11/2018 11:41:44	71.0	53.1	53.6	46.6
20/11/2018 11:46:44	71.0	53.1	53.6	46.6
20/11/2018 11:51:44	71.0	53.1	53.6	46.6
20/11/2018 11:56:44	65.4	50.7	53.7	46.5
20/11/2018 12:01:44	65.4	49.5	53.1	45.6
20/11/2018 12:06:44	62.1	52.1	53.5	47.6
20/11/2018 12:11:44	62.1	52.1	53.5	47.6
20/11/2018 12:16:44	66.3	53.9	53.5	48.6
20/11/2018 12:21:44	66.3	53.9	53.5	48.6
20/11/2018 12:26:44	71.0	53.1	53.6	46.6
20/11/2018 12:31:44	71.0	53.1	53.6	46.6
20/11/2018 12:36:44	71.0	53.1	53.6	46.6
20/11/2018 12:41:44	71.0	53.1	53.6	46.6
20/11/2018 12:46:44	71.0	53.1	53.6	46.6
20/11/2018 12:51:44	71.0	53.1	53.6	46.6
20/11/2018 12:56:44	65.4	50.7	53.7	46.5
20/11/2018 13:01:44	65.4	49.5	53.1	45.6
20/11/2018 13:06:44	62.1	52.1	53.5	47.6
20/11/2018 13:11:44	62.1	52.1	53.5	47.6
20/11/2018 13:16:44	66.3	53.9	53.5	48.6
20/11/2018 13:21:44	66.3	53.9	53.5	48.6
20/11/2018 13:26:44	71.0	53.1	53.6	46.6
20/11/2018 13:31:44	71.0	53.1	53.6	46.6
20/11/2018 13:36:44	71.0	53.1	53.6	46.6
20/11/2018 13:41:44	71.0	53.1	53.6	46.6
20/11/2018 13:46:44	71.0	53.1	53.6	46.6
20/11/2018 13:51:44	71.0	53.1	53.6	46.6
20/11/2018 13:56:44	65.4	50.7	53.7	46.5
20/11/2018 14:01:44	65.4	49.5	53.1	

Date: 10/12/2017
Reference: 4122_ENA/001

[illegible]

1st day	L50	IAU(max)	LA20	LA90
(2017/12/11-15:38:40.0)	53.0	68.9	55.0	46.0
(2017/12/11-16:03:34.0)	60.1	77.6	62.6	47.0
(2017/12/11-16:38:04.0)	51.6	65.5	54.3	43.9
(2017/12/11-16:35:35.0)	50.4	59.2	52.6	46.8
(2017/12/11-16:35:50.0)	54.4	64.3	52.2	45.0
(2017/12/11-16:23:35.0)	54.0	71.6	57.0	48.4
(2017/12/11-16:28:36.0)	52.4	65.1	53.8	46.1
(2017/12/11-16:33:36.0)	51.8	66.6	53.6	45.7
(2017/12/11-16:38:37.0)	53.3	70.2	57.8	46.5
(2017/12/11-16:38:01.0)	51.5	68.5	53.0	45.1
(2017/12/11-16:37:57.0)	52.1	64.1	53.7	47.0
(2017/12/11-16:53:38.0)	53.6	67.4	56.4	48.2
(2017/12/11-16:58:38.0)	50.0	62.5	51.9	46.3
(2017/12/11-17:03:39.0)	51.8	66.0	52.5	46.1
(2017/12/11-17:08:39.0)	49.6	60.1	51.7	46.6
(2017/12/11-17:13:40.0)	52.7	62.4	53.5	46.8
(2017/12/11-17:18:40.0)	53.9	68.0	56.8	47.7
(2017/12/11-17:23:40.0)	55.8	76.3	58.0	46.3
(2017/12/11-17:28:40.0)	53.7	67.8	56.8	46.1
(2017/12/11-17:33:41.0)	51.9	68.0	53.1	47.1
(2017/12/11-17:38:41.0)	51.8	67.7	53.7	45.5
(2017/12/11-17:43:41.0)	54.4	64.8	54.4	45.5
