



Proposed Residential Development Land off Ellwood, Lundwood, Barnsley Acoustic Assessment

Report ref.

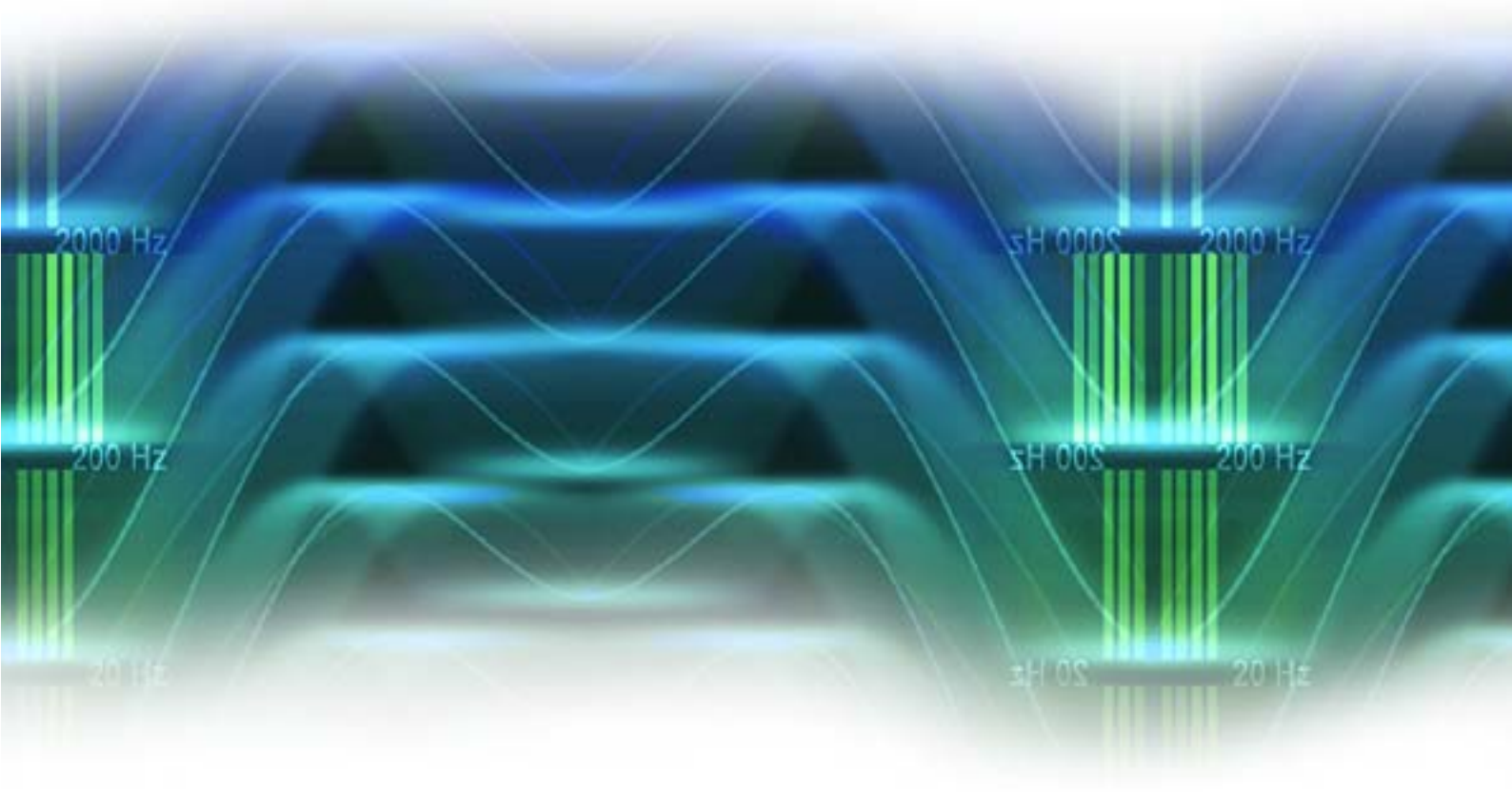
NDT4608/14271

Date

August 2014

Issued to

Gleeson Regeneration

**Issued by**

N D Treby BEng(Hons) MIOA MAES
Principal Consultant

Spectrum
ACOUSTIC CONSULTANTS



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1. INTRODUCTION

Gleeson Regeneration are seeking to obtain planning permission for a residential development of 97 homes at Ellwood, Lundwood, Barnsley.

The site is to the north of Ellwood and Priory Place, both in residential use. The A628 is to the east albeit screened, and set back. To the distant north are further residential properties, and some industrial units. A light industrial unit adjoins the site to the east.

