

ROSCOMMON COUNTY COUNCIL

PLANNING AND DEVELOPMENT ACT 2000 (as amended)

SECTION 5 - DECLARATION ON DEVELOPMENT AND EXEMPTED DEVELOPMENT

CHIEF EXECUTIVE'S ORDER

Order No:

PL 11202/26

Reference Number:

DED1070

Name of Applicant (s):

Aurivo Co-Operative Society Limited, (Aurivo Animal Feeds)

Agent:

Malone O'Regan Consulting Engineers, 3-4 Canada Street, Waterford, X91 V52K.

WHEREAS a question has arisen as to whether the proposed installation of a self-contained, containerized 2500kVA generator, fuelled by 100% hydrotreated vegetable oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, F45 K193, is or is not development and is or is not exempted development:

AND WHEREAS Roscommon County Council, in considering this application, had regard particularly to:

- (a) Section 2(1) of the Planning and Development Act, 2000, as amended,
- (b) Section 3(1) of the Planning and Development Act, 2000,
- (c) Section 4(1)(a) of the Planning and Development Act, 2000, as amended,
- (d) Article 6(1) and Article 9(1) of the Planning and Development Regulations, 2001, as amended,
- (e) Class 21 of Part 1 of Schedule 2 to the Planning and Development
- (f) Regulations, 2001, as amended, the planning history of the site, and
- (g) the pattern of development on the site

AND WHEREAS Roscommon County Council has concluded that:

- (a) The works are development, which would be used in conjunction with the referrer's existing dairy processing facility.
- (b) The subject structure would be sited on land occupied and used by an industrial undertaker for the carrying on, and for the purposes of, any industrial process.
- (c) The subject structure would be a "*a structure of the nature of plant or machinery*", as it would merger with and be integral to the plant and machinery that it supports.
- (d) The proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the requirement for AA or EIAR does not apply with respect to the current case.
- (e) Consequently, the subject structure, **is development, which is exempted development** under Class 21 of Part 1 of Schedule 2 to the Planning and Development Regulations, 2001, as amended.

NOW THEREFORE:

By virtue of the powers vested in me by the Local Government Acts 1925 – 2024 and Section 5(2)(a) of the Planning and Development Act 2000 (as amended) and having considered the various submissions and reports in connection with the application described above, it is hereby declared that the said development for the proposed installation of a self-contained, containerized 2500kVA generator, fuelled by 100% hydrotreated vegetable oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, F45 K193, is development that is **exempted development** as defined within the Planning and Development Act 2000 (as amended) and associated Regulations.

Signed on behalf of the Council:

Signed: 

Alan O'Connell,
Senior Executive Planner,
Planning.

Date: 28 September 2026

Gemma Cunningham

From: Gemma Cunningham
Sent: Tuesday 29 September 2026 13:14
To: waterford@morce.ie
Cc: nutrias@aurivo.ie
Subject: Notification of Determination for DED1070
Attachments: DED1070 Notification of Decision.pdf

A Chara,

Please find attached correspondence for your attention regarding DED1070. Please be advised also hardcopy of the attached has been sent to the applicant via registered post.

Kind Regards,

Gemma Cunningham | Clerical Officer

Áras an Chontae, Roscommon, Co. Roscommon. F42 VR98

☎ (090) 664 7420 ✉ GCunningham@roscommoncoco.ie

🌐 www.roscommoncoco.ie



Comhairle Contae
Ros Comáin
Roscommon
County Council



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ROSCOMMON COUNTY COUNCIL
PLANNING AND DEVELOPMENT ACT, 2000 (as amended)
SECTION 5 - DECLARATION ON DEVELOPMENT AND EXEMPTED DEVELOPMENT
NOTIFICATION OF DETERMINATION

REGISTERED POST

Aurivo Co-Operative Society Limited,
(Aurivo Animal Feeds)
Ballaghaderreen,
Co. Roscommon.

Reference Number: DED1070

Application Received: 13th August 2026

Name of Applicant: Aurivo Co-Operative Society Limited, (Aurivo Animal Feeds)

Agent: Malone O'Regan Consulting Engineers, 3-4 Canada Street, Waterford,
X91 V52K.

WHEREAS a question has arisen as to whether the proposed installation of a self-contained, containerized 2500kVA generator, fuelled by 100% hydrotreated vegetable oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, F45 K193, is or is not development and is or is not exempted development.

AND WHEREAS Roscommon County Council, in considering this application, had regard particularly to:

- (a) Section 2(1) of the Planning and Development Act, 2000, as amended,
- (b) Section 3(1) of the Planning and Development Act, 2000,
- (c) Section 4(1)(a) of the Planning and Development Act, 2000, as amended,
- (d) Article 6(1) and Article 9(1) of the Planning and Development Regulations, 2001, as amended,
- (e) Class 21 of Part 1 of Schedule 2 to the Planning and Development Regulations, 2001, as amended,
- (f) the planning history of the site, and
- (g) the pattern of development on the site

AND WHEREAS Roscommon County Council has concluded that:

- (a) The works are development, which would be used in conjunction with the referrer's existing dairy processing facility.
- (b) The subject structure would be sited on land occupied and used by an industrial undertaker for the carrying on, and for the purposes of, any industrial process.
- (c) The subject structure would be a "*a structure of the nature of plant or machinery*", as it would merge with and be integral to the plant and machinery that it supports.
- (d) The proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the requirement for AA or EIAR does not apply with respect to the current case.
- (e) Consequently, the subject structure, is **development, which is exempted development** under Class 21 of Part 1 of Schedule 2 to the Planning and Development Regulations, 2001, as amended.

NOW THEREFORE:

By virtue of the powers vested in me by the Local Government Acts 1925 – 2024 and Section 5(2)(a) of the Planning and Development Act 2000 (as amended) and having considered the various submissions and reports in connection with the application described above, it is hereby declared that the said development for the proposed installation of a self-contained, containerized 2500kVA generator, fuelled by 100% hydrotreated vegetable oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, F45 K193, is development that is **exempted development** as defined within the Planning and Development Act 2000 (as amended) and associated Regulations.

Signed on behalf of the Council:



Mervyn Walsh,
Administrative Officer,
Planning.

Date: 29th September 2026

c.c. Malone O'Regan Consulting Engineers
waterford@morce.ie

ADVICE NOTE

Any person issued with a Declaration under Section 5 of the Planning and Development Act, 2000 (as amended) may, on payment to An Coimisiún Pleanála of the prescribed fee, refer a Declaration for review within 4 weeks of the date of the issuing of the Declaration.

ADVICE NOTE

This Declaration is based on the relevant Planning and Development Act 2000 (as amended) and the Planning and Development Regulations 2001 (as amended) at the date of issue. In the event that the Planning and Development Act 2000 (as amended) or the Planning and Development Regulations 2001 (as amended) change prior to the works being carried out this Declaration may no longer apply.

Planner's Report on application under Section 5 of the Planning and Development Acts 2000 (as amended)

Reference Number: DED 1070

Re: Application for a Declaration under Section 5 of the Planning & Development Act, 2000, as amended, regarding whether the proposed installation of a self-contained containerized 2500k VA generator fuelled by a 100% Hydrogenated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, is or is not development and is or is not exempted development.

Applicants: Aurivo Co-Operative Society Limited.

Date: 23rd September 2026

WHEREAS a question has arisen as whether the proposed installation of a self-contained containerized 2500k VA generator fuelled by a 100% Hydrogenated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, is or is not development and is or is not exempted development.

I have considered this question, and I have had regard particularly to –

- (a) Sections 2, 3, 4 and 5 of the Planning and Development Act, 2000, as amended
- (b) The record forwarded to Roscommon County Council in accordance with subsection (6)(c) of Section 5 of the Planning and Development Act, 2000, as amended
- (c) The planning history of the site

Site Location & Development Description

The subject property is located on the outer environs of Ballaghaderreen, towards the south-east of the town centre, and is accessed directly off the N5 within the 60km speed limit. The site comprises of the long established existing agricultural industry related commercial enterprise. The site forms part of lands zoned *Strategic Industrial / Enterprise Zones* as set out in the current Ballaghaderreen Settlement Plan in the Roscommon County Development Plan 2022-2028.

The development is described as a proposed installation of a self-contained containerized 2500k VA generator fuelled by a 100% Hydrogenated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system. The proposal would be located at the southwest and proximate to the established industrial buildings at the Aurivo (Animal Feeds). There are no residential dwellings proximate to the site.

Basic desktop research indicates that the proposed sized installation, in order to visualize its capacity in laymans terms, would, for example, simultaneously run:

- 2,000 high-performance desktop computers.
- 130 to 150 industrial central air conditioning units (approx. 5 tons each).
- 400 typical residential homes under average load conditions during a blackout.

Therefore, the proposal is of industrial capacity.

Archaeological and Cultural Heritage

No RMP recorded in the likely zone of influence of the proposed development. No Protected structures or structures listed in the National Inventory of Architectural Heritage are within the likely zone of influence of the proposed development.

Planning History – Subject Site

As per the Roscommon County Council's Planning Registry, the following recent planning history has been traced:

PD 01/1426 Planning Permission granted for alterations to existing site entrance/exit onto the N5, relocated boundary fence including all ancillary works, extend existing car park, construct new container parking and provision of new road signage and building signage, subject to 12 No conditions.

PD 02/666 Planning permission granted for the construction of office at site of the feed mill, subject to 6 No conditions.

PD 06/1472 Planning permission to construct a new bulk outloading bay including associated site works on existing feeding mill subject to 10 No conditions.

PD 07/1129 Planning permission to construct a new single storey extension of 601 sq. m. floor area and 12m high to an existing ingredient store and new single storey feed store 1485 sq. m. and 8.5 m high and for the retention of 30 car parking spaces and 15 truck parking spaces on the existing feed mill site, granted subject to 8 No conditions.

PD 13/138 Planning permission to construct extension to an existing office building together with all ancillary site works and services, granted subject to 5 No conditions.

PD 18/130 Planning permission for demolition of a single storey building construction of extension to the existing animal feed mill building and all ancillary site works and services, granted subject to 10 No conditions.

PD 20/540 Planning permission for the construction of an extension to the existing animal feed mill building and all ancillary site works and services, granted subject to 13 conditions

Statutory Provisions

Planning and Development Act, 2000 (As Amended)

Section 2 (Works) Works includes any act or operation of construction, excavation, demolition, extension, alteration, repair or renewal and, in relation to a protected structure or proposed protected structure, includes any act or operation involving the application or removal of plaster, paint, wallpaper, tiles or other material to or from the surfaces of the interior or exterior of a structure.

Section 3(1) (Development) Development means, except where the context otherwise requires, the carrying out of any works on, in, over or under land or the making of any material change in the use of any structures or other land.

Section 4(1) (Exempted Development) The following shall be exempted developments for the purposes of this Act: (h) development consisting of the carrying out of works for the maintenance, improvement or other alteration of any structure, being works which affect only the interior of the structure or which do not materially affect the external appearance of the structure so as to render the appearance inconsistent with the character of the structure or of neighbouring structures;

Section 4 (4) (Environmental Impact Assessment or Appropriate Assessment)

Notwithstanding paragraphs (a), (i), (ia) and (l) of subsection (1) and any regulations under subsection (2), development shall not be exempted development if an environmental impact assessment or an appropriate assessment of the development is required.

Planning and Development Regulations, 2001 (as amended)

Article 6 (1) states the following: Subject to Article 9 the development of a Class specified in Column 1 of Part 1 of Schedule 2 shall be exempted development for the purposes of the Act, provided that such development complies with conditions and limitations specified in Column 2 of the Act opposite the mention of that Class in the said Column 1.

Article 9 (1)(a) provides that development to which Article 6 relates shall not be exempted development for the purposes of the Act, if the carrying out of such development would, contravene a condition attached to a permission under the Act or be inconsistent with any use specified in a permission under the Act. (viii) consist of or comprise the extension, alteration, repair or renewal of an unauthorised structure or a structure the use of which is an unauthorised use, (viiB) comprise development in relation to which a planning authority or An Bord Pleanála as the competent authority in relation to appropriate assessment and the development would require an appropriate assessment because it would be likely to have a significant effect on the integrity of a European site.

Schedule 2, Part 1, Class 21, Colum 1

(a) Development of the following descriptions, carried out by an industrial undertaker on land occupied and used by such undertaker for the carrying on, and for the purposes of, any industrial process, or on land used as a dock, harbour or quay for the purposes of any industrial undertaking—

(i) the provision, rearrangement, replacement or maintenance of private ways or private railways, sidings or conveyors,

(ii) the provision, rearrangement, replacement or maintenance of sewers, mains, pipes, cables or other apparatus,

(iii) the installation or erection by way of addition or replacement of plant or machinery, or structures of the nature of plant or machinery.

(b) Any works for the provision within the curtilage of an industrial building of a hard surface to be used for the purposes of or in connection with the industrial process carried on in the building.

Class 21 Colum 2, Conditions and Limitations

1. *Any such development shall not materially alter the external appearance of the premises of the undertaking.*
2. *The height of any plant or machinery, or any structure in the nature of plant or machinery, shall not exceed 15 metres above ground level or the height of the plant, machinery or structure replaced, whichever is the greater.*

Definitions Under Article 5(1) of the Regulations

"industrial process" means any process which is carried on in the course of trade or business, other than agriculture, and which is –

for or incidental to the making of any article or part of an article, or for or incidental to the altering, repairing, ornamenting, finishing, cleaning, washing, packing, canning, adapting for sale, breaking up or demolition of any article, including the getting, dressing or treatment of minerals,

Definition of 'industrial undertaker'.