(2017/12/11-17:48:42.0)	55.1	72.0	58.3	45.9
(2017/12/11-17:53:42.0)	51.4	63.0	54.2	47.5
(2017/12/11-17:58:42.0)	48.3	56.6	50.2	45.6
(2017/12/11-18:03:43.0)	53.4	66.8	56.8	47.0
(2017/12/11-18:08:43.0)	51.6	66.2	53.4	46.0
(2017/12/11-18:13:43.0)	52.7	66.8	55.5	46.0
(2017/12/11-18:18:43.0)	53.8	66.0	57.1	48.0
(2017/12/11-18:23:44.0)	51.0	66.7	51.7	47.4
(2017/12/11-18:28:44.0)	51.9	66.2	54.3	46.5
(2017/12/11-18:33:45.0)	52.3	66.4	55.9	45.5
(2017/12/11-18:38:45.0)	51.7	65.5	54.4	46.6
(2017/12/11-18:43:45.0)	50.0	66.6	52.7	45.7
(2017/12/11-18:48:45.0)	50.9	61.9	54.2	45.0
(2017/12/11-18:53:46.0)	50.1	64.7	50.9	45.2
(2017/12/11-18:58:46.0)	54.1	74.5	54.9	45.6
(2017/12/11-19:03:46.0)	51.1	66.1	54.1	45.7
(2017/12/11-19:08:47.0)	52.7	67.6	53.6	45.5
(2017/12/11-19:13:47.0)	51.3	61.6	54.8	46.3
(2017/12/11-19:18:48.0)	52.0	64.9	54.6	46.6
(2017/12/11-19:23:48.0)	53.5	67.0	56.2	47.3
(2017/12/11-19:28:48.0)	53.7	68.2	56.6	46.9
(2017/12/11-19:33:48.0)	52.8	69.9	53.7	47.7
(2017/12/11-19:38:49.0)	52.3	64.1	55.4	47.5
(2017/12/11-19:43:49.0)	53.3	69.4	56.3	47.5
(2017/12/11-19:48:49.0)	51.6	68.4	53.1	46.8
(2017/12/11-19:53:49.0)	52.4	66.6	54.9	46.8
(2017/12/11-19:58:50.0)	51.8	66.1	54.2	46.6
(2017/12/11-20:03:50.0)	50.3	61.6	52.7	47.0
(2017/12/11-20:08:50.0)	50.5	64.1	51.8	47.4
(2017/12/11-20:13:51.0)	50.7	61.1	53.2	46.8
(2017/12/11-20:18:51.0)	52.8	66.9	55.6	44.7
(2017/12/11-20:23:52.0)	49.3	57.0	51.6	44.6
(2017/12/11-20:28:53.0)	51.9	69.1	56.1	45.5
(2017/12/11-20:33:52.0)	50.3	59.8	52.2	46.4
(2017/12/11-20:38:53.0)	52.4	67.8	54.1	47.2
(2017/12/11-20:43:53.0)	52.9	67.4	55.2	46.4
(2017/12/11-20:48:53.0)	53.6	66.6	57.3	46.5
(2017/12/11-20:53:54.0)	50.2	67.8	51.5	45.3
(2017/12/11-20:58:54.0)	51.1	70.6	54.4	46.1
(2017/12/11-21:03:54.0)	52.1	65.5	54.0	46.1
(2017/12/11-21:08:55.0)	50.5	66.2	53.0	45.4
(2017/12/11-21:13:55.0)	51.9	64.5	54.5	46.1
(2017/12/11-21:18:56.0)	51.8	66.0	53.5	46.0
(2017/12/11-21:23:56.0)	50.2	78.1	51.4	44.6
(2017/12/11-21:28:57.0)	49.8	65.6	52.0	46.0
(2017/12/11-21:33:57.0)	49.4	59.2	51.7	45.5
(2017/12/11-21:38:58.0)	51.7	64.2	53.3	46.0
(2017/12/11-21:43:58.0)	50.8	66.8	52.8	45.4
(2017/12/11-21:48:59.0)	50.8	64.1	53.2	45.7
(2017/12/11-21:53:59.0)	51.4	64.3	53.3	46.0