As part of this proposal the noise impact of the surrounding environment and adjoining uses on the amenity of prospective residents of the scheme is required to be addressed.

Spectrum have been engaged to undertake the necessary analyses, measurements and assessment to address these issues.

2. SITE DESCRIPTION AND PROPOSALS

The subject site is bounded as follows:

- To the south by residential properties
- To the north and west by open parkland
- To the east by a warehouse, residential properties and the A628 Pontefract Road

Further north west of the site beyond the parkland is Bromcliffe Park Industrial Estate. The units are of mixed use, some which were generating noise (e.g. a concrete fence maker).

The site is located on the outskirts of Barnsley. The noise environment at the site is a combination of distant road traffic and distant industrial noise. To the north west, Bromcliffe Park Industrial Estate is separated from the site by undulating parkland which provides partial screening at the site. Similarly to the east, the site is partially screened from the A628 Pontefract Road by the topography of the land and the residential and commercial properties on the A628 and Wilson Grove. There is a warehouse on Wilson Grove which borders the south east of the site, which appears to be in commercial use for minibus and coach storage and was not generating significant noise during the measurement period.

Appendix A shows the site location.

3. GUIDELINES FOR ACCEPTABILITY

3.1 NATIONAL PLANNING POLICY FRAMEWORK (NPPF)

The National Planning Policy Framework (NPPF) was published on 27 March 2012 and came in to force with immediate effect. It replaced the previous government policy, Planning Policy Guidance Note (PPG) 24. Paragraph 123 of the NPPF requires that planning decisions aim to avoid noise giving rise to significant adverse impacts on health and quality of life as a result of new development, and that noise arising from new development be reduced to a minimum (through the use of Conditions where appropriate).



The NPPF states that:

“The planning system should contribute to and enhance the natural and local environment by preventing both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability” (Para 109)”.

In addition, paragraph 123 states that planning policies and decisions should 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”.*

3.2 PLANNING PRACTICE GUIDANCE - NOISE

In March, 2014, new government guidance on the role of noise in the planning process was released. This provides advice on issues such as when is noise relevant to planning, how to determine noise impact, discussion on the context of noise and how the impact of noise can be mitigated.

As this is a relatively new document, the way that this guidance will be implemented is likely to be developed over time. In the short-term, it is probable that existing noise standards will be relied upon to assess the acceptability of noise in its various forms and contexts. In particular, there is good evidence within existing standards and guidance, based on social surveys, of the subjective response of people to noise of various types and levels and therefore this will continue to be referred to.

3.3 SUPERSEDED PLANNING POLICY GUIDANCE 24 “PLANNING AND NOISE”

Planning Policy Guidance 24: Planning and noise (PPG24) was the previous government guidance on the role of planning to minimise the adverse impact of noise. With the introduction of the National Planning Policy Framework in April 2012, PPG24 was withdrawn. Nonetheless, the technical discussion contained within PPG24 does provide helpful guidance. In the case of residential developments, PPG24 used the concept of Noise Exposure Categories (NEC) and advocated their use to provide a method for assessing the suitability of land for residential development. These became widely understood in relation to the extent of noise exposure and the type and extent of noise mitigation that was required for residences within each category. PPG24 also advised on the use of conditions to minimise the impact of noise.



3.4 BS 8233:2014 GUIDANCE ON SOUND INSULATION AND NOISE REDUCTION FOR BUILDINGS

The NPPF requires that significant adverse impacts do not arise as a result of new development. Previously, PPG24 referred to BS8233:1999 in relation to specifying acceptable indoor and outdoor noise levels. This standard has now been updated (BS 8233:2014), but still provides the appropriate methods for assessing the noise impact of new developments.

BS8233 advises that for dwellings, the main considerations are the acoustic effect on sleep in bedrooms, and the acoustic effect on resting, listening and communicating in other rooms.

These guidelines then make recommendations for absolute noise targets inside properties as follows.

Activity	Location	0700-2300	2300-0700
Resting	Living room	35 dB LAeq,16hour	-
Dining	Dining room/area	40 dB LAeq,16hour	-
Sleeping (daytime resting)	Bedroom	35 dB LAeq,16hour	30 dB LAeq,8hour

Table 1: Indoor ambient noise levels for dwellings.

It advises that *"If relying on closed windows to meet the guide values, there needs to be an appropriate alternative ventilation that does not compromise the facade insulation or the resulting noise level. If applicable, any room should have adequate ventilation (eg trickle ventilators should be open) during assessment"*. It also advises that *"Where development is considered necessary or desirable...the internal target levels may be relaxed by up to 5 dB and reasonable conditions still achieved"*.