"industrial undertaker" means *a person by whom an industrial process is carried on and "industrial undertaking" shall be construed accordingly.*

Assessment:

I have examined all the documentation on the file, inspected the site, and have had regard to the legislative provisions set out in both the Planning and Development Act, 2000, as amended, and the Planning and Development Regulations, 2001, as amended. I consider that the issues relevant to the subject request for an opinion can be assessed under the following headings:

- Whether the proposed installation of a self-contained containerized 2500k VA generator fueled by a 100% Hydrogenated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system is or is not development, or is or is not exempted development.
- Whether the works can be considered exempted development under the provisions of Section 4(1)(h) of the Planning and Development Act, 2000, as amended.

Is or is not development

'Works' are defined as including 'any act or operation of construction, excavation, demolition, extension, alteration, repair or renewal'.

The subject of the request for an opinion consists of the proposed installation of a self-contained containerized 2500k VA generator fueled by a 100% Hydrogenated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system.

I consider the said description to comprise 'works' as the installation includes an act of construction and alteration. In accordance with Section 3(1) of the Planning and Development Act, 2000 as amended, 'works' become development when they are carried out on, in, over or under land and therefore the works which are the subject of this request for an opinion are considered to comprise 'development'.

Is or is not exempted development

Section 4 of the Planning and Development Act, 2000, as amended, sets out certain forms of development which shall be exempted development. Additionally, Schedule 2 of the Planning and Development Regulations, 2001, as amended, set out forms of development, which are exempted development within a specific context.

The specific class which is of relevance under this question is Class 21 of Schedule 2, which refers to development, carried out by an industrial undertaker on land occupied and used by such undertaker for the carrying on, and for the purposes of, any industrial process.

Based on the information on the file, my site visit and the extensive planning history related to the site, it is deemed that the existing premises is an '*industrial building*' and carries out '*industrial processes*', having regard to the meanings set out in Article 5(1) of the Planning and Development Regulations 2001 (as amended). Furthermore, the planning authority is satisfied that the developer is in fact '*an industrial undertaker*'.

Accordingly, the planning authority is satisfied that the development falls within the remit of Class 21, which states the following:

- (a) Development of the following descriptions, carried out by an industrial undertaker on land occupied and used by such undertaker for the carrying on, and for the purposes of, any industrial process, or on land used as a dock, harbour or quay for the purposes of any industrial undertaking—*
 - (i) the provision, rearrangement, replacement or maintenance of private ways or private railways, sidings or conveyors,*
 - (ii) the provision, rearrangement, replacement or maintenance of sewers, mains, pipes, cables or other apparatus,*
 - (iii) the installation or erection by way of addition or replacement of plant or machinery, or structures of the nature of plant or machinery.*
- (b) Any works for the provision within the curtilage of an industrial building of a hard surface to be used for the purposes of or in connection with the industrial process carried on in the building.*

The planning authority is satisfied that the proposed development falls under Class 21 (iii), as follows:

- (iii) the installation or erection by way of addition or replacement of plant or machinery, or structures of the nature of plant or machinery.*

Common definitions of the term 'plant and machinery' provide that plant and machinery for tax purposes are assets that are used by a business for the purpose of carrying on the business and are not stock in trade, the business premises, or part of the business premises. (The difference between plant and machinery is that generally machinery will have moving working parts, and plant will not). (Reference ABP-318300-23).

The planning authority is also of the view that the containerised nature of the structure, which is to hold/house plant and machinery, should not be disassociated from the 'Use' within the container, which in this instance, is to house plant and machinery, which is part of an integral 'industrial process' associated

with the established industrial use of the overall land. An Commisiun Pleanala has previously found that a container itself, *per se*, does not fall under Class 21 (iii) (ABP-321246-24). However, in this instance, the planning authority is of the viewpoint that the industrial process to be carried out within the containerised unit, renders it, to be a structure *'of the nature of plant and machinery'*.

Class 21, Conditions & Limitations.

Under Class 21, the conditions and limitations have two items, which need to be satisfied in order to provide that the development is development that is exempt development, which are stated as follows:

1. *Any such development shall not materially alter the external appearance of the premises of the undertaking.*
2. *The height of any plant or machinery, or any structure in the nature of plant or machinery, shall not exceed 15 metres above ground level or the height of the plant, machinery or structure replaced, whichever is the greater.*

Class 21, Conditions & Limitations, Item 1.

Having assessed the plans/details submitted in the context of the overall development of the land, it is considered that the proposed self-contained containerized 2500k VA generator fueled by a 100% Hydrogenated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system, would not 'materially alter' the external appearance of the premises.

Class 21, Conditions & Limitations, item No 2

Having examined the submitted documentation, it is considered that the proposal is just under 8 m high therefore it does not exceed Conditions & Limitations, Item No 2.

Having regard to the above, the planning authority is of the viewpoint, that the subject proposal is development, that is exempted development, therefore it is necessary to consider restrictions on exempted development.

Restrictions on exempted development

I note that the restrictions provided in Article 9 of the Planning and Development Regulations, 2001, as amended, relates to exemptions provided under Article 6 of the Planning and Development Regulations, 2001, as amended. In the subject case there are no apparent restrictions on exempted development.

Environmental Impact Assessment and Appropriate Assessment

Section 4(4) of the Planning and Development Act sets out that development shall not be exempted development if an environmental impact assessment or an appropriate assessment of the development is required.

EIA

The development described does not fall within a class of development set out in Part 1 or Part 2 of Schedule 5 of the Planning and Development Regulations, 2001, as amended, and therefore is not subject to EIA requirements.

AA Screening

The closest European sites to the site of the development Tullaghanrock Bog SAC – circa 2.2km from the subject site.

Within designated site(s): No

Adjacent to designated sites(s): No

Having regard to the separation distance between the site and the closest Natura 2000 site and the nature of the proposal, there is no real likelihood of significant effects on the conservation objectives of this or other European sites arising from the proposed development. The need for stage 2 Appropriate Assessment screening can, therefore, be excluded.

AA Conclusion:

Having regard to the separation distance between the site and the closest Natura 2000 site and the nature of the development, there is no real likelihood of significant effects on the conservation objectives of these or other European sites arising from the proposed development. The need for further Appropriate Assessment can therefore, be excluded.

In this context, I am satisfied that no Appropriate Assessment issues arise and it is not considered that the proposed development would be likely to have a significant effect individually or in combination with other plans or projects on a European site.

Recommendation

WHEREAS a question has arisen as to whether the proposed installation of a self-contained containerized 2500k VA generator fuelled by a 100% Hydrogenated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghadereen, Co. Roscommon, **is or is not development and is or is not exempted development.**

I have considered this question, and I have had regard particularly to –

- (a) Section 2(1) of the Planning and Development Act, 2000, as amended,
- (b) Section 3(1) of the Planning and Development Act, 2000,
- (c) Section 4(1)(a) of the Planning and Development Act, 2000, as amended,
- (d) Article 6(1) and Article 9(1) of the Planning and Development Regulations, 2001, as amended,
- (e) Class 21 of Part 1 of Schedule 2 to the Planning and Development Regulations, 2001, as amended,
- (f) the planning history of the site, and
- (g) the pattern of development on the site:

AND WHEREAS I have concluded that

- a) The works are development, which would be used in conjunction with the referrer's existing dairy processing facility.
- b) The subject structure would be sited on land occupied and used by an industrial undertaker for the carrying on, and for the purposes of, any industrial process.
- c) The subject structure would be a "*a structure of the nature of plant or machinery*", as it would merger with and be integral to the plant and machinery that it supports.
- d) The proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the requirement for AA or EIAR does not apply with respect to the current case.
- e) Consequently, the subject structure, **is development, which is exempted development** under Class 21 of Part 1 of Schedule 2 to the Planning and Development Regulations, 2001, as amended.

I therefore recommend that a declaration to that effect should be issued to the applicant.



Signed:

A. Cunnane
Assistant Planner

Date: 28th September 2026

Recommendation of Co-Signing Planner

Having considered the details submitted, I agree with the recommendation made above and therefore recommend that a declaration as above be issued.



Signed: _____

**Alan O'Connell,
Senior Executive Planner**

Date: 28th September 2026



Figure 1 overall site entrance

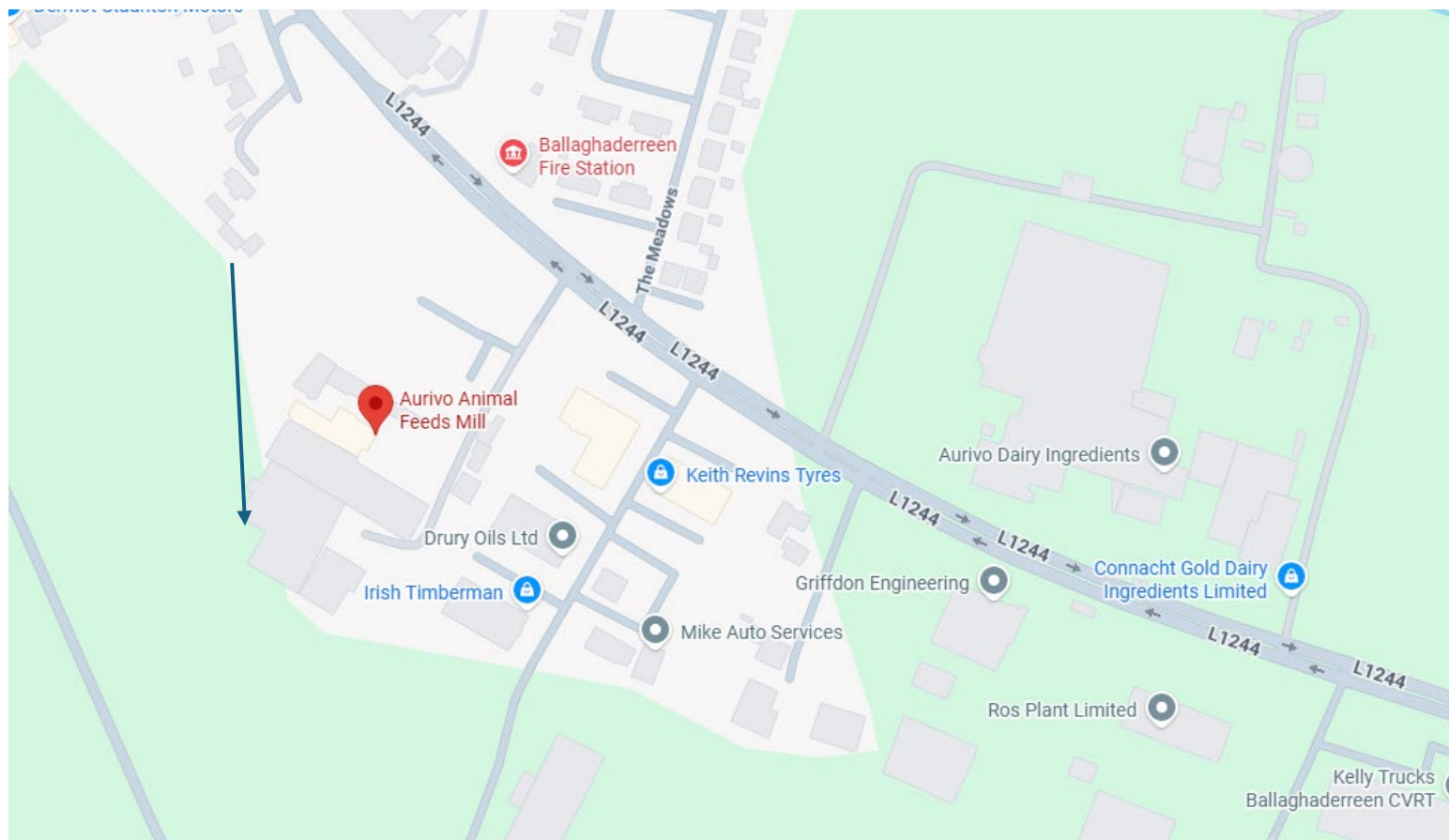


Figure 2 Location of proposed generator on the Aurivo (Animal Feeds) site



Figure 3 Location of proposal within overall industrial site

Gemma Cunningham

From: Gemma Cunningham
Sent: Thursday 10 September 2026 12:25
To: 'waterford@morce.ie'
Cc: 'nutrias@aurivo.ie'
Subject: DED1070 - Section 5 Declaration of Exempted Development Application
Attachments: DED1070 Ack & Fee Receipt.pdf

A Chara,

Please find attached Acknowledgement letter and Receipt for the Section 5 Declaration of Exempted Development Application Submitted on behalf of Aurivo Co-Operative Society Limited, DED1070 is the reference for this application.

Kind Regards,

Gemma

Gemma Cunningham | Clerical Officer

Áras an Chontae, Roscommon, Co. Roscommon. F42 VR98

☎ (090) 664 7420 ✉ GCunningham@roscommoncoco.ie

🌐 www.roscommoncoco.ie



Comhairle Contae
Ros Comáin
Roscommon
County Council



Please note that I may be sending this email outside your working hours and I do not expect a response or action outside your own working hours

MEMORANDUM

To: North Roscommon Area.

From: Mervyn Walsh, Administrative Officer, Planning Department.

Date: 09th September 2026

Re: Application for a Declaration under Section 5 of the Planning & Development Act 2000 (as amended), regarding Exempted Development.