(2017/12/11-21:58:59.0)	51.1	64.4	53.4	45.5
(2017/12/11-22:04:00.0)	53.2	69.5	56.1	46.4
(2017/12/11-22:09:00.0)	52.5	68.5	54.1	44.7
(2017/12/11-22:14:01.0)	49.7	65.5	50.8	43.1
(2017/12/11-22:19:01.0)	48.7	69.9	50.6	43.8
(2017/12/11-22:24:01.0)	49.3	63.2	51.6	43.0
(2017/12/11-22:29:02.0)	51.1	67.0	53.3	44.7
(2017/12/11-22:34:02.0)	49.1	64.3	50.5	42.7
(2017/12/11-22:39:03.0)	49.1	58.1	52.6	41.2
(2017/12/11-22:44:03.0)	53.2	69.1	54.0	44.4
(2017/12/11-22:49:03.0)	47.6	55.2	50.2	43.9
(2017/12/11-22:54:04.0)	46.5	56.7	49.3	42.7
(2017/12/11-22:59:04.0)	49.5	67.4	54.5	43.1
(2017/12/11-23:04:04.0)	49.5	58.2	52.3	44.4
(2017/12/11-23:09:05.0)	47.8	55.7	51.0	41.8
(2017/12/11-23:14:06.0)	48.3	57.7	51.6	43.3
(2017/12/11-23:19:06.0)	47.7	57.6	50.6	42.0
(2017/12/11-23:24:06.0)	47.4	62.2	50.6	41.0
(2017/12/11-23:29:06.0)	51.0	68.8	52.1	41.5
(2017/12/11-23:34:06.0)	48.2	62.9	50.2	40.4
(2017/12/11-23:39:07.0)	47.8	64.5	49.8	39.3
(2017/12/11-23:44:07.0)	50.3	68.8	51.1	40.4
(2017/12/11-23:49:07.0)	47.7	67.5	53.4	42.2
(2017/12/11-23:54:08.0)	47.1	56.1	50.1	40.4

1st day	LAeq	LA _F (max)	LA _D	LA ₉₀
(2017/11/21 23:59:00.00)	48.0	65.5	50.8	40.5
(2017/11/22 00:00:00.00)	46.0	60.3	49.9	37.7
(2017/11/22 00:09:00.00)	48.9	63.7	51.5	40.6
(2017/11/22 00:14:10.00)	47.8	62.3	50.3	39.3
(2017/11/22 00:19:10.00)	47.2	62.6	51.5	38.8
(2017/11/22 00:24:10.00)	46.2	56.8	49.5	40.7
(2017/11/22 00:29:11.00)	51.6	69.3	55.4	38.8
(2017/11/22 00:34:11.00)	50.1	65.1	51.5	39.4
(2017/11/22 00:39:12.00)	47.0	65.6	46.3	36.5
(2017/11/22 00:44:12.00)	41.5	53.2	48.8	35.1
(2017/11/22 00:49:12.00)	48.3	66.1	49.2	36.4
(2017/11/22 00:54:13.00)	46.5	57.8	50.5	37.5
(2017/11/22 00:59:13.00)	48.2	57.3	52.6	40.5
(2017/11/22 01:04:13.00)	44.0	54.3	47.5	38
(2017/11/22 01:09:13.00)	44.3	56.9	47.4	37.7
(2017/11/22 01:14:13.00)	44.3	61.6	45.6	37.7
(2017/11/22 01:19:14.00)	48.4	64.3	49.8	38
(2017/11/22 01:24:14.00)	41.3	53.6	44.7	34.2
(2017/11/22 01:29:14.00)	44.8	58.3	48.0	38.3
(2017/11/22 01:34:15.00)	47.5	57.6	51.3	39.7
(2017/11/22 01:39:15.00)	46.4	56.9	51.1	37.2
(2017/11/22 01:44:15.00)	41.3	53.7	44.7	34.2
(2017/11/22 01:49:16.00)	44.6	59.8	47.5	35.4
(2017/11/22 01:54:16.00)	45.2	59.2	49.8	35.5
(2017/11/22 01:59:16.00)	41.5	56.4	44.5	35.5