The standard also 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 of LAFmax depending on the character and number of events per night. Sporadic noise events could require separate values"*. It does not give guidance on what might constitute a guideline value. However, as the standard does cross reference Guidelines for Community Noise -World Health Organization, 1999 (WHO), we suggest that the guideline value of LAFmax 45 dB, inside bedrooms, should not be exceeded during the night more than 10-15 times which reflects the WHO position.

BS8233 also suggests guidelines for noise levels in external spaces 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 of 55 dB LAeq,T, which would be acceptable in noisier environments. However, it is recognised that these guideline values are not achievable in all circumstances where development might be desirable...In such a situation, development should be designed to achieve the lowest practicable levels in these external amenity spaces, but should not be prohibited"*.

3.5 WHO – GUIDELINES FOR COMMUNITY NOISE

The guideline levels of BS8233 are a reflection of those set out in *Guidelines for Community Noise* - World Health Organization, 1999 (WHO). WHO sets out these values as table 4.1, and lists them as being guideline values for community noise. WHO recommends internal noise levels of 30dB(A) for bedrooms, and 35dB(A) for living-rooms, which is reflected in BS8233.

The preface to WHO states that community noise includes road, rail and air traffic, industries, construction and public work, and the neighbourhood. In relation to maximum night time noise events, WHO defines regular as not more than 10-15 events per night.



3.6 DISCUSSIONS WITH THE LOCAL AUTHORITY

Spectrum have been in contact with Barnsley Council. James Gardham, (Pollution Prevention and Control Officer, Environmental Protection) has confirmed that these documents are the correct amenity tests, and that the measurement procedures (outlined below) are acceptable.

4. NOISE MEASUREMENT SURVEY

4.1 METHODOLOGY

Ambient noise measurements were carried out during a site survey between Monday 11th and Tuesday 12th August 2014. This survey consisted of noise measurements on the site boundaries. During this survey the site was visited periodically to allow subjective observations to be made.

During the survey, the weather was mostly dry. However, it was windy with significant gusts, wind direction being from the west and south west..

As a result, an additional shorter survey was conducted on Friday 15th August 2014 in more stable weather conditions.

Noise levels on the site were controlled by distant road traffic, and distant industrial sources. During the first survey, the wind in the vegetation significantly increased the measured noise levels.

There was no significant noise resulting from the adjacent warehouse in either survey.

The monitoring locations are shown on the site location plan in Appendix A.

Positions 1 and 2 represent either side of the proposed development site. Position 2 was at the midpoint of the northern site boundary, and represents the noise levels in the garden and at first floor level of the proposed dwellings to the north of the site (plots 1 - 56 and 64 - 67).

Position 1 was on the south eastern boundary and represents the noise levels in the garden and at first floor level of the proposed dwellings to the south of the site (plots 57-63 and 68 -97).

Both measurement microphones were set to a height representing first floor level. This was intended to minimise the effect of screening due to the topography of the site and surrounding buildings, which would likely be more significant at ground floor level.

The following equipment was used during the survey:

- Bruel & Kjaer Type 2260 Sound Level Meter s/n 2120238
- Bruel & Kjaer type 4189 Microphone s/n 2385826
- Bruel & Kjaer Type 4231 Acoustic Calibrator s/n 2115516



- Bruel & Kjaer Type 2260 Sound Level Meter s/n 2290597
- Bruel & Kjaer Type 4189 Microphone s/n 2529662
- Bruel & Kjaer Type 4231 Acoustic Calibrator s/n 2291483
- Bruel & Kjaer Type 2270 Sound Level Meter s/n 3003731
- Bruel & Kjaer Type 4189 Microphone s/n 2888222
- Bruel & Kjaer Type 4231 Acoustic Calibrator s/n 3009564

Before and after the survey, the sound level meters were field-calibrated in accordance with the manufacturer's guidelines and drift was negligible. The meter, microphone and field calibrator are laboratory calibrated biennially in accordance with UKAS procedures or to traceable National Standards.

4.2 MEASUREMENT RESULTS

The results of all the measurements are shown in Appendix B.

Table 1 shows the results of the long term noise monitoring recorded during the windy conditions.

Measurement Position	Measured level		
	Daytime (LAeq,16hr dB)	Night time (LAeq,8hr)dB	Night time typical LAFmax dB
Position 1	50	47	57
Position 2	53	44	66

Table 1: Aggregated summary results of noise monitoring

Note: The numerical LAFmax levels for each 8 hour night-time period have been sorted by value from highest to lowest. From this, it is possible to read off the 10-15th highest LAmx level for each night.