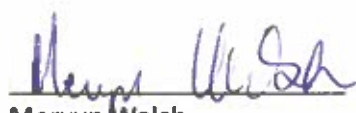
Development: WHEREAS a question has arisen as to whether the proposed installation of a self-contained, containerized 2500kVA generator, fuelled by 100% hydrotreated vegetable oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, F45 K193, is or is not development and is or is not exempted development

Applicant: Aurivo Co-Operative Society Limited,

Planning Ref: DED1070

Attached, please find an application for a Declaration under Section 5 of the Planning & Development Act 2000 (as amended) regarding Exempted Development from **Aurivo Dairy Ingredients** for the said development above, which was received on 13th August 2026.

Please let me have your recommendation.



Mervyn Walsh,
Administrative Officer,
Planning Department.



Comhairle Contae
Ros Comain
Roscommon
County Council



Aurivo Co-Operative Society Limited,
(Aurivo Animal Feeds)
Ballaghaderreen,
Co. Roscommon.

Date: 09th September 2026
Planning Reference: DED1070

Re: Application for a Declaration under Section 5 of the Planning & Development Act 2000
(as amended), regarding Exempted Development.

Development: WHEREAS a question has arisen as to whether the proposed installation of a self-contained, containerized 2500kVA generator, fuelled by 100% hydrotreated vegetable oil and fitted with a selective catalytic reduction emission abatement system at Aurivo, Dublin Road, Ballaghaderreen, Co. Roscommon, F45 K193, is or is not development and is or is not exempted development.

A Chara,

I wish to acknowledge receipt of your application which was received on the **13th August 2026**, for a Declaration under Section 5 of the Planning & Development Act 2000 (as amended), regarding Exempted Development along with the appropriate fee in the sum of **€80.00, Receipt No. L01/0/2242133 dated 25th August 2026**, receipt enclosed herewith.

Note: Please note your Planning Reference No. is **DED1070**
This should be quoted in all correspondence and telephone queries.

Mise le meas,

Mervyn Walsh,
Administrative Officer,
Planning Department.

cc agent via email: waterford@morce.ie
Malone O'Regan Consulting Engineers, 3-4 Canada Street, Waterford, X91 V52K.

Roscommon County Council
Aras an Chontae
Roscommon
09066 37100

25/08/2026 14:50:25

Receipt No. : L01/0/242133

AURIVO COOPERATIVE SOCIETY LTD
C/O MALONE O REGAN
3-4 CANADA ST
WATERFORD

EXEMPTED DEVELOPMENT

PLANNING APPLICATION FEES	80.00
GOODS	80.00
VAT Exempt/Non-vatable	
DED1070	

Total : 80.00 EUR

Tendered :
Credit/Debit Card 80.00
2296

Change : 0.00

Issued By : Louis Carroll
From : Central Cash Office



Comhairle Contae
Ros Comáin
Roscommon
County Council



Áras an Chontae,
Roscommon,
Co. Roscommon.

Phone: (090) 6637100

Email: planning@roscommoncoco.ie

Roscommon County Council

Application for a Declaration under Section 5 of the Planning & Development Act 2000 (as amended), regarding Exempted Development

Name of Applicant(s)	Aurivo Co-Operative Society Limited Ballaghaderreen, Co. Roscommon
Name of Agent	Malone O'Regan Consulting Engineers 3-4 Canada Street, Waterford, X91 V52K Co. Waterford
Nature of Proposed Works	The proposed installation of a self contained, containerized 2500kVA generator, fueled by 100% Hydrotreated Vegetable Oil and fitted with a selective catalytic reduction emission abatement system
Location & Address of Subject Property to include, Eircode (where applicable), Townland & O.S No.	Aurivo, Dublin Road,Ballaghaderreen Co. Roscommon, F45 K193 OS Map 1917-A, 1917-B
Floor Area: a) Existing Structure b) Proposed Structure	a) 6470m ² _____ b) 112m ² _____
Height above ground level:	Max Existing Structure - 30.69m Proposed - 6.19m
Total area of private open space remaining after completion of this development	Existing Site - 42215.8m ² (4.222Ha) Existing Coverage - 15.32% Proposed Coverage - 15.59%
Roofing Material (Slates, Tiles, other) (Specify)	n/a - containerized Unit

Roscommon County Council

Application for a Declaration under Section 5 of the



Proposed external walling (plaster, stonework, brick or other finish, giving colour)	n/a - containerized Unit with Paladin Fence surround
Is proposed works located at front/rear/side of existing house.	To the rear of the site
Has an application been made previously for this site	yes
If yes give ref. number (include full details of existing extension, if any)	Ref 20540 - for the construction of an extension to the existing animal feed mill building
Existing use of land or structure	Strategic Industrial
Proposed use of land or structure	Strategic Industrial
Distance of proposed building line from edge of roadway	196m
Does the proposed development involve the provision of a piped water supply	no
Does the proposed development involve the provision of sanitary facilities	no

Planning & Development Act 2000 (as amended), regarding Exempted Development

Signature: _____

Date: _____

13.08.2026

Note: This application must be accompanied by: -

- (a) €80 fee
- (b) Site Location map to a scale of 1:2500 clearly identifying the location
- (c) Site Layout plan to the scale of 1:500 indicating exact location of proposed development
- (d) Detailed specification of development proposed



AURIVO AGRIBUSINESS

Aurivo Animal Feeds
Ballaghaderreen
Co Roscommon
F45 K193
10th August 2026

Planning Department
Roscommon County Council
Áras an Chontae
Main St
Roscommon
F42 VR98
Co. Roscommon

Re: Request for a Declaration under Section 5 of the Planning and Development Act 2000 (as amended) — Installation of a Containerized Standby/Flexible Generator at Aurivo Animal Feeds, Ballaghaderreen Co. Roscommon

To Whom It May Concern:

I Orla O'Brien give permission to Malone O'Regan Consulting Engineers on behalf of Aurivo Co- Operative Society Ltd. to act as our Agent for the purpose of lodging the section 5 application for the proposed installation of a containerized standby/flexible generator to the existing Mill building at Lung, Ballaghaderreen, Co. Roscommon.

Signed,

Orla O'Brien

Environmental, Health and Safety Specialist

Health and Safety:

THE DRAWING IS ISSUED IN CONNECTION WITH AN OTHER DRAWING OR DRAWINGS, THE INTENTION AND THE SAFETY AND HEALTH PLAN.

THE RESPONSIBILITY OF THE PROJECT SUPERVISOR DESIGN IS TO ENSURE THAT THE PROJECT SUPERVISOR DESIGN IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SUPERVISOR DESIGN AND TO ENSURE THAT THE PROJECT SUPERVISOR DESIGN IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SUPERVISOR DESIGN.

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6. THE PROJECT SUPERVISOR DESIGN IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MALONE OREGAN CONSULTING ENGINEERS.

LEGEND:

OUTLINE OF LAND OWNERSHIP DENOTED THUS:

OUTLINE OF SITE BOUNDARY 1510.10m² (0.3722 Hectare) DENOTED THUS:

COMMON COUNTY COUNCIL
13 AUG 2026
PLANNING SECTION

P3 - ISSUED FOR PLANNING

ADR
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Fax: +353 1 454 4445
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www.analogue.com

SITE LOCATION MAP 1:10000

W28000-1 0 PR 1:10000 A3
W28000-1-XX-XXX-DR-MOR-CE-01000

Record PLACE Map

Surveyed 1837-1838
Revised 1911-1914
Levelled 1915

ITM CENTRE PT COORDS
562222.794380

DESCRIPTION

MAP SHEET IS

6 inch
MO0744-08 RN008
RN014 SO046

LOCATION OF
SITE NOTICE

SITE BOUNDARY
OUTLINED IN RED

LANDS OWNED BY
CLIENT OUTLINED
IN BLUE

Scale: 1:10,560
Scale: 1:10,560

0 200 400 600 800 1,000 Metres
0 500 1,000 1,500 2,000 2,500 Feet

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OF ORDNANCE SURVEY OF IRELAND
UNDER LICENCE NO. CYAL50510798
FOR MALONE OREGAN

SHEET 1 OF 1

$\theta = 0$ and $\theta = \pi$

For a full and complete understanding of the subject, the reader is referred to the original source.

THIS DRAWING TO BE READ IN CONNECTION WITH ALL OTHER RELEVANT PAPERS, THE SPECIFICATION AND THE SURVEY AND MAPS TO PLAN.

THE APPOINTMENT OF THE INSTANT SUPERVISOR DESIGN PROCESS IS THE CLIENT'S RESPONSIBILITY

TEMPORARY WORKS PROPOSAL AND THEO
 IT'S SUBJECTS TO BE SUBMITTED TO
 AND THE PRICE FOR WORKING WAC-
 NANTOULAR NISSE

11

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LEGEND:

OUTLINE OF LAND
OWNERSHIP DENOTED
THUS:

OUTLINE OF SITE
BOUNDARY 1510.10m²
(0.1510Ha)
(0.3732 Acres)
~~DEDICATED TRAIL~~



P3 - ISSUED FOR PLANNING

ADP
MAIONE O'REGAN
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OFFICE: 404-391-1111
 FAX: 404-391-1112
 E-MAIL: info@animalfeed.com
 WEBSITE: www.animalfeed.com

AURIVO DRAINAGE UPGRADE

SITE LOCATION MAP 1:2500

Job No.	Revision	Date	Sheet
W29000-1	0	2/1/2008	A
Fig. No.			
W29000-1-XX-XXX-DR-MOR-CE-01001			

Urban/Rural PLACE Map

	Surveyed Revised Levelled	1987-1994 2016 1986-1987
--	---------------------------------	--------------------------------

ITEM CENTRE PT COORDS
562222,794380

DESCRIPTION

MAP SHEETS

1:1000
1857-22

1:2500
1917-A 1917-B

Produced by The Map Centre
Gurdull House, Pierret Street, Waterford
In honour of Ordnance Survey Ireland
Ancient Park, Dublin 8

Statistical Research Institute of the Republic of Serbia
Statistički Zavod Republike Srbije
Belgrade, Yugoslavia
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4151

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OF ORDNANCE SURVEY OF IRELAND
UNDER LICENCE NO. CYAL50510798
FOR MALONE O'REGAN

DON'T SCALE DIMENSIONS



Health and Safety:

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, THE SPECIFICATIONS, THE SAFETY AND HEALTH PLAN.

THE APPOINTMENT OF THE PROJECT SUPERVISOR DESIGN PROCESS IS THE CLIENT'S RESPONSIBILITY.

TEMPORARY WORKS PROPOSALS AND/OR METHOD STATEMENTS TO BE SUBMITTED TO THE PSDP AND THE PSCS FOR WORKS WHICH INVOLVE PARTICULAR RISKS.

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- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IN WRITING.
- THIS DRAWING TO BE READ IN ACCORDANCE WITH ALL RELEVANT ENGINEERS' DRAWINGS AND SPECIFICATIONS.

LEGEND:

OUTLINE OF LAND OWNERSHIP DENOTED THIS:



OUTLINE OF SITE BOUNDARY 1:510 1:0m² (0.1210Ha) (0.3/3.2 Acres) DENOTED THIS:



P	PLANNING ISSUE	JUL 26	AN	LB
Rev	Description	Date	Drawn	Chd

P3 - ISSUED FOR PLANNING

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MALONE O'REGAN
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GALWAY Tel: +353 91 531 089 Email: galway@mor.ie
LONDON Tel: +44 208 5281685 Email: london@mor.ie

Client: AURIVO ANIMAL FEEDS

Job: AURIVO DRAINAGE UPGRADE

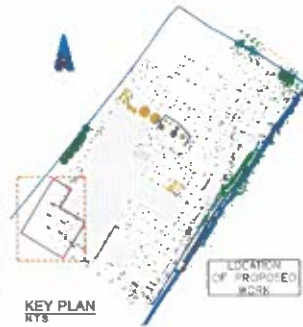
Drawing: EXISTING SITE LAYOUT

Job No	Revision	Approver	Scale	Sheet
W26000-1	0	PR	A1 1:500 A3 1:1000	A1

W26000-1-XX-XXX-DR-MOR-CE-01002

DON'T SCALE DIMENSIONS

DON'T SCALE DIMENSIONS

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5. THIS DRAWING TO BE READ IN ACCORDANCE WITH ALL RELEVANT DISCREPANCY DRAWINGS AND SPECIFICATIONS.