(2017/11/22 02:04:16.00)	48.1	60.6	52.3	38.7
(2017/11/22 02:09:17.00)	42.5	54.7	52.3	36.8
(2017/11/22 02:14:17.00)	46.5	57.6	51.5	38.8
(2017/11/22 02:19:17.00)	45.0	58.4	49.1	37.3
(2017/11/22 02:24:17.00)	47.7	59.6	51.3	39.8
(2017/11/22 02:29:17.00)	46.0	59.7	48.3	36.9
(2017/11/22 02:34:18.00)	41.2	54.5	43.9	34.8
(2017/11/22 02:39:18.00)	39.8	58.7	41.2	32.7
(2017/11/22 02:44:18.00)	44.3	58.4	47.3	35.7
(2017/11/22 02:49:18.00)	48.1	65.0	51.4	35.1
(2017/11/22 02:54:19.00)	49.9	61.7	55.3	41.0
(2017/11/22 02:59:19.00)	46.5	59.9	49.8	39.7
(2017/11/22 03:04:20.00)	47.3	61.8	51.9	40.0
(2017/11/22 03:09:20.00)	45.5	60.2	48.8	36.3
(2017/11/22 03:14:20.00)	49.6	64.2	53.1	41.0
(2017/11/22 03:19:21.00)	47.3	61.8	50.8	37.4
(2017/11/22 03:24:21.00)	44.4	59.9	47.3	37.0
(2017/11/22 03:29:22.00)	47.0	63.8	50.9	36.2
(2017/11/22 03:34:22.00)	50.9	69.8	54.7	36.6
(2017/11/22 03:39:23.00)	50.5	66.1	53.1	38.6
(2017/11/22 03:44:23.00)	43.0	60.7	45.8	36.7
(2017/11/22 03:49:23.00)	44.2	59.7	47.1	37.1
(2017/11/22 03:54:23.00)	47.1	62.6	50.4	40.9
(2017/11/22 03:59:24.00)	47.2	65.6	47.2	36.0
(2017/11/22 04:04:24.00)	45.2	62.3	48.8	37.2
(2017/11/22 04:09:24.00)	44.8	57.6	48.2	37.7
(2017/11/22 04:14:24.00)	51.2	68.2	53.8	42.8
(2017/11/22 04:19:25.00)	51.0	68.1	54.3	42.4
(2017/11/22 04:24:25.00)	50.7	67.9	53.1	38.3
(2017/11/22 04:29:25.00)	49.3	63.7	53.3	37.6
(2017/11/22 04:34:26.00)	44.8	44.8	44.8	35.5
(2017/11/22 04:39:26.00)	40.0	55.0	43.5	33.7
(2017/11/22 04:44:26.00)	50.3	59.6	54.9	36.3
(2017/11/22 04:49:27.00)	41.9	54.6	45.0	36.3
(2017/11/22 04:54:27.00)	43.5	56.7	46.8	36.6
(2017/11/22 04:59:27.00)	43.6	54.7	46.8	36.6
(2017/11/22 05:04:28.00)	43.0	56.2	46.2	35.5
(2017/11/22 05:09:28.00)	49.8	69.3	51.0	36.3
(2017/11/22 05:14:28.00)	44.3	62.6	46.8	37.4
(2017/11/22 05:19:28.00)	45.0	61.9	48.2	36.2
(2017/11/22 05:24:29.00)	40.7	56.2	45.8	35.9
(2017/11/22 05:29:29.00)	38.3	53.5	40.0	34.8
(2017/11/22 05:34:29.00)	47.9	62.7	51.1	37.1
(2017/11/22 05:39:29.00)	44.1	58.2	47.6	37.2
(2017/11/22 05:44:30.00)	48.3	61.6	51.9	37.9
(2017/11/22 05:49:30.00)	47.5	56.0	49.4	38.5
(2017/11/22 05:54:30.00)	45.6	61.6	50.9	38.2
(2017/11/22 05:59:30.00)	47.1	57.6	51.8	37.9
(2017/11/22 06:04:30.00)	49.3	67.4	52.1	39.1