At both positions, the noise levels are similar. This is because wind noise was the dominant source, particularly affecting maximum noise levels measured at position 2 due to localised conditions (vegetation etc).

The shorter term measurements recorded in more settled weather conditions have been converted to 16 hour daytime levels following the procedure set out in the now superseded PPG24.

The 8 hour night time noise level can be determined following the procedures outlined in reference 18 of BS 8233 which is a report prepared for DEFRA by TRL and Casella Stanger, entitled "Method for converting the UK Road Traffic Noise Index LA10,18hr to the EU noise indices for road noise mapping".

This method allows measurements conducted over a three hour daytime period in accordance with "Calculation of Road Traffic Noise –Department of Transport, Welsh Office", to be converted to Lday (the 16 hour daytime level) and Lnight (the 8 hour night time level).

Table 2 shows these calculated levels.



Measurement Position	Calculated level		
	Daytime (LAeq,16hr dB)	Night time (LAeq,8hr)dB	Night time typical LAFmax dB
Position 1	44	38	-
Position 2	42	36	-

Table 2: Aggregated summary results of noise monitoring

The results in table 2 show that, as suspected, noise levels during the initial survey were significantly wind affected.

5. ASSESSMENT

The noise level measured represent the noise level outside the properties across the site. All properties will be exposed to similar noise levels. The assessment below sets out mitigation that is recommended to be adopted.

If assessed under the now withdrawn PPG24, the site would be in Noise Exposure Category A, where LPAs were advised *"Noise should be taken into account when determining planning applications and, where appropriate, conditions imposed to ensure an adequate level of protection against noise"*.

As discussed in more detail in Section 3, BS8233 sets out suitable internal noise levels inside residential properties. The external noise level measured was LAeq,16hr 44 dB during the day and LAeq,8hr 38 during the night.

BS8233 sets out that the reduction of noise through a partially open window is expected to be 10-15 dB. This means that internal noise levels inside properties on this site, with open windows, would be 29-34 dB during the day, and 23-28 dB during the night. This is all within BS 8233 and WHO guidelines. Even if the noisier levels, reported in table 1 during windy conditions were used, noise levels inside would only marginally exceed these guidelines. Therefore, no specific mitigation measures are required.

If residents were to close their windows, the reduction in noise achieved, assuming standard glazing and trickle vents, would be approximately 23 dB. In this circumstance, if maximum noise levels did not regularly exceed 68 dB during the night, internal maximum noise levels would comply with BS8233 and WHO guidelines. The results shown in table 1 show that this was satisfied, even during the windy conditions, and so again, specific noise mitigation measures are not required.

As set out in Section 3.4, BS8233 suggests guidelines for noise levels in external spaces 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 of 55 dB LAeq,T, which would be acceptable in noisier environments"*. This guideline is also satisfied.



6. CONCLUSION

This report describes the level of noise which affects land proposed for residential use at Ellwood, Lundwood, Barnsley.

It demonstrates that no acoustic mitigation is required to protect future residents from noise.

Report Code: E/A/EH



A P P E N D I X A

Site location & measurement positions

House Type Schedule

18	201	Cork	2 bed semi-det
8	202	Kerry	2 bed semi-det
15	301	Tyone	3 bed semi-det
8	302	Galway	3 bed semi-det
14	303	Wicklow	3 bed semi-det
9	309	Fergus	3 bed detached
9	304	Kilkenny	3 bed detached
6	307	Kildare	3 bed detached
3	310	Liffey	3 bed detached
2	400	Stoneyford	4 bed detached
2	401	Longford	4 bed detached
2	403	Carlow	4 bed detached
1	404	Craven	4 bed detached
97			

Footpath links thro site

Indicative planting only

Existing trees, hedgerow and scrub

Existing trees, hedgerow and scrub, dead, felled or to be removed

E 20.03.14 Amended in line with CERA inspection and planning comments.
D 20.12.13 Layout amended in line with the boundary.
C 15.11.13 Amended generally following planning comments.
P02 A Key Area requested.
P03 A Key Area requested.
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ACER
architectural
Design & Planning Services

Gleeson Regeneration & Homes
Land at
Lundwood, Barnsley

SKETCH HOUSING LAYOUT

1313 03 01 rev E 1:500 @ A1
September 2013 DLM
The Well Garden, Branton Green,
Great Ouseburn, Newcastle, YO26 9RT
Email: mal@acerarchitectural.co.uk