LEGEND:

OUTLINE OF SITE
BOUNDARY 1:11.1 (10m)
10-10 (10m) 10-10 (10m)
NOTED THIS

EXISTING GULL
DRAINAGE TO
EXIST. SEWEREDGE OF EXISTING
PAVING SURFACEEXISTING GULLAGE
SURFACEEXISTING
C/BANDWIDTH 8
INCH TELLEXISTING GULL
DRAINAGE TO
EXIST. SEWEREXISTING
FOOTPATH

EXISTING SITE LAYOUT
A1 SCALE 1:100
A2 SCALE 1:200

DON'T SCALE DIMENSIONS

P	PLANNING ISSUE	AUG 26	A1	LB
No	Complete	Date	Issue	Order

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LONDON Tel: +44 209 5261885 Email: london@maloneo.ie

Client: AURIVO ANIMAL FEEDS

Job: AURIVO DRAINAGE UPGRADE

Drawing:
EXISTING SITE SURVEY, 1:100

Job No	Revision	Author	Date	Sheet
W26000-1	0	PR	A1 A2 30/08/2024 A3 A5 30/08/2024	A1
Job No	W26000-1-JX-JXX-DR-MOR-CE-01003			

Health and Safety

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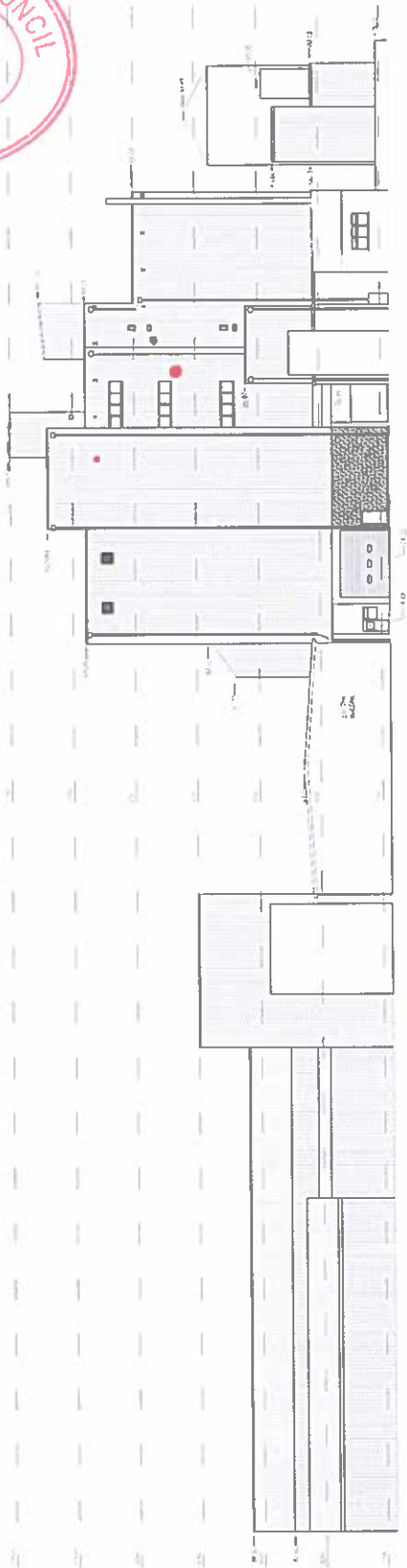
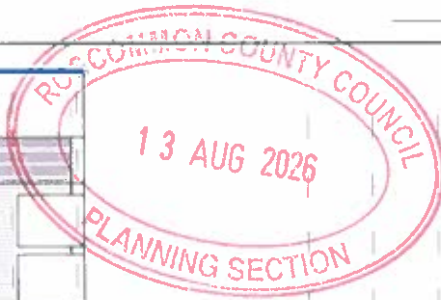
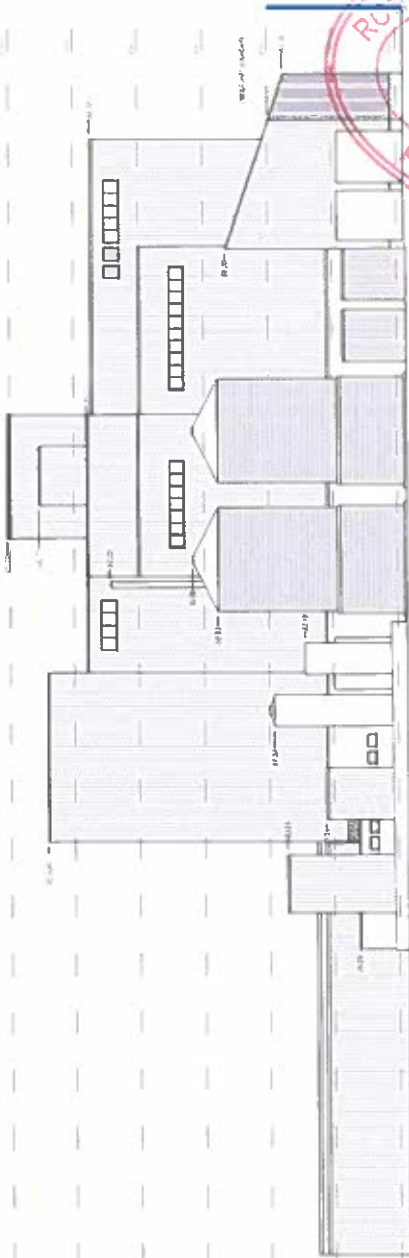
THE RESPONSIBILITY OF THE PROJECT MANAGER DESIGN PROCEDURE IS THE CLIENT'S RESPONSIBILITY.

THE PROJECT MANAGER DESIGN PROCEDURE IS THE CLIENT'S RESPONSIBILITY.

THE PROJECT MANAGER DESIGN PROCEDURE IS THE CLIENT'S RESPONSIBILITY.

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3. THE PROJECT MANAGER DESIGN PROCEDURE IS THE CLIENT'S RESPONSIBILITY.
4. THE PROJECT MANAGER DESIGN PROCEDURE IS THE CLIENT'S RESPONSIBILITY.
5. THE PROJECT MANAGER DESIGN PROCEDURE IS THE CLIENT'S RESPONSIBILITY.
6. THE PROJECT MANAGER DESIGN PROCEDURE IS THE CLIENT'S RESPONSIBILITY.



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34 Crispin Street Walsford Warwickshire CV35 9EF Tel: 01453 811318 Fax: 01453 811319 Email: info@maloneoak.com Web: www.maloneoak.com	34 Crispin Street Walsford Warwickshire CV35 9EF Tel: 01453 811318 Fax: 01453 811319 Email: info@maloneoak.com Web: www.maloneoak.com
Office: 01453 811318 Mobile: 01453 811319 Email: info@maloneoak.com	Office: 01453 811318 Mobile: 01453 811319 Email: info@maloneoak.com
Owner: AURIVO ANIMAL FEEDS	
Aurivo Drainage Update	
Drawing: EXISTING ELEVATIONS SHEET 1 OF 2	
Drawn by: V020005-1 Checked by: D Reviewed by: PR Scale: 1:500 Date: 13/08/2026	Drawn by: V020005-1 Checked by: D Reviewed by: PR Scale: 1:500 Date: 13/08/2026
V020005-1-33-333-OR-MOR-CE-01008	

Health and Safety

The contractor shall ensure a competent person is available to provide advice on the safety and health plan.

The contractor shall ensure a competent person is available to provide advice on the safety and health plan.

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5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

EXISTING ELEVATION D

A1 SCALE: 1:500
A2 SCALE: 1:100

EXISTING SECTIONAL ELEVATION C

A1 SCALE: 1:500
A2 SCALE: 1:100

EXISTING ELEVATION KEY PLAN

A1 SCALE: 1:500
A2 SCALE: 1:100



P3 - ISSUED FOR PLANNING

Rev	Description	Date	By
1	Issued for Planning	13/08/2026	ADP

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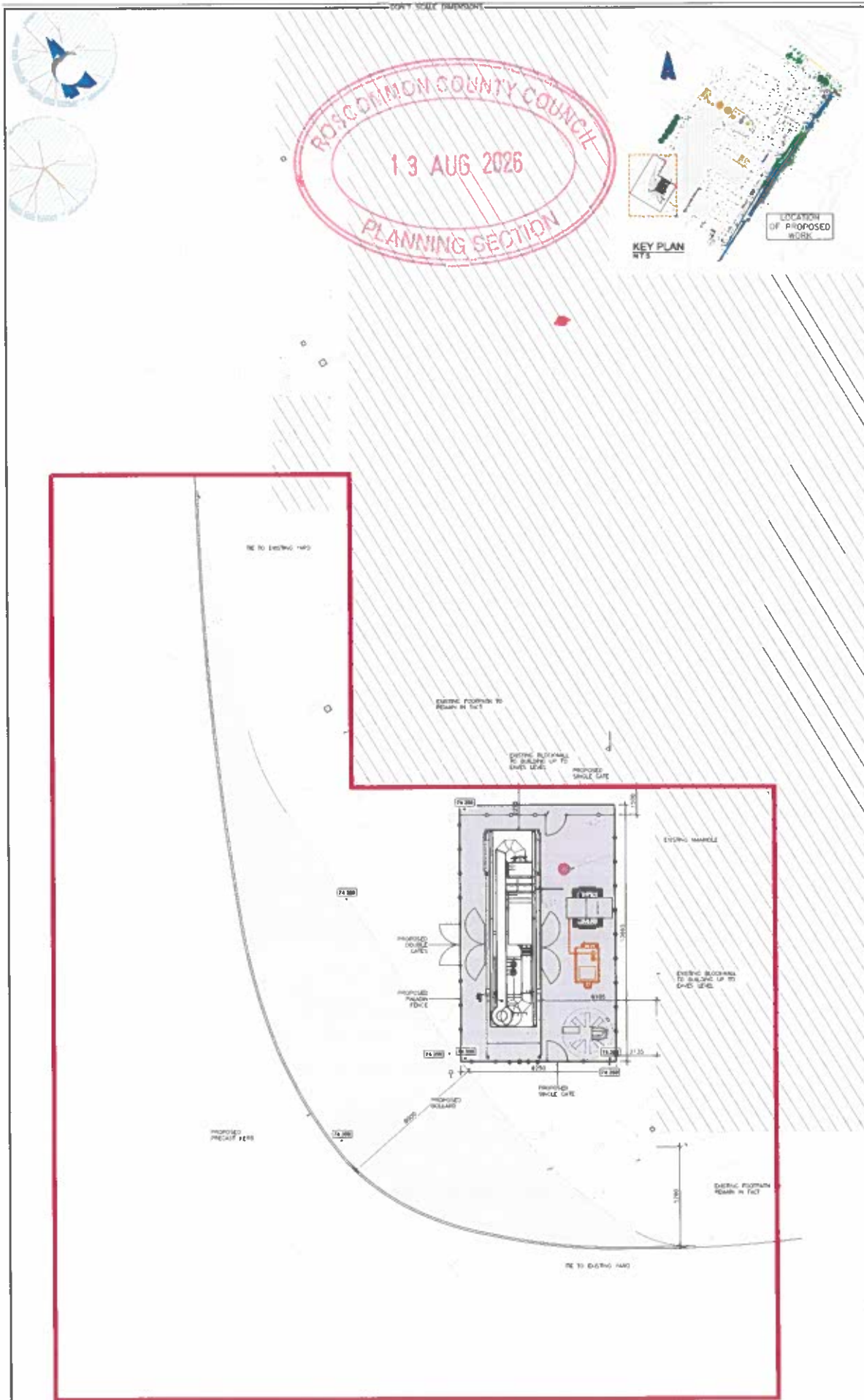
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Email: info@adp.ie
www.adp.ie



Health and Safety:

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, THE SPECIFICATION AND THE SAFETY AND HEALTH PLAN.

THE APPROPRIATENESS OF THE PROJECT SUPERVISOR DESIGN PROCESS IS THE CLIENT'S RESPONSIBILITY.

TEMPORARY WORKS PROPOSALS AND/OR METHOD STATEMENTS TO BE SUBMITTED TO THE PCOP AND THE PRCS FOR WORKS WHICH INVOLVE PARTICULAR RISKS.

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 - THIS DRAWING TO BE READ IN ACCORDANCE WITH ALL RELEVANT ENGINEERING DRAWINGS AND SPECIFICATIONS.

LEGEND:

OUTLINE OF SITE BOUNDARY 1:500 (0.1310km) 0.1312 Acres DENOTED: IN J8	
PROPOSED HARDCORE FINISH	
REPLACE EXISTING HARDCORE SURFACE TO MATCH SURROUNDINGS (SEE J8)	
PROPOSED 250mm WITH (20/37 MC SLAB WITH 3 LAYERS 4252 (1 TOP & 1 BOTTOM) ON 50mm (12/15) BUILDING ON cca. 200mm FILL LEV. ON TERRAIN OR WELL COMPACTED SOLID FORMATION	
PROPOSED PRECAST PILES	

PLANNING ISSUE	DATE	BY	CHKD	APPD
No.	Description	Date	Drawn	Check

P1 - ISSUED FOR INFORMATION

ADR
MALONE O'REGAN
CONSULTING ENGINEERS

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GALWAY: Tel: +353 91 531 080 Email: galway@malone-o-regan.ie
LONDON: Tel: +44 208 526 1485 Email: london@malone-o-regan.ie