(2017/11/22 06:09:31.00)	47.5	58.1	51.1	40.4
(2017/11/22 06:14:31.00)	48.5	64.6	51.2	39.9
(2017/11/22 06:19:31.00)	47.5	63.3	51.0	40.6
(2017/11/22 06:24:32.00)	49.3	63.0	53.2	41.2
(2017/11/22 06:29:32.00)	52.0	67.9	53.2	39.6
(2017/11/22 06:34:32.00)	46.3	59.5	49.2	39.8
(2017/11/22 06:39:32.00)	47.8	62.1	50.9	41.5
(2017/11/22 06:44:33.00)	50.2	65.6	52.5	41.4
(2017/11/22 06:49:33.00)	52.2	67.1	55.4	44.5
(2017/11/22 06:54:34.00)	49.2	64.5	52.8	41.8
(2017/11/22 06:59:34.00)	47.3	63.0	50.4	41.4
(2017/11/22 07:04:34.00)	47.9	57.9	51.1	43.5
(2017/11/22 07:09:34.00)	48.9	61.5	50.8	42.9
(2017/11/22 07:14:34.00)	49.9	61.2	52.8	45.8
(2017/11/22 07:19:35.00)	49.9	59.7	51.1	43.1
(2017/11/22 07:24:35.00)	51.7	65.4	54.7	45.9
(2017/11/22 07:29:35.00)	50.0	60.9	52.6	45.2
(2017/11/22 07:34:36.00)	50.8	59.0	53.9	45.7
(2017/11/22 07:39:36.00)	51.0	61.1	53.5	47.2
(2017/11/22 07:44:37.00)	52.8	71.1	54.2	45.7
(2017/11/22 07:49:37.00)	52.8	69.7	53.3	46.6
(2017/11/22 07:54:37.00)	51.4	65.9	53.4	46.5

Project: 39 Brunswick Hill, Reading
Client: EB Solutions Ltd

Date: 10/12/2017
Reference: 4122_ENA/001

2nd day					2nd day					2nd day					3rd day				
Ref ID	Lngr	LAT(mm)	LATD	LATD	Ref ID	Lngr	LAT(mm)	LATD	LATD	Ref ID	Lngr	LAT(mm)	LATD	LATD	Ref ID	Lngr	LAT(mm)	LATD	LATD
2007/11/02 07:29:38.000	52.7	68.5	58.1	49.3	2007/11/02 08:00:11.000	54.9	76.0	57.8	49.6	2007/11/02 08:00:44.000	58.2	70.3	60.4	49.0	2007/11/02 08:00:58.000	55.6	69.5	58.4	50.8
2007/11/02 08:04:38.000	52.1	63.6	53.9	49.1	2007/11/02 08:05:11.000	56.1	76.0	57.3	49.7	2007/11/02 08:05:44.000	58.5	62.3	54.4	48.5	2007/11/02 08:06:18.000	56.5	69.5	58.4	49.8
2007/11/02 08:09:38.000	54.6	74.6	56.7	46.7	2007/11/02 08:10:11.000	54.6	70.6	59.7	48.5	2007/11/02 08:10:44.000	55.6	62.9	54.8	45.5	2007/11/02 08:11:18.000	56.5	72.8	59.4	48.3
2007/11/02 08:14:38.000	54.0	70.1	58.3	47.5	2007/11/02 08:15:11.000	52.7	68.4	56.6	49.8	2007/11/02 08:15:44.000	57.9	70.4	63.7	49.3	2007/11/02 08:16:18.000	57.2	69.7	63.3	49.6
2007/11/02 08:19:38.000	54.0	56.7	57.6	47.3	2007/11/02 08:20:11.000	56.7	69.1	59.9	50.8	2007/11/02 08:20:44.000	53.5	67.2	56.8	49.7	2007/11/02 08:21:18.000	54.1	58.4	57.1	47.6