Attended survey - measurement locations

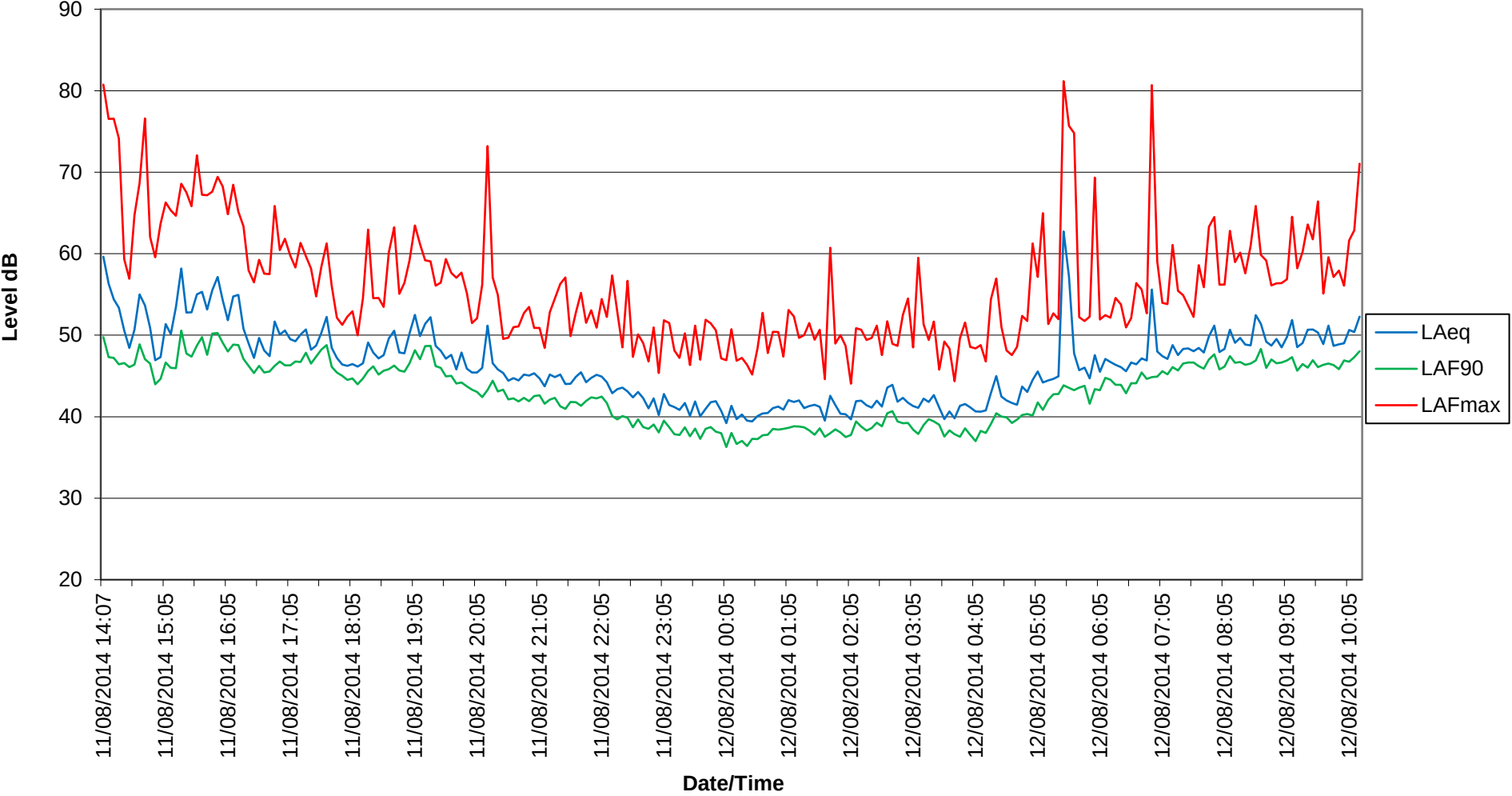
1. Do not scale off drawings used on site.
2. All measurements shall be taken from the specified information to be notified immediately.
3. Any discrepancy between drawn and measured shall be notified immediately.
4. If in doubt - ASK.
Layout based on Ordnance Survey information provided to the client. The client is responsible for ensuring that the external boundary to be checked against the Land Registry title plan prior to commencement on site and any discrepancies to be notified to ACER Architectural Limited.