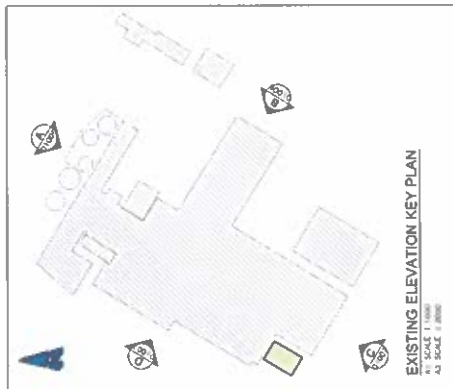
Client: AURVO ANIMAL FEEDS

Job: AURVO DRAINAGE UPGRADE

Drawing: PROPOSED SITE LAYOUT

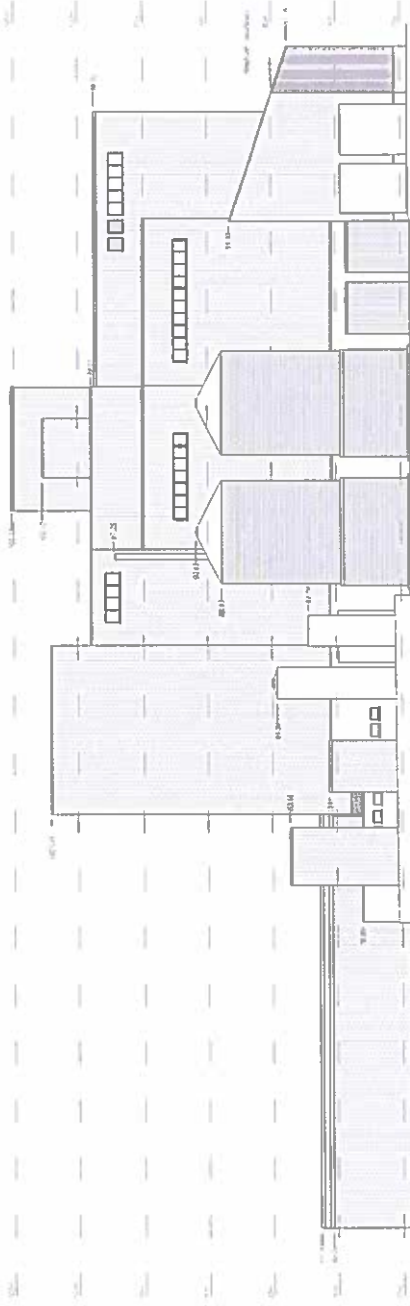
Job No.	Revision	Author	Date	Sheet
W26000-1	0	PR	11/08/2024	A1

Job No. W26000-1-XX-XXX-DR-MOR-CE-01009



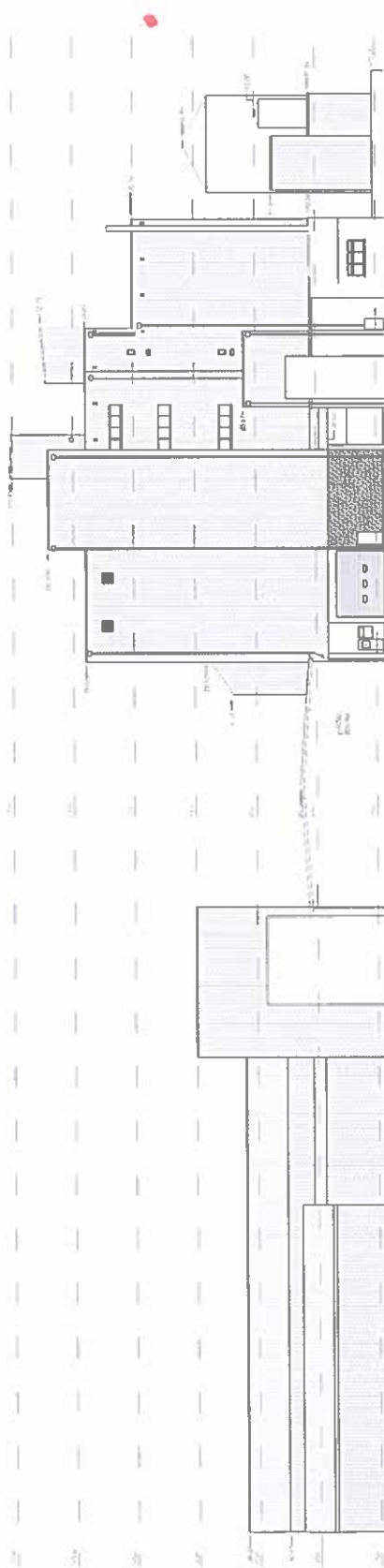
EXISTING ELEVATION KEY PLAN

A1 SCALE 1:200
A3 SCALE 1:800



PROPOSED ELEVATION A

A1 SCALE 1:200
A3 SCALE 1:800



PROPOSED ELEVATION B

A1 SCALE 1:200
A3 SCALE 1:800

Health and Safety

The drawings to be read in conjunction with all other relevant drawings, the specification and the contract documents. The drawings are the responsibility of the designer and the contractor. The contractor is responsible for the construction of the building and the provision of the services. The drawings are not to be used for any other purpose without the written consent of the designer.

Notes

1. NO PART OF THE DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER.
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P3 - ISSUED FOR PLANNING	
No	Description
1	13 AUG 2026
2	

34 College Street
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Fax: 01 454 4112
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Website: www.maloneocean.com

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Fax: 01 454 4112
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10

Health and Safety:

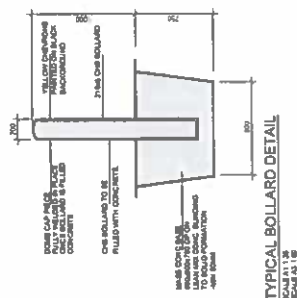
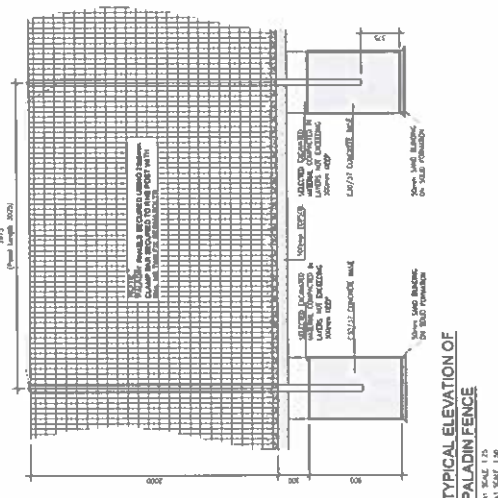
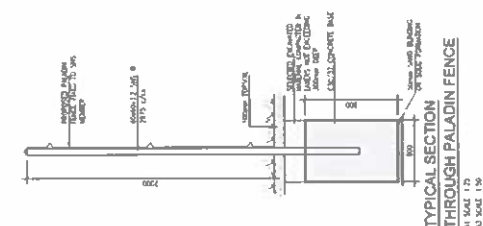
THIS DESIGNED TO BE READ IN CONJUNCTION WITH ALL OTHER INFORMATION, INCLUDING THE SPECIFICATION AND THE SAFETY AND HEALTH PLAN.

THE APPOINTMENT OF THE FRO
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TEMPORARY WORK PROPOSALS... A METHOD
STATEMENTS TO BE SUBMITTED TO THE FRO
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P3 - ISSUED FOR PLANNING

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AURIVO ANIMAL FEEDS

ARTIFICIAL DRAINAGE UPDATE

Site Development Details

Job No	Part No	Appr Name	Shop	Matl
W20000-1	0	PR	A1	A1

Qty Req W20000-1 XX-XXX-OR-MOR-CE-01500



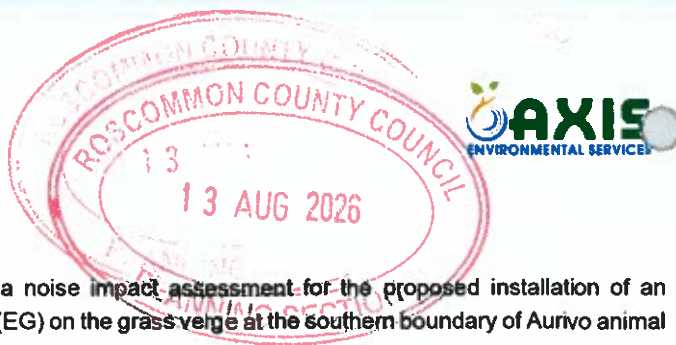
Environmental Noise Impact Assessment



Prepared for:

Aurivo Animal Feeds





Executive Summary

Aurivo Co-Operative Society (Aurivo) has carried out a noise impact assessment for the proposed installation of an TRIGEN P2500-BD-CO emergency electrical generator (EG) on the grass verge at the southern boundary of Aurivo animal feeds, Dublin Road, Ballaghaderreen, Co. Roscommon.

AXIS Environmental Services were commissioned to complete a noise impact assessment of the EG after proposal acknowledgment and acceptance by Aurivo and associated consultants on the project.

A baseline survey was carried out in strict accordance with the standard ISO 1996 Parts 1 – 3, Acoustics – description, measurement and assessment of environmental noise. Reference was also made to the EPA guidelines NG4 “Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities” January 2016. The survey measured background noise in the area without the proposed noise source in place.

The noise model was completed using maximum noise levels associated with the generators as provided by the manufacturer at 1 meter. The model conservatively assumed continuous operation of the generator during the daytime, evening and night-time assessment periods at nearest noise sensitive receptors. The software used was SoundPLAN Model.

The following point source emissions have been modelled in this report:

Table 1-1 Summary of Emission Point Modelled

Reference Installation	Description	Parameters Provided
TRIGEN P2500-BD-CO Emergency Generator	Emergency Generator operating on HVO fuel	Noise impact at the nearest sensitive receptors

Main Activities and Input Parameters:

Aurivo Animal Feeds is a dedicated ruminant feed manufacturing facility located on the Dublin Road, Ballaghaderreen, Co. Roscommon, within a zoned strategic industrial/enterprise area. The mill manufactures a range of coarse and pelleted animal feeds, marketed primarily under the Nutrias brand, for the livestock sector.

The site receives bulk raw materials including cereals, minerals, molasses and vegetable oils, which are processed through a multi-storey enclosed feed mill. Operations include raw material intake, storage, grinding, mixing, conditioning, pelleting, cooling, screening, bagging and bulk loading for distribution. The facility comprises an eight-storey feed mill, grain stores, product warehouses, raw material silos, boiler house, workshop, laboratory, administration buildings and associated loading and dispatch areas.

An emergency generator is proposed for installation as a backup electricity supply during interruptions to the national grid or other grid-related events.

Table 1-2 Input Parameters to the Model

Equipment	Sound Pressure Level
Emergency Generator	85 dB(A) at 1 meter



Purpose:

The objectives of this assessment were to:

- Complete a predictive noise model for the emissions as listed in the preceding tables.
- Determine the noise impact at the nearest noise sensitive locations.
- Compare the noise levels determined to limits outlined in EPA Industrial Emissions Licence P1188-01.
- Assess the potential impact in line with BS 4142.
- Where necessary, determination of potential mitigation measures required to reduce impacts.

Method Summary:

With all the input files established, the noise model was executed. The model was run using the latest SoundPLAN Software (Version 6.0). Building and terrain effects were included as part of the modelling analysis.

Background noise levels were determined in accordance with ISO 1996 Parts 1 - 3. A survey of the facility was conducted as part of compliance assessment and reported in 4110-25-06 Environmental Noise Survey Report Version 1 App.

A receptor grid system was determined that extended out to residences close to the facility boundary line. Special receptors including nearby houses and amenities were included as part of the receptor network.

Summary of Findings:

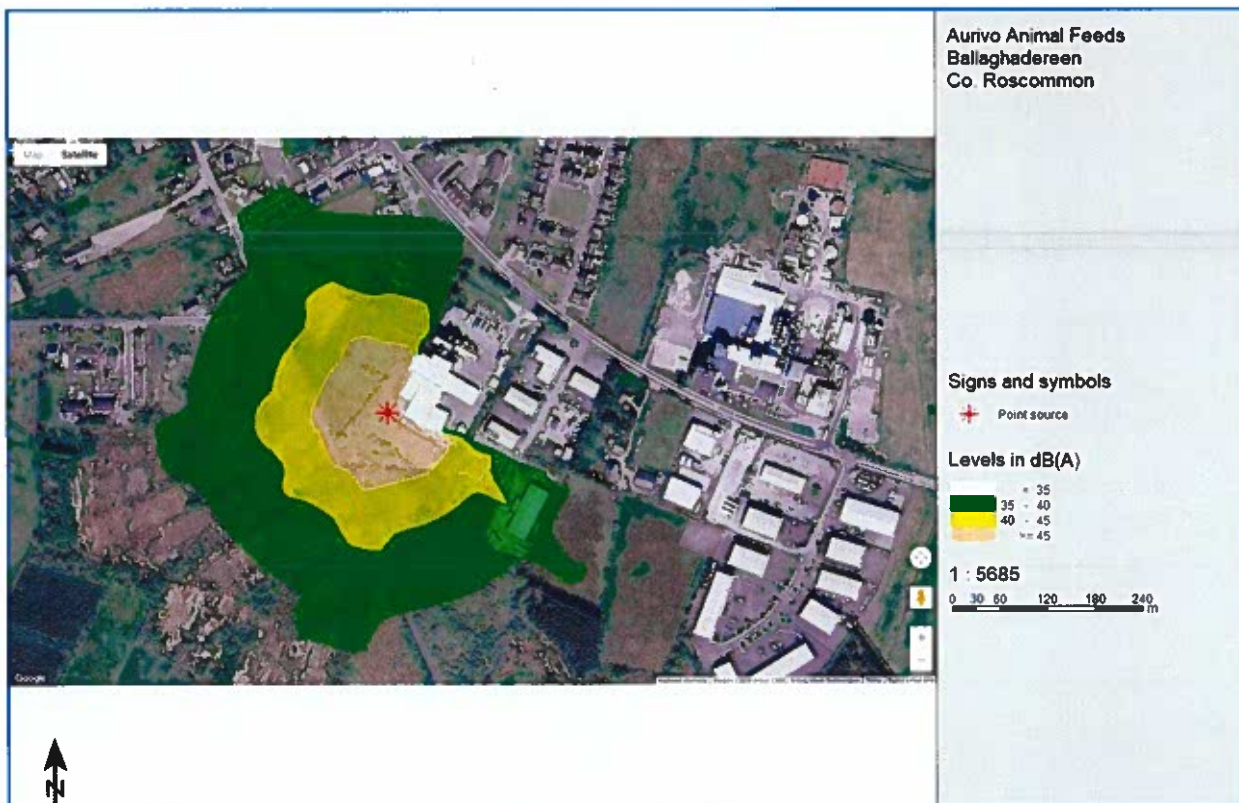
Table 1-3 summarises the results of the model, and their comparisons with the noise standards.