2007/11/02 08:24:38.000	58.3	72.1	62.6	48.6	2007/11/02 08:25:11.000	54.1	63.6	57.2	49.4	2007/11/02 08:25:44.000	54.1	69.1	58.5	49.6	2007/11/02 08:26:18.000	52.7	69.0	53.4	48.8
2007/11/02 08:29:38.000	57.0	74.0	61.1	46.9	2007/11/02 08:30:11.000	56.6	78.3	58.4	50.8	2007/11/02 08:30:44.000	54.2	69.5	56.7	47.6	2007/11/02 08:31:18.000	53.4	66.1	56.3	47.8
2007/11/02 08:34:38.000	56.5	62.3	60.2	46.8	2007/11/02 08:35:11.000	54.2	74.1	62.7	49.6	2007/11/02 08:35:44.000	54.2	74.1	62.7	49.6	2007/11/02 08:36:18.000	56.6	73.4	63.1	48.6
2007/11/02 08:39:38.000	55.1	69.5	63.2	47.9	2007/11/02 08:40:11.000	53.8	67.2	55.4	48.8	2007/11/02 08:40:44.000	54.0	71.5	55.5	46.3	2007/11/02 08:41:18.000	56.5	70.0	60.0	47.8
2007/11/02 08:44:38.000	54.8	70.3	57.9	46.9	2007/11/02 08:45:11.000	55.5	76.1	57.2	48.7	2007/11/02 08:45:44.000	53.0	69.6	54.5	45.8	2007/11/02 08:46:18.000	58.7	71.5	62.9	49.1
2007/11/02 08:49:38.000	55.8	77.6	59.5	47.6	2007/11/02 08:50:11.000	53.7	65.6	56.6	48.8	2007/11/02 08:50:44.000	54.7	67.1	57.4	48.3	2007/11/02 08:51:18.000	55.8	69.5	59.4	47.1
2007/11/02 08:54:38.000	54.4	70.5	60.2	47.2	2007/11/02 08:55:11.000	54.1	69.4	56.3	48.4	2007/11/02 08:55:44.000	56.8	70.4	60.4	49.0	2007/11/02 08:56:18.000	56.5	76.0	57.9	48.6
2007/11/02 08:59:38.000	53.6	67.6	56.0	47.8	2007/11/02 08:59:11.000	50.0	63.7	53.6	47.5	2007/11/02 08:59:44.000	53.6	69.7	58.8	47.4	2007/11/02 08:59:18.000	53.8	65.0	59.8	47.0
2007/11/02 09:04:38.000	56.5	74.8	60.6	47.5	2007/11/02 09:05:11.000	53.5	68.2	53.6	48.6	2007/11/02 09:05:44.000	56.2	75.3	57.0	48.4	2007/11/02 09:06:18.000	56.8	75.7	57.1	48.1
2007/11/02 09:09:38.000	54.7	67.4	58.7	47.4	2007/11/02 09:10:11.000	53.3	68.4	55.4	48.4	2007/11/02 09:10:44.000	52.1	70.1	54.8	46.4	2007/11/02 09:11:18.000	52.5	69.8	55.5	47.9
2007/11/02 09:14:38.000	54.9	70.6	60.1		2007/11/02 09:15:11.000	53.3	68.4	55.4	48.4	2007/11/02 09:15:44.000	52.1	70.1	54.8	46.4	2007/11/02 09:16:18.000	54.2	69.4	54.5	47.7
2007/11/02 09:19:38.000	58.3	69.1	62.7	47.6	2007/11/02 09:20:11.000	54.5	67.0	57.7	49.0	2007/11/02 09:20:44.000	54.0	68.7	56.9	47.2	2007/11/02 09:21:18.000	57.3	69.8	63.7	47.7
2007/11/02 09:24:38.000	57.1	71.7	63.5	47.2	2007/11/02 09:25:11.000	53.3	70.2	54.6	48.3	2007/11/02 09:25:44.000	52.7	70.5	54.8	46.8	2007/11/02 09:26:18.000	57.4	75.8	62.3	48.0