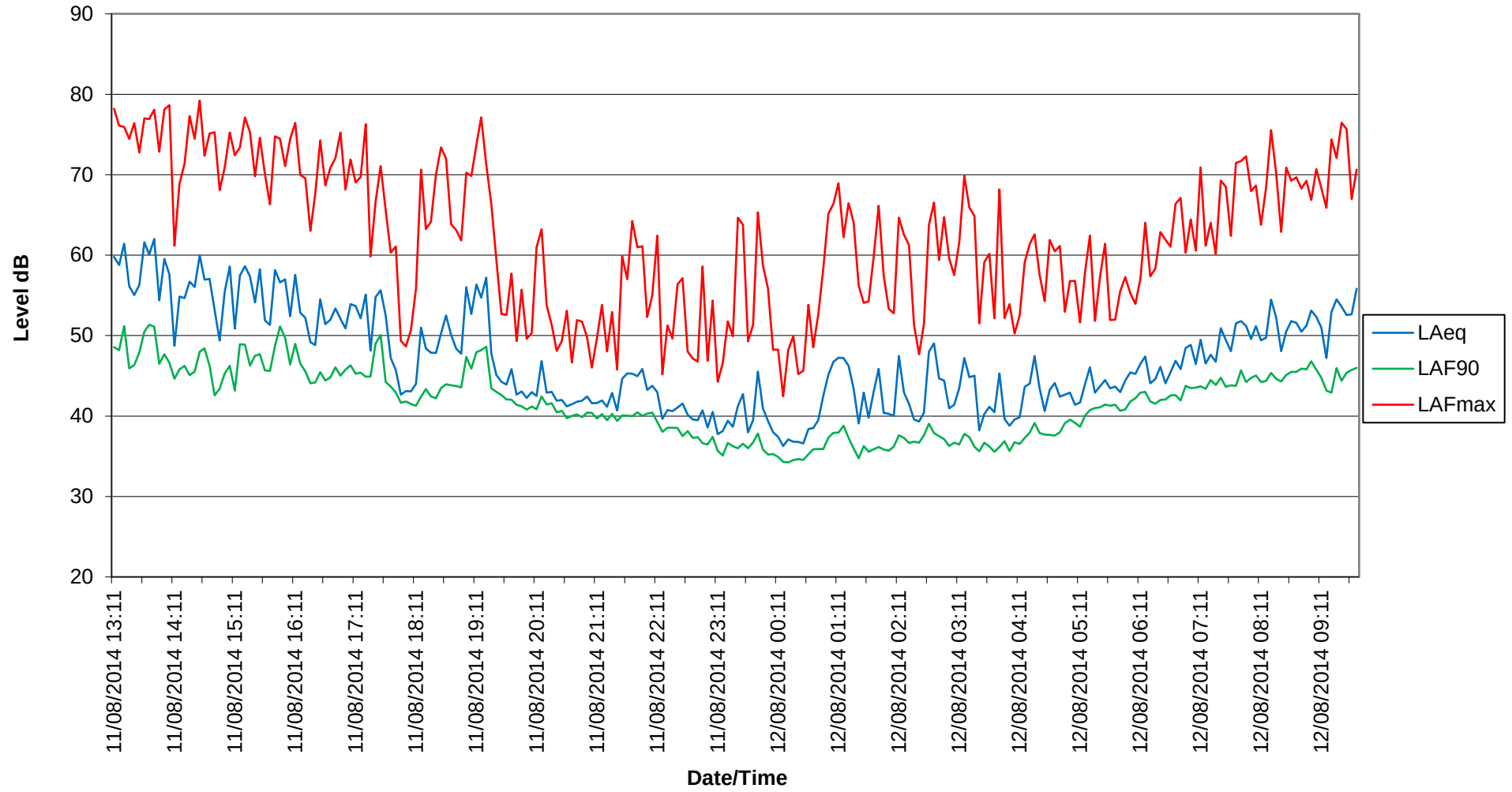
APPENDIX B

Measurement results

Noise Measurements Chart
Position 1



Noise Measurements Chart
Position 2





ENVIRONMENTAL NOISE RECORD SHEET

Sheet 1 of 2

RL27

Location: Position 1 – On south eastern boundary of site (rear of Plot 59/60)

Project: 14271 - Lundwood, Barnsley

Date: 15th August 2014

Instrumentation: Bruel & Kjaer 2260/6

Calibration Times: 10:00 13:45

Plant Operating Condition:

Date	Time		Weather			Noise Level dB(A)						Comments (Including description of noise (eg whine, hiss, rumble, impact, vehicle rain, vegetation, or animal noise)).
	Start	Dur'n (Min)	Wind Speed m/s	Wind Dir'n	Cloud (%)	L10	L50	L90	LMAX	LMIN	LAeq	
15/08/14	10:00	15	Slight	NE	50	49	46	44	72	42	47	Distant road traffic on A628, birdsong, distant aircraft, mechanical noise from Bromcliffe Park industrial estate, distant dogs barking.
15/08/14	10:47	15	Slight	NE	50	47	45	44	66	41	46	Distant road traffic on A628, birdsong, distant aircraft, mechanical noise from Bromcliffe Park industrial estate (some tonal noise), distant lawn mower.
15/08/14	11:30	15	Slight/gusts	NE	50	47	45	43	64	40	45	Occasional wind gusts, tree rustle, banging noise from residential, distant road traffic on A628, birdsong.
15/08/14	12:13	15	Slight	NE	60	47	43	41	67	39	46	Distant dogs barking, distant ice cream van, voices and motorbike engine on adjacent local roads, banging noise from residential, distant road traffic on A628, birdsong.
15/08/14	12:57	15	Gusts	NE	75	47	45	44	56	41	46	Distant road traffic on A628, birdsong, distant aircraft, distant dogs barking, tree rustle, power tools at residential.

Date	Time	LAeq (dB)	Linear Octave Band Pressure Level									Comments
			31	63	125	250	500	1k	2k	4k	8k	
15/08/14	10:00	47	59	56	49	48	44	43	39	32	27	Distant road traffic on A628, birdsong, distant aircraft, mechanical noise from Bromcliffe Park industrial estate, distant dogs barking.
15/08/14	10:47	46	58	57	50	45	43	42	36	31	30	Distant road traffic on A628, birdsong, distant aircraft, mechanical noise from Bromcliffe Park industrial estate (some tonal noise), distant lawn mower.
15/08/14	11:30	45	57	55	44	440	43	42	36	33	31	Occasional wind gusts, tree rustle, banging noise from residential, distant road traffic on A628, birdsong.
15/08/14	12:13	46	58	56	54	45	43	41	37	33	31	Distant dogs barking, distant ice cream van, voices and motorbike engine on adjacent local roads, banging noise from residential, distant road traffic on A628, birdsong.
15/08/14	12:57	46	59	55	45	40	43	42	36	30	25	Distant road traffic on A628, birdsong, distant aircraft, distant dogs barking, tree rustle, power tools at residential.



ENVIRONMENTAL NOISE RECORD SHEET

Sheet 2 of 2

RL27

Location: Position 2 – On northern boundary of site (adjacent to plot 41)

Project: 14271 - Lundwood, Barnsley

Date: 15th August 2014

Instrumentation: Bruel & Kjaer 2260/6

Calibration Times: 10:00 13:45

Plant Operating Condition:

Date	Time		Weather			Noise Level dB(A)						Comments (Including description of noise (eg whine, hiss, rumble, impact, vehicle rain, vegetation, or animal noise)).
	Start	Dur'n (Min)	Wind Speed m/s	Wind Dir'n	Cloud (%)	L10	L50	L90	LMAX	LMIN	LAeq	
15/08/14	10:21	15	Slight	NE	50	48	43	41	61	39	45	Distant road traffic on A628 and to north west, birdsong, distant aircraft, mechanical noise from Bromcliffe Park industrial estate, noise from warehouse at location 1, possibly generator, lasting 3 minutes. Distant sirens, distant dogs barking. Industrial noise from Bromcliffe Park just audible. Skip movement at Bromcliffe Park industrial estate, tile cutter at residential. Distant aircraft, power tools at residential, distant dogs barking. Distant dogs barking, birdsong, voices at residential, distant reverse alarms and general industrial noise at Bromcliffe Park industrial estate just audible.
15/08/14	11:08	15	Slight	NE	50	45	40	38	64	36	43	
15/08/14	11:52	15	Slight	NE	50	44	40	38	73	35	43	
15/08/14	12:35	15	Slight	NE	60	44	40	38	58	35	41	
15/08/14	13:16	15	Slight	NE	75	40	37	35	56	34	39	

Date	Time	LAeq (dB)	Linear Octave Band Pressure Level									Comments
			31	63	125	250	500	1k	2k	4k	8k	
15/08/14	10:21	45	56	55	46	42	42	41	36	30	28	Distant road traffic on A628 and to north west, birdsong, distant aircraft, mechanical noise from Bromcliffe Park industrial estate, noise from warehouse at location 1, possibly generator, lasting 3 minutes. Distant sirens, distant dogs barking. Industrial noise from Bromcliffe Park just audible. Skip movement at Bromcliffe Park industrial estate, tile cutter at residential. Distant aircraft, power tools at residential, distant dogs barking. Distant dogs barking, birdsong, voices at residential, distant reverse alarms and general industrial noise at Bromcliffe Park industrial estate just audible.
15/08/14	11:08	43	55	53	41	40	40	40	34	28	26	
15/08/14	11:52	43	56	53	45	38	38	38	36	32	29	
15/08/14	12:35	41	55	55	46	43	37	37	32	26	22	
15/08/14	13:16	39	54	52	41	39	36	34	28	24	22	



A P P E N D I X C

Correspondence with Barnsley Council

From: [Gardham , James](#)
To: [Mike McCabe](#); [Kirkham , Steve](#)
Cc: [Nick Treby](#); MSmith@mjgleeson.com
Subject: RE: Noise Measurements at Lundwood, Barnsley
Date: 13 August 2014 08:24:37

Mike

That sounds fine to me.