Table 1-3 Summary of Three Highest Model Results

Sensitive Receptor	General Noise Limits dB(A)			Noise Attributed From EG dB(A)		
	Day	Evening Note 1	Night	Day	Evening	Night
1	55	50	45	35.5	35.5	35.5
5	55	50	45	36.1	36.1	36.1
7	55	50	45	38.7	38.7	38.7



Noise Contours:



Receptor Locations





Conclusions:

The assessment predicts a maximum specific sound level from the proposed emergency generator of 38.7 dB $L_{Aeq,T}$ at the most affected noise-sensitive receptor under the modelled worst-case operating scenario. This is approximately 0.7 dB above the adopted representative night-time background sound level of 38 dB $L_{A90,T}$, measured at NSL1.

In accordance with BS 4142:2014+A1:2019, a rating level that is broadly comparable with the existing background sound level does not, on the initial numerical assessment, indicate an adverse impact. Having regard to the small difference between the rating and background sound levels, the predicted impact is considered to be low, subject to the relevant context and the uncertainty associated with the assessment.

The assessment has been undertaken on a conservative basis, assuming that the proposed generator operates continuously at its maximum modelled sound emission level throughout the relevant assessment period. In practice, the generator is intended primarily for emergency backup purposes during interruptions to the national electricity supply, or where its operation is required to maintain essential site services. It is therefore expected to operate only intermittently and for substantially shorter durations than those assumed in the model.

Across the assessed receptors, the predicted rating levels range from approximately 19.9 dB below to 0.7 dB above the adopted background sound level. On this basis, operation of the proposed generator would not materially alter the existing acoustic environment or give rise to an adverse noise impact at nearby noise-sensitive receptors.

Accordingly, no additional noise mitigation measures are considered necessary, provided that the generator is installed and operated in accordance with the modelled specification and maintained in good acoustic and mechanical condition.

Parameter	Value
Background Sound Level (L_{A90})	38 dB
Highest Modelled Specific Sound Level	38.7 dB
Tonal Correction	0 dB
Impulsivity Correction	0 dB
Rating Level	38.7 dB
Difference	0.7 dB
Significance	Low impact
Noise Significance Assessment from BS 4142	
≤ 0 dB	Low impact
+5 dB	Indication of adverse impact
$\geq +10$ dB	Indication of significant adverse impact

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Document Sign Off			
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Reason for Issue:	Environmental Noise Impact Assessment		
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Originator:	Signature:	Reviewer:	Client Name:
Mark McGarry		Niamh McMahon	Aurivo Animal Feeds
Document History:			
Report Revision Number	Revision Date	Section Revised	Reason for Revision



1. Introduction

AXIS Environmental Services Ltd. was commissioned by Aurivo Animal Feeds, Ballaghaderreen, Co. Roscommon, to undertake a detailed Noise Impact Assessment for a proposed Emergency Generator.

The relevant noise-related requirements for this report were as follows:

1. To assess the likely operational noise levels arising from the proposed generator and determine its contribution to the existing background noise environment.
2. To determine whether noise associated with the operation of the generator is likely to contain any distinguishable noise impact.
3. To identify and assess any mitigation measures required to address potential noise impacts.

To address these requirements, a baseline environmental noise survey was undertaken in accordance with the requirements of ISO 1996-1, ISO 1996-2 and ISO 1996-3, *Acoustics – Description, Measurement and Assessment of Environmental Noise*. Reference was also made to the Environmental Protection Agency (EPA) publication NG4 – Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (January 2016). The survey was undertaken in 2025 to characterise the existing acoustic environment and establish baseline noise conditions for licence compliance purposes. Monitoring was carried out prior to the installation of the proposed emergency generator, thereby ensuring that the measured noise levels are representative of the prevailing ambient and background acoustic environment at nearby noise-sensitive receptors. These baseline data have been used to inform the noise impact assessment and to evaluate the potential contribution of the proposed emergency generator under worst-case operating conditions.

The Noise Impact Assessment was subsequently undertaken using a predictive noise modelling approach to evaluate the potential operational noise impacts associated with the proposed generator. Noise propagation modelling was completed using SoundPLAN Version 6.0, incorporating the proposed plant noise emission data, site geometry, local topography and the locations of nearby noise-sensitive receptors.

The primary objective of the assessment was to determine the potential operational noise levels arising from the proposed generator and to evaluate compliance with applicable environmental noise criteria. Particular consideration was given to the assessment methodology and significance criteria outlined in BS 4142:2014+A1:2019, *Methods for Rating and Assessing Industrial and Commercial Sound*, which provides a recognised framework for assessing the impact of industrial and commercial noise sources on nearby residential receptors.

The noise model was used to predict operational noise levels at identified receptor locations and to assess the magnitude of any impact relative to the existing background sound environment. The assessment also evaluated whether the operation of the proposed installation would be likely to result in adverse community response, noise complaints, or exceedance of applicable daytime or night-time noise criteria.

The findings of the baseline survey and predictive modelling assessment are presented in the following sections of this report.



2. Baseline Monitoring Methods

Monitoring was carried out in strict accordance with ISO 1996 Parts 1 – 3, Description and Measurement of Environmental Noise. Reference was also made to the EPA guidelines NG4 "Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities" January 2016.

Table 2-1: Equipment Details

Instrument Details	Meter No 6	Meter No 7
Manufacturer	Cirrus Optimus	Cirrus Optimus
Model	CR:171B	CR:171B
Serial Number	G303784	G303820
Firmware	V5.7.3228	V5.7.3251
Calibrator	CR:172B Acoustic Calibrator	CR:172B Acoustic Calibrator
Microphone	MK:216 413811B	MK:224 217815A
Preamplifier	MV:200F 12505F	MV:200F 12353F
Windshield Type	UA:237 90mm Foam Windshield	UA:237 90mm Foam Windshield
Meter Certificate Number	210825	209573
Meter Calibration Date	14 March 2024 - 2026	29 February 2024 - 2026
Microphone Identification	MK:216-413811B	MK:216-217815A
Microphone Certificate	210827	209575
Calibrator Number	CR515:99222	CR514:77525
Calibration Certificate	250551	237523
Calibrator Setting	94 dB	94 dB
Calibration Date	02 October 2025-2026	03 April 2025 - 2026
Pre / Post Cal Drift <0.5 dB	Yes	Yes
Response Time	Fast	Fast
Sound Pressure	A Weighting	A Weighting
Spectra	Unweighted	Unweighted



2.1 Laboratory and Field Calibration

The sound level meters and portable calibrators are independently calibrated on an annual basis for calibrators and every 2 years for meters in line with ISO standards. Certificates of calibration for the specific equipment used in this survey are included in the appendix of this report. It is a requirement by all noise standards that an external laboratory must calibrate sound level meters and calibrators on a periodic basis. BS 7580:1997 Specification for the verification of sound level meters recommends, and it is the opinion of the EPA as defined in NG4:2016, that sound level meters should be verified at least every two years. Calibrators must be externally calibrated at least once a year. ISO 1996, recommends a time interval for testing of system performance at once a year, with a maximum allowable interval of 2 years.

The sound level meters are calibrated in the field prior to the measurement campaign with the calibrator. The sound level meter is then verified as fit for purpose, and post checks are carried out with the calibrator to confirm the meter remained within a quantified level of drift. Without any further adjustment, the difference between the readings of two consecutive checks must be less than or equal to 0.5 dB.

2.2 Measurement Condition

The instruments used for measuring sound pressure levels, including microphone, cables, windscreen, recording devices and other accessories, if used, meet the requirements for Class 1 instruments. A windscreen is always used during outdoor measurements to reduce the impact of wind on the microphone

The installation's operating conditions must be representative of the noise environment under consideration, i.e. the licensed installation under assessment should be representative of normal operations for that activity. To obtain a reliable estimate of the equivalent-continuous sound pressure level, as well as the maximum sound pressure level, the measurement time intervals are measured as outlined by the licence conditions for day, evening and night time surveys.

It is a licence condition that during daytime and evening periods rigorous efforts should be made by the installation under assessment to avoid clearly audible tones and impulsive noise at all sensitive locations. A penalty of 5dB for tonal and/or impulsive elements is to be applied to the daytime and evening measured $L_{Aeq,T}$ values to determine the appropriate rating level ($L_{A,T}$). During the night-time period no tonal or impulsive noise from the facility should be clearly audible or measurable at any NSL.

2.3 Tonal Noise Assessment

Tonal noise was determined by frequency analysis (1/3rd octave) for the noise measurements recorded at the monitoring locations during the noise survey.

This involved the analysis of the spectrum of noise levels recorded at each measurement location with respect to the frequencies (Hz) at which they occurred, in accordance with Section 5.1 of EPA guidance NG4.

One-third octave band tonal analysis was completed, using the calculation of an averaged noise level to represent the frequencies within each third of an octave. These noise levels were then compared with the noise levels calculated for the adjacent one-third octave bands. Further to EPA guidance NG4, a tonal noise can be objectively identified where the time-average sound pressure level in the one-third-octave band of interest exceeds the time-average sound pressure levels of both adjacent one-third-octave bands by a constant level difference as outlined below:



Table 2-2: NG4 Tonal Noise Assessment

Frequency Range	Units	Pressure Level Difference	Units
25 - 125	Hertz	15	dB
160 - 400	Hertz	8	dB
500 - 10,000	Hertz	5	dB
Period Correction / Penalty to L_{Aeq} for produce $L_{A,T}$			
Day and Evening Time	5 dB		
Night Time	Tonal noise from the facility should not be audible at any NSL		

2.4 Impulsive Characteristics

This is defined in NG4 as a noise that is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background. Normally an impulsive characteristic is determined subjectively as it is clearly audible. A noise source that attracts an impulsive characteristic will often be described as something with a thumping, banging or impact noise that is clearly audible above everything else. It is distinguished by a sharp rise in noise level.

There is no International Standard to detect impulsive sound using objective measurements. If impulsive sound occurs, the technician will identify the source and compare it to the list of impulsive sound sources in ISO 1996-1.

Table 2-3: NG4 Impulsive Noise Assessment

Period	Correction / Penalty to L_{Aeq} for produce $L_{A,T}$
Day and Evening Time	5 dB
Night Time	Impulsive noise from the facility should not be audible at any NSL

2.5 Extraneous Sources

The report clearly interprets the noise results and highlights whether noise from the activity or extraneous noise sources are the dominant contributors to the noise levels measured. This interpretation is based on the various noise measurements and any comments included on the dominant and/or intermittent sources of noise at the various measurement locations.

Extraneous noise sources unconnected with the activity under consideration will unduly influence the measurements. In such situations, every effort was made to ascertain the site-specific noise level by following the approach set out in EPA guidance note NG4.

Local intermittent sources such as pedestrians passing the meters can be excluded where possible during the measurement.

The microphone was located at least 1.2 m away from vegetation or trees which would generate wind-blown sound, unless otherwise noted in the report. The only reason this would not be applied is if the scenario was not possible at the agreed noise measurement location.

In all cases, the microphone will be installed in free-field conditions to remove reflection contribution, unless otherwise noted in the report.

The uncertainty in taking measurements is reduced through replication of the same equipment and microphone positioning.



3. Monitoring Locations

Figure 3-1: Location of Monitoring Points





3.1 Baseline Measurement Location

3.1.1 NSL 1 Site Observation

3.1.1.1 Daytime Noise

This monitoring location is situated to the northwest of the Aurivo Animal Feeds facility within a green area adjacent to a row of residential dwellings along the L1244. During the monitoring period, the L1244 was the dominant source of environmental noise, with a steady flow of mixed vehicular traffic. Intermittent pedestrian movements on the adjacent footpath were also noted, with footsteps on foliage contributing occasionally to the measured sound levels. Church bells were audible at times in the distance. Operational noise from the Aurivo facility was faintly audible during quieter periods between road traffic movements.

3.1.1.2 Evening-Time Noise

During the evening monitoring period, traffic on the L1244 remained the principal source of environmental noise, although traffic volumes had reduced compared with the daytime period. Operational noise from the Aurivo facility remained faintly audible. Meteorological conditions were characterised by moderate to strong winds, with average wind speeds of approximately 4 m/s and gusts of up to 5.5 m/s. Wind-induced movement of leaves and surrounding vegetation contributed to the ambient sound environment.

3.1.1.3 Night-Time Noise

During the night-time monitoring period, road traffic on the L1244 was infrequent and ambient noise levels were generally lower than during the daytime and evening periods. Wind speeds remained elevated, similar to those recorded during the evening. A brief but heavy rainfall event occurred during the hour preceding the monitoring period, and raindrops falling from the surrounding trees onto the ground may have influenced the measured noise levels. Operational noise from the Aurivo Animal Feeds facility was not audible during the monitoring period.