2007/11/02 09:29:38.000	58.1	73.0	63.4	49.0	2007/11/02 09:30:11.000	50.2	63.9	50.8	47.4	2007/11/02 09:30:44.000	54.9	72.0	60.2	46.1	2007/11/02 09:31:18.000	54.5	72.2	59.4	47.9
2007/11/02 09:34:38.000	53.6	69.8	58.0	47.2	2007/11/02 09:35:11.000	53.1	68.0	56.5	48.4	2007/11/02 09:35:44.000	54.7	72.0	56.7	46.8	2007/11/02 09:36:18.000	57.2	69.6	61.8	47.2
2007/11/02 09:39:38.000	56.7	72.1	60.0	46.3	2007/11/02 09:40:11.000	53.6	68.6	55.0	47.9	2007/11/02 09:40:44.000	57.5	70.1	57.7	49.2	2007/11/02 09:41:18.000	59.3	74.0	60.7	49.1
2007/11/02 09:44:38.000	57.2	70.3	60.3	49.0	2007/11/02 09:45:11.000	53.5	64.1	56.8	48.5	2007/11/02 09:45:44.000	54.8	69.9	56.7	47.8	2007/11/02 09:46:18.000	54.5	69.0	58.0	47.9
2007/11/02 09:49:38.000	56.5	71.4	59.5	49.3	2007/11/02 09:50:11.000	53.5	63.6	53.4	48.7	2007/11/02 09:50:44.000	53.1	68.4	62.1	47.2	2007/11/02 09:51:18.000	55.6	69.1	60.1	46.8
2007/11/02 09:54:38.000	56.2	71.9	57.1	46.8	2007/11/02 09:55:11.000	52.6	66.0	55.0	48.3	2007/11/02 09:55:44.000	58.4	67.7	63.4	50.6	2007/11/02 09:56:18.000	57.4	68.4	58.4	46.5
2007/11/02 09:59:38.000	55.9	69.1	58.7	47.9	2007/11/02 10:00:11.000	53.4	71.7	55.1	47.8	2007/11/02 10:00:44.000	53.8	69.7	59.1	48.1	2007/11/02 10:01:18.000	57.7	70.8	62.2	47.2
2007/11/02 10:04:38.000	55.6	71.8	58.1	48.6	2007/11/02 10:05:11.000	53.5	62.7	54.5	48.5	2007/11/02 10:05:44.000	59.2	71.7	61.1	50.3	2007/11/02 10:06:18.000	54.8	70.0	58.0	46.9
2007/11/02 10:09:38.000	55.3	69.2	57.8	49.0	2007/11/02 10:10:11.000	53.7	63.6	52.9	48.5	2007/11/02 10:10:44.000	61.7	71.5	64.8	58.8	2007/11/02 10:11:18.000	56.0	71.8	58.0	48.9
2007/11/02 10:14:38.000	55.9	67.5	59.1	46.5	2007/11/02 10:15:11.000	54.4	68.1	57.0	47.8	2007/11/02 10:15:44.000	57.5	70.5	60.5	51.0	2007/11/02 10:16:18.000	52.6	66.4	54.4	45.4
2007/11/02 10:19:38.000	54.2	67.6	57.6	47.8	2007/11/02 10:20:11.000	52.0	65.5	53.8	47.9	2007/11/02 10:20:44.000	51.1	73.9	56.5	45.0	2007/11/02 10:21:18.000	53.5	65.5	56.5	46.4
2007/11/02 10:24:38.000	53.5	68.3	52.6	47.6	2007/11/02 10:25:11.000	53.9	64.4	55.2	50.2	2007/11/02 10:25:44.000	48.8	63.2	53.9	42.5	2007/11/02 10:26:18.000	52.1	63.2	54.0	47.4