Regards

James

From: Mike McCabe [<mailto:MMcCabe@spectrumacoustic.com>]
Sent: 12 August 2014 16:57
To: Gardham , James; Kirkham , Steve
Cc: Nick Treby; MSmith@mjgleeson.com
Subject: RE: Noise Measurements at Lundwood, Barnsley

James,

I've spent the last couple of days on site and we were able to leave loggers. The noise levels we measured were pretty low (LAeq 55dB day reducing a little at night). However I am concerned that we've measured mainly wind noise as the site is exposed and noise levels from local roads are low.

What I intend to do is to return to site later in the week when the weather is much better, follow the shortened measurement procedure (3 hours during the day) and use this data to determine night time levels as suggested by BS8233 (reference 18 gives a method for doing this).

We will use this new data to put the report together, and it might show that the data we had from the last couple of days is fine. I don't expect noise levels in still conditions to be higher than I have already measured. Does that sound OK?

Kind regards

Mike McCabe
Acoustic Consultant

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Bedfordshire. SG18 0JE
Tel. +44 (0)1767 318871
DDI. **+44 (0)1767 603218**
Fax. +44 (0)1767 317704
<http://www.spectrumacoustic.com>

From: Gardham , James [<mailto:JamesGardham@barnsley.gov.uk>]
Sent: 06 August 2014 11:48
To: Kirkham , Steve; Mike McCabe
Subject: RE: Noise Measurements at Lundwood, Barnsley

Steve

Many thanks for the information. This seems a perfectly reasonable proposal to me and I look forward to receiving the noise report.

Best regards
James

James Gardham
Pollution Prevention & Control Officer
Regulatory Services
PO Box 602
Barnsley
S70 9FB
01226 772457

 Please consider the environment; do you need to print this email?

From: Kirkham , Steve
Sent: 05 August 2014 13:24
To: Gardham , James
Subject: FW: Noise Measurements at Lundwood, Barnsley

Hi James,

Would you be able to advise on this., can you copy me in on any response.

Cheers

From: Mike McCabe [<mailto:MMcCabe@spectrumacoustic.com>]
Sent: 01 August 2014 09:43
To: Kirkham , Steve
Cc: Nick Treby; Steven Gamble; MSmith@mjgleeson.com
Subject: Noise Measurements at Lundwood, Barnsley

Dear Steve,

I am intending to carry out a noise survey on behalf of our client Gleeson Regeneration and Homes as part of a planning application for a number of residential properties, in accordance with the request by yourselves at the planning authority. The site in question lies to the west of the A628 Pontefract Road in Lundwood, Barnsley (a site plan is attached). I understand you've had some pre-app discussions with Steven Gamble of Gleeson regarding this. We are planning to take measurements over a 24 hour period from the 11-12th August. What follows is a brief outline of what I intend to measure and where, and I was hoping you could forward this e-mail to the relevant person in Environmental Health to ensure this is satisfactorily in accordance with their recommendations for this type of survey.

If I can find suitable discrete/secure locations, I will set up two noise loggers to measure continuously for a 24-hour period, with one on the south east boundary of the site at a position representative of the nearest proposed residence to the A628 Pontefract Road and another on the north west boundary of the site at a position representative of a proposed residence further from the A628 and nearest to potential noise from the industrial estate further to the north west on Broomcliffe Park. These measurements would be supplemented with attended measurements at a position representative of the nearest proposed residence to the existing warehouse on Wilson Grove.

If I'm not able to find suitable locations, I will instead carry out attended measurements at four positions around the site boundary in order to capture different noise conditions across the site. I will use the shortened measurement procedure of CRTN to calculate the LAeq,16hr, so will measure for a 3-hour period for daytime levels. To assess the night condition, I'll measure on site between about 10 pm and midnight, then again between about 0600 and 0700, as usually this 0600-0700 period dictates the night time LAeq.

I'll carry out my assessment against the criteria of WHO and BS8233:2014 (the 1999 standard was superseded in February this year).

Please let me know if you have any comments or questions regarding the planned survey.

Kind regards

Mike McCabe
Acoustic Consultant

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