3.2.1 NSL 2 Site Observation

3.2.1.1 Daytime Noise

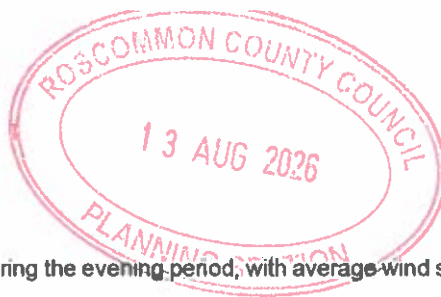
This monitoring location was situated to the north of the Aurivo Animal Feeds facility at the entrance to the Meadows residential estate. Throughout the monitoring period, road traffic on the adjacent L1244 was the dominant source of environmental noise, with continuous movements of passing vehicles. Additional traffic associated with vehicles entering and exiting the residential estate also contributed to the local acoustic environment. During periods of reduced traffic activity, a faint continuous humming sound associated with the Aurivo Animal Feeds facility was audible.

3.2.1.2 Evening-Time Noise

During the evening monitoring period, road traffic on the adjacent L1244 remained the principal source of environmental noise, although traffic volumes had reduced compared with the daytime period. Vehicle movements associated with the Meadows residential estate occurred intermittently throughout the monitoring period. A faint continuous humming sound from the Aurivo Animal Feeds facility remained audible during quieter periods. A radio being played through an external loudspeaker at a separate facility located across the road, unrelated to Aurivo Animal Feeds, was audible throughout the monitoring period. Meteorological conditions were characterised by moderate to strong winds, with average wind speeds of approximately 4 m/s and gusts of up to 5.5 m/s.

3.2.1.3 Night-Time Noise

During the night-time monitoring period, traffic on the adjacent L1244 was infrequent, with only sporadic vehicle pass-bys observed. A faint continuous humming sound associated with the Aurivo Animal Feeds facility was audible throughout the monitoring period. In addition, a separate low-level humming noise from another nearby industrial facility was also noted.



Wind conditions remained similar to those recorded during the evening period, with average wind speeds of approximately 4 m/s and gusts of up to 5.5 m/s.

3.3.1 NSL 3 Site Observation

3.3.1.1 Daytime Noise

This monitoring location was situated approximately 200 m to the west of the Aurivo Animal Feeds facility within a green area adjacent to a residential housing estate. The dominant source of environmental noise during the monitoring period was road traffic associated with the nearby Circular Road, Station View and local residential streets. During quieter intervals between traffic movements, a faint operational humming sound from the Aurivo Animal Feeds facility was intermittently audible.

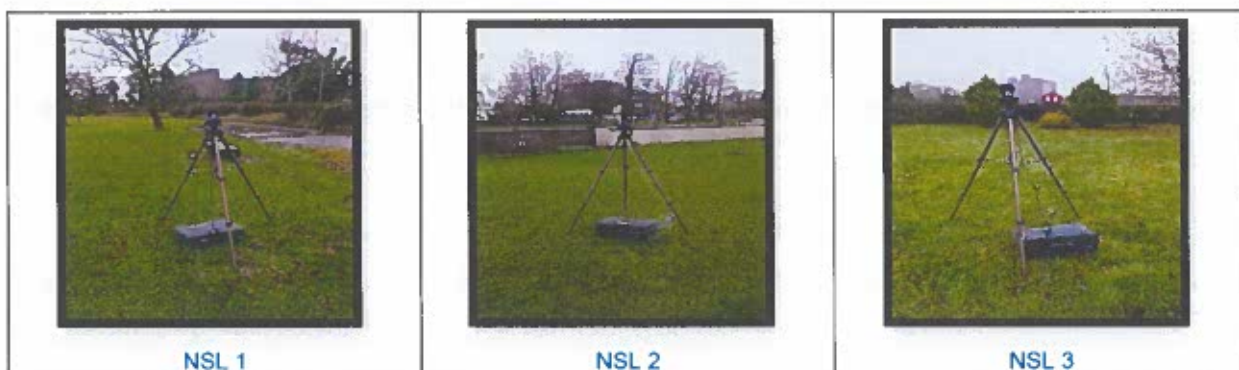
3.3.1.2 Evening-Time Noise

During the evening monitoring period, road traffic on the nearby Circular Road, Station View and surrounding residential estate remained the dominant source of environmental noise, although traffic volumes were lower than those observed during the daytime period. Operational noise from the Aurivo Animal Feeds facility was not audible during the monitoring period.

3.3.1.3 Night-Time Noise

During the night-time monitoring period, infrequent traffic on the nearby Circular Road remained the principal source of environmental noise. Three heavy goods vehicles (HGVs) were observed during the latter part of the monitoring period and contributed to elevated short-term noise levels. No operational noise from the Aurivo Animal Feeds facility was audible at this location. Meteorological conditions were characterised by wind gusts exceeding 5 m/s, with rainfall occurring throughout the monitoring period. Rainfall intensity increased significantly from approximately 23:35 until the conclusion of the survey and is likely to have influenced the measured noise levels.

Figure 3.2 Photo of Sampling Areas





4. Summary of Baseline Noise Measurements

Table 4-1: NSL 1 Measurements

Start Time	End Time	Duration	$L_{eq,T}$	$L_{90,T}$	Tonal Noise	Impulsive Noise
13.06	13.36	30 Minutes	57	50	None	None
13.36	14.06	30 Minutes	59	51	None	None
14.06	14.36	30 Minutes	58	49	None	None
Evening Time						
21.08	21:38	30 Minutes	52	46	None	None
Night Time						
00.19	00:49	30 Minutes	48	38	None	None
00.49	01:19	30 Minutes	43	38	None	None

Table 4-2: NSL 2 Measurements

Start Time	End Time	Duration	$L_{eq,T}$	$L_{90,T}$	Tonal Noise	Impulsive Noise
13.18	13.48	30 Minutes	62	55	None	None
13.48	14.18	30 Minutes	61	54	None	None
14.18	14:48	30 Minutes	60	53	None	None
Evening Time						
20.51	21:21	30 Minutes	59	50	None	None
Night Time						
00.14	00:44	30 Minutes	74	44	None	None
00.44	01:14	30 Minutes	52	43	None	None

Table 4-3: NSL 3 Measurements

Start Time	End Time	Duration	$L_{eq,T}$	$L_{90,T}$	Tonal Noise	Impulsive Noise
11.26	11.56	30 Minutes	54	42	None	None
11.56	12.26	30 Minutes	53	41	None	None
12.26	12:56	30 Minutes	53	42	None	None
Evening Time						
22:17	22:47	30 Minutes	58	45	None	None
Night Time						
23.04	23:34	30 Minutes	63	46	None	None
23.34	00:04	30 Minutes	63	46	None	None

Table 4-4: Meteorological Conditions

Weather Conditions:		
	Daytime:	Night Time:
Temperature (°C)	13	12
Wind Speed (m/s)	1.1	4.2
Wind Direction:	E	NE
Precipitation (mm):	0.0	1.1

Meteorological conditions during the survey period were typical for November, with predominantly overcast skies with intermittent breeze. Wind conditions were generally light to moderate, predominantly from an easterly / north easterly direction, with speeds ranging from approximately 0 to 4.2 m/s. These conditions are considered suitable for environmental noise measurements and are representative of typical baseline conditions.



5. Model Inputs

5.1 Noise Emissions from the Proposed Development

A key input to the noise propagation model is the source noise emission level associated with the proposed emergency generator. Source noise data were obtained from manufacturer guarantees measured at 1 meter from the equipment.

Table 5-1: Source Information Data

Equipment	Sound Pressure Level	Free-field, full spherical radiation equivalent
Emergency Generator	85 dB(A) at 1 meter	96 dB LWA

P2500-BD-CO

Main Data	
Prime power (PRP)	2280.0 (kVA)
Prime power (PRP)	1824.0 (kW)
Limited Power (LTP)	2550.0 (kVA)
Limited Power (LTP)	2040.0 (kW)
DCC Rating	2000.0 (kW)
Sound Pressure 1m	85 dBA
Voltage - Frequency	400V - 50Hz
Power Factor	0.8 cos ϕ

The manufacturer's stated sound-pressure level of 85 dB(A) at 1 m was converted to an equivalent sound-power level using free-field spherical propagation, giving approximately 96 dB LWA. This represents a conservative source definition where the installed generator may in practice radiate over a reflecting ground plane.

5.2 Noise Model Configuration and Assumptions

Noise propagation modelling was undertaken using SoundPLAN. Noise propagation calculations were undertaken in accordance with ISO 9613-2:2024, incorporating geometric divergence, atmospheric absorption, ground effects, screening, terrain and reflection effects, as applicable.

The model incorporated measured source noise data for the generator, together with local topography, surrounding building geometry, existing screening features and the nearest noise-sensitive receptor locations.

The proposed EG was represented as a point source using sound pressure levels derived from the field measurements described in Section 5.1. The model was configured to predict operational noise levels from the proposed EG to the surrounding residential receptors under continuous operation.

Existing buildings and intervening structures were included where relevant to account for screening and reflection effects.

Ground absorption was represented using assumptions appropriate to the local environment, comprising a combination of acoustically hard and absorptive surfaces. Building reflections, terrain effects were included in the model calculations.

For assessment purposes, the EG was assumed to operate continuously during the daytime, evening and night-time assessment periods using maximum source emission levels. This represents a conservative assessment scenario, as the generator is to be used in back up events and not for continuous operation.



5.3 Receptors

The noise assessment was undertaken at façade receptor locations representing the nearest noise-sensitive residential properties to the proposed EG. Receptor positions were selected at the façades of the closest dwellings representing the locations most likely to experience noise from the proposed development.

The receptor coordinates and separation distances from the proposed EG are presented in Table 5-2.

Receptors were modelled at representative ground-floor and first-floor elevations to assess potential noise levels at habitable levels of the dwellings. Ground-floor receptors were modelled at approximately 1.5 m above local ground level, while first-floor receptors were positioned at representative upper-storey window height.

The receptor positions were located at the building façades and therefore represent façade exposure conditions. This approach is consistent with the assessment methodology described in BS 4142:2014+A1:2019 for the assessment of industrial and commercial sound at noise-sensitive receptors.

Table 5-2 Nearest Sensitive Receptors

Identification	Coordinates (ITM)		Distance from EG Unit (m)
R1	561976.6	794540.8	231
R2	561952.4	794529.2	242
R3	561937.1	794507.4	250
R4	561797.5	794393.3	352
R5	562034.9	794635	280
R6	562103.4	794667.1	288
R7	562170	794564.1	184
R8	562337.1	794570.8	260
R9	562396.4	794513.9	284
R10	562432.4	794301.3	292

Figure 5-1: Sensitive Receptor Locations



In addition to the residential receptors, supplementary receptor points were included in the model to facilitate the development of noise contour plots and to assess the spatial distribution of noise emissions from the noise sources.



6. Model Results

With the various noise sources defined, a model domain was established extending beyond the site boundary and centred on the proposed EG. Model predictions were undertaken for each relevant noise averaging period for which assessment criteria apply, as outlined in Section 1 of this report.

As this application relates solely to a single emergency generator, it is anticipated that noise generation during night-time periods will be significantly lower than the levels predicted in this assessment due to its proposed purpose as a back up. An impact assessment has been carried out using background noise measurements made in November 2025.

The following assumptions have been applied within the noise model:

- The installation has been modelled as operating continuously, 24 hours per day and 365 days per year. The generator has been conservatively assumed to be operational at all times.
- A sound pressure level was measured at 1 m from the EG equipment by the manufacturer. These measurements were subsequently used to derive source noise emissions for modelling purposes. The point source has been modelled as operating continuously at maximum emission levels.
- Predicted noise levels were calculated at façade receptor locations representative of the nearest noise-sensitive dwellings.



Table 6-1 Summary of Model Results

Receiver name	Floor	Day	Limit		Predicted Noise Impact			Day	Conflict	
			Evening	Night	Day	Evening	Night		Evening	Night
			dB(A)			dB(A)			dB	
1	Ground	55	50	45	35.3	35.3	35.3	None	None	None
	First	55	50	45	35.5	35.5	35.5	None	None	None
2	Ground	55	50	45	34.8	34.8	34.8	None	None	None
	First	55	50	45	35.0	35.0	35.0	None	None	None
3	Ground	55	50	45	35.1	35.1	35.1	None	None	None
	First	55	50	45	35.3	35.3	35.3	None	None	None
4	Ground	55	50	45	31.9	31.9	31.9	None	None	None
	First	55	50	45	32.0	32.0	32.0	None	None	None
5	Ground	55	50	45	36.0	36.0	36.0	None	None	None
	First	55	50	45	36.1	36.1	36.1	None	None	None
6	Ground	55	50	45	34.1	34.1	34.1	None	None	None
	First	55	50	45	34.3	34.3	34.3	None	None	None
7	Ground	55	50	45	38.4	38.4	38.4	None	None	None
	First	55	50	45	38.7	38.7	38.7	None	None	None
8	Ground	55	50	45	19.4	19.4	19.4	None	None	None
	First	55	50	45	20.0	20.0	20.0	None	None	None
9	Ground	55	50	45	20.1	20.1	20.1	None	None	None
	First	55	50	45	20.7	20.7	20.7	None	None	None
10	Ground	55	50	45	17.8	17.8	17.8	None	None	None
	First	55	50	45	18.1	18.1	18.1	None	None	None

Based on baseline noise measurements undertaken in November 2025, the minimum background noise levels (L_{A90}) of 38 dB(A) was measured in the vicinity of the installation. The baseline noise ranges from 38dB(A) at NSL 1 to 46dB(A) at NSL3.

For the purposes of this assessment, a conservative approach has been adopted whereby a fixed background sound level of 38 dB L_{A90} has been applied. This represents the lowest measured background level in the 2025 report and therefore provides a worst-case basis for assessment.