2007/11/02 10:29:38.000	54.9	74.3	56.7	47.5	2007/11/02 10:30:11.000	53.3	63.5	54.9	50.4	2007/11/02 10:30:44.000	45.7	63.1	56.4	47.3	2007/11/02 10:31:18.000	50.3	74.0	58.7	46.8
2007/11/02 10:34:38.000	53.7	53.8	54.7	47.3	2007/11/02 10:35:11.000	53.5	65.2	55.7	49.1	2007/11/02 10:35:44.000	49.5	66.5	53.6	44.7	2007/11/02 10:36:18.000	59.3	56.3	52.8	45.8
2007/11/02 10:39:38.000	54.0	62.1	56.7	46.8	2007/11/02 10:40:11.000	53.6	64.7	54.0	48.4	2007/11/02 10:40:44.000	49.4	58.4	49.7	37.3	2007/11/02 10:41:18.000	56.8	52.0	56.8	46.0
2007/11/02 10:44:38.000	56.3	69.5	58.9	49.7	2007/11/02 10:45:11.000	52.6	65.5	55.0	48.7	2007/11/02 10:45:44.000	46.2	63.0	48.0	38.6	2007/11/02 10:46:18.000	50.9	62.0	53.2	47.2
2007/11/02 10:49:38.000	56.1	70.6	58.2	49.1	2007/11/02 10:50:11.000	52.7	67.1	60.1	51.4	2007/11/02 10:50:44.000	49.8	68.0	55.3	46.8	2007/11/02 10:51:18.000	52.0	66.0	54.4	46.4
2007/11/02 10:54:38.000	54.3	67.1	57.6	47.9	2007/11/02 10:55:11.000	52.5	64.4	58.2	50.8	2007/11/02 10:55:44.000	45.9	56.5	49.4	38.3	2007/11/02 10:56:18.000	53.0	70.0	53.7	47.5
2007/11/02 10:59:38.000	55.0	67.4	56.2	49.2	2007/11/02 10:59:11.000	52.8	63.5	55.8	50.2	2007/11/02 10:59:44.000	46.8	62.8	50.8	40.8	2007/11/02 10:59:18.000	50.8	65.0	54.0	46.7
2007/11/02 11:04:38.000	53.8	76.0	53.6	47.0	2007/11/02 11:05:11.000	53.5	62.1	55.1	47.0	2007/11/02 11:05:44.000	48.6	64.5	58.3	38.6	2007/11/02 11:06:18.000	53.5	67.8	58.3	48.5
2007/11/02 11:09:38.000	52.2	67.5	55.1	46.5	2007/11/02 11:10:11.000	52.2	63.0	54.0	49.3	2007/11/02 11:10:44.000	48.5	64.1	53.5	45.6	2007/11/02 11:11:18.000	53.1	68.5	54.5	46.5
2007/11/02 11:14:38.000	52.2	64.9	54.2	46.2	2007/11/02 11:15:11.000	52.2	63.0	54.0	49.3	2007/11/02 11:15:44.000	48.5	64.4	53.5	45.6	2007/11/02 11:16:18.000	53.1	68.5	54.5	46.5
2007/11/02 11:19:38.000	53.5	68.5	57.8	50.0	2007/11/02 11:20:11.000	53.3	63.5	54.9	50.8	2007/11/02 11:20:44.000	45.7	59.1	50.9	35.3	2007/11/02 11:21:18.000	54.5	67.4	57.8	48.8
2007/11/02 11:24:38.000	53.7	65.3	53.7	47.7	2007/11/02 11:25:11.000	53.8	67.0	55.3	49.5	2007/11/02 11:25:44.000	42.5	58.2	48.0	35.1	2007/11/02 11:26:18.000	53.7	63.3	53.8	47.3
2007/11/02 11:29:38.000	56.7	63.2	53.8	47.9	2007/11/02 11:30:11.000	56.6	76.1	58.9	50.4	2007/11/02 11:30:44.000	40.9	57.7	49.8	30.2	2007/11/11				