Table 6-2 Calculation of Rating Level at Receptors (BS 4142 Assessment)

Receptors	Modelled Specific Noise Level (L _{Aeq,1h}) dB	Penalty Rating	Calculated Rating Level, L _{A1} (dB)	Minimum Background Sound Level L _{A1(90)} 30 mins (dB)	Difference +/- (dB)
R1	35.5	None applied	35.5	38	-2.5
R2	35	None applied	35.0	38	-3.0
R3	35.3	None applied	35.3	38	-2.7
R4	32	None applied	32.0	38	-6.0
R5	36.1	None applied	36.1	38	-1.9
R6	34.3	None applied	34.3	38	-3.7
R7	38.7	None applied	38.7	38	0.7
R8	20	None applied	20.0	38	-18.0
R9	20.7	None applied	20.7	38	-17.3
R10	18.1	None applied	18.1	38	-19.9
Noise Significance Assessment from BS 4142					
≤ 0 dB			Low impact		
+5 dB			Indication of adverse impact		
≥ +10 dB			Indication of significant adverse impact		

The assessment was completed in accordance with the methodology outlined in EPA Guidance Note NG4 and the acoustic feature assessment procedures contained within BS 4142:2014+A1:2019.



Figure 6-1: Model Contours:





7. Conclusions

The assessment predicts a maximum specific sound level from the proposed emergency generator of 38.7 dB $L_{Aeq,T}$ at the most affected noise-sensitive receptor under the modelled worst-case operating scenario. This is approximately 0.7 dB above the adopted representative night-time background sound level of 38 dB $L_{A90,T}$, measured at NSL1.

In accordance with BS 4142:2014+A1:2019, a rating level that is broadly comparable with the existing background sound level does not, on the initial numerical assessment, indicate an adverse impact. Having regard to the small difference between the rating and background sound levels, the predicted impact is considered to be low, subject to the relevant context and the uncertainty associated with the assessment.

The assessment has been undertaken on a conservative basis, assuming that the proposed generator operates continuously at its maximum modelled sound emission level throughout the relevant assessment period. In practice, the generator is intended primarily for emergency backup purposes during interruptions to the national electricity supply, or where its operation is required to maintain essential site services. It is therefore expected to operate only intermittently and for substantially shorter durations than those assumed in the model.

Across the assessed receptors, the predicted rating levels range from approximately 19.9 dB below to 0.7 dB above the adopted background sound level. On this basis, operation of the proposed generator would not materially alter the existing acoustic environment or give rise to an adverse noise impact at nearby noise-sensitive receptors.

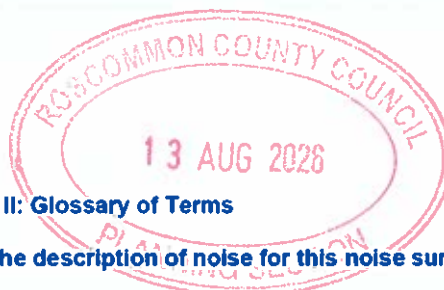
Accordingly, no additional noise mitigation measures are considered necessary, provided that the generator is installed and operated in accordance with the modelled specification and maintained in good acoustic and mechanical condition.

Parameter	Value
Background Sound Level (L_{A90})	38 dB
Highest Modelled Specific Sound Level	38.7 dB
Tonal Correction	0 dB
Impulsivity Correction	0 dB
Rating Level	38.7 dB
Difference	0.7 dB
Significance	Low impact
Noise Significance Assessment from BS 4142	
≤ 0 dB	Low impact
+5 dB	Indication of adverse impact
$\geq +10$ dB	Indication of significant adverse impact



Appendix I: NG4 Requirement for Noise Measurement Report:

Item	Section where this information is in the report
Manufacturer, model type and serial number of the sound level meter, calibrator and microphone used for annual survey.	Section 2 of Noise Report attached
The type of windshield and other microphone attachments used.	Section 2 of Noise Report attached
The date the equipment was last calibrated to a traceable standard.	Section 2 of Noise Report attached
A statement of on-site calibration before and after the measurements.	Section 2 of Noise Report attached
The frequency weighting networks and meter response time (i.e. fast or slow).	Section 2 of Noise Report attached
A description of the measurement site and of the range of sound sources including the type of sound (continuous, intermittent, impulsive, tonal).	Section 3 of Noise Report attached
Measures to exclude extraneous noise and reference to the methodologies followed throughout the survey.	Section 2 of Noise Report attached
A map of the measurement site showing the locations of the measurement positions.	Section 3 of Noise Report attached
Photographs illustrating the positioning of the sound level meter (recommended but optional).	Section 3 of Noise Report attached
Details of the intervening ground between sources and measurement positions and the presence of barriers etc.	Section 3 of Noise Report attached
The time and date of the measurement.	Section 4 of Noise Report attached
A description of the meteorological conditions.	Section 4 of Noise Report attached
The background noise level (where practicable).	Section 4 of Noise Report attached
Details of steps taken to reduce uncertainty.	Section 2 of Noise Report attached



Appendix II: Glossary of Terms

Note: Not all terms were used in the description of noise for this noise survey.

Ambient noise	The totally encompassing sound in a given situation at a given time, usually composed of sound from many sources, near and far.
Acoustic shadow	An acoustic shadow is an area through which sound waves fail to propagate, due to topographical obstructions or disruption of the waves via phenomena such as wind currents.
Background noise	The steady existing noise level present without contribution from any intermittent sources. The A weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90 per cent of a given time interval, T ($L_{AF90,T}$).
Broadband	Sounds that contain energy distributed across a wide range of frequencies.
Competent person	Individual possessing a combination of technical knowledge, experience and skills as outlined in Section 2.0 and who can demonstrate both practical and theoretical competence.
Criterion noise level	The long term mean value of the noise level that must not be exceeded. This is generally stipulated in the IPPC/Waste licence and it may be applied to a noise source, a boundary of the activity or to an NSL in the vicinity of the site.
dB	Decibel. The scale in which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the RMS pressure of the sound field and the reference pressure of 20 micro pascals (20 uPa).
Facade level	The noise level at a location 1m from the facade of a building is described by the term facade level, and is subject to a higher noise level than one in an open area (free-field conditions) due to reflection effects.
Free field	These are conditions in which the radiation from sound sources is unaffected by the presence of any reflecting boundaries or the source itself. In practice, it is a field in which the effects of the boundaries are negligible over the frequency range of interest. In environmental noise, true free-field measurement conditions are seldom achieved and generally the microphone will be positioned at a height between 1.2 and 1.5 metres above ground level. To minimise the influence of reflections, measurements are generally made at least 3.5 metres from any reflecting surface other than the ground.
Hertz (Hz)	The unit of sound frequency in cycles per second.
Impulsive	A noise that is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background.
$L_{Aeq,T}$	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T). The closer the L_{Aeq} value is to either the L_{AF10} or L_{AF90} value indicates the relative impact of the intermittent sources and their contribution. The relative spread between the values determines the impact of intermittent sources, such as traffic, on the background.
L_{AFN}	The A-weighted noise level exceeded for N% of the sampling interval. Measured using the "Fast" time weighting.
$L_{A,T}$	The Rated Noise Level, equal to the L_{Aeq} during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.
L_{AF10}	Refers to those A-weighted noise levels in the top 10 percentile of the sampling interval; it is the level which is exceeded for 10% of the measurement period. It is used to determine the intermittent high noise level features of locally generated noise and usually gives an indicator of the level of road traffic. Measured using the "Fast" time weighting.

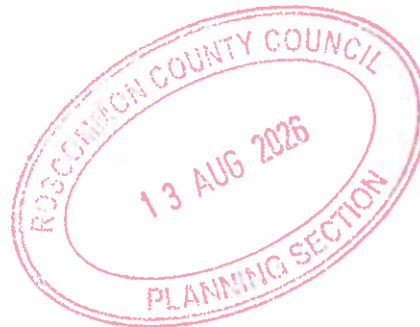


L_{AF90}	Refers to those A-weighted noise levels in the lower 90 percentile of the sampling interval; it is the level which is exceeded for 90% of the measurement period. It will therefore exclude the intermittent features of traffic and is used to describe a background level. Measured using the "Fast" time weighting.
L_{AFmax}	The maximum RMS A-weighted sound pressure level occurring within a specified time period. Measured using the "Fast" time weighting.
L_{AFmin}	The minimum RMS A-weighted sound pressure level occurring within a specified time period. Measured using the "Fast" time weighting.
L_{den}	Is the 24 hour noise rating level determined by the averaging of the L _{day} with the L _{evening} plus a 5 dB penalty and the L _{night} plus a 10 dB penalty.
Low background noise	An area of low background noise is one where the existing background noise levels measured during an environmental noise survey are as follows: - o Average Daytime Background Noise Level ≤40dB L_{AF90}, and; - o Average Evening Background Noise Level ≤35dB L_{AF90}, and; - o Average Night-time Background Noise Level ≤30dB L_{AF90}.
Low frequency noise	Noise which is dominated by frequency components less than approximately 200 Hz.
L_{pA} (dB)	An 'A-weighted decibel' K a measure of the overall level of sound across the audible frequency range (20Hz – 20kHz) with A-frequency weighting (i.e. 'A-weighting') to compensate for the varying sensitivity of the human ear to sound at different frequencies.
Noise	Any sound, that has the potential to cause disturbance, discomfort or psychological stress to a person exposed to it, or any sound that could cause actual physiological harm to a person exposed to it, or physical damage to any structure exposed to it, is known as noise.
Noise sensitive location	NSL – any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or other area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Octave band	A frequency interval, the upper limit of which is twice that of the lower limit. For example, the 1,000Hz octave band contains acoustical energy between 707Hz and 1,414Hz. The centre frequencies used for the designation of octave bands are defined in ISO and ANSI standards.
Rating level	See L _{A,T} .
RMS	The RMS (Root Mean Square) value of a set of numbers is the square root of the average of their squares.
SEL (L_{AX} or L_{AE})	Sound exposure level – a measure of the A-weighted sound energy used to describe noise events such as the passing of a train or aircraft; it is the A-weighted sound pressure level if occurring over a period of 1 second, would contain the same amount of A-weighted sound energy as the event.
Sound pressure level	Sound pressure refers to the fluctuations in air pressure caused by the passage of a sound wave. It may be expressed in terms of sound pressure level at a point.
Specific noise level	A component of the ambient noise which can be specifically identified by acoustical means and may be associated with a specific source. In BS 4142, there is a more precise definition as follows: 'the equivalent continuous A-weighted sound pressure level at the assessment position produced by the specific noise source over a given reference time interval (L _{Aeq,T})'.
Time weighting	One of the averaging times (Fast, Slow or Impulse) used for the measurement of RMS sound pressure level in sound level meters.
Tonal	Sounds which cover a range of only a few Hz which contains a clearly audible tone, i.e. distinguishable, discrete or continuous noise (whine, hiss, screech, or hum etc.) are referred to as being 'tonal'. A tone is

deemed to be present when the level difference between the Leq at the 1/3 octave band of the tone and each adjacent 1/3 octave band is greater than or equal to 15dB for low-frequencies (25Hz to 125Hz), 8dB for middle-frequencies (160Hz to 400Hz) or 5dB for high-frequencies (500Hz to 10,000Hz).

1/3 octave analysis

Frequency analysis of sound such that the frequency spectrum is subdivided into bands of one-third of an octave each.



Appendix III: 2025 Noise Report





Environmental Noise Report



Prepared for:
Aurivo Animal Feeds





Executive Summary

Aurivo Animal Feeds (Aurivo) is required as part of licence P1188-01; Conditions 4 and 6 to carry out a noise survey of the installation on an annual basis. AXIS Environmental Services were commissioned to complete the survey after proposal acknowledgment and acceptance by Aurivo Animal Feeds EHS Environmental Department. Daniel O'Connell carried out the survey on the 26th and 27th of November 2025.

The purpose of the survey was to monitor noise at predetermined locations and assess the sites compliance against P1188-01 Licence limits.

The survey was carried out in strict accordance with the standard ISO 1996 Parts 1 – 3, Acoustics – description, measurement and assessment of environmental noise. Reference was also made to the EPA guidelines NG4 "Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities" January 2016.

All operations at Aurivo Animal Feeds were running as normal throughout the survey. On this occasion, there was noise associated with traffic on the L1244 which passes adjacent to the north boundary line of Aurivo feeds and was a constant source of noise throughout surveying.

The main sources of noise audible on this occasion at each location were summarised in the relevant sections of this report.

The impact of road traffic noise was deemed a significant interference on the survey at certain locations as defined in the report. As outlined in the Standard ISO 1996 and the associated noise guidance document NG4 issued by the Agency in 2016, where traffic noise is unduly interfering with noise measurements, it is acceptable to take account of the L_{A90} when assessing compliance for the monitoring period. This is a statistical measurement of the noise level exceeded for 90% of the time at the monitoring point.

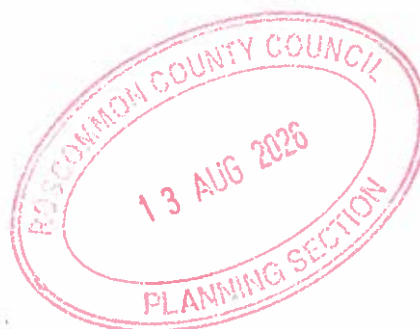
Three noise sensitive locations and two noise boundary points were assessed as part of this compliance environmental noise survey. The Licence assigned noise limits at the nearest noise sensitive receptors of 55 dB $L_{Aeq,T}$, 50 dB $L_{Aeq,T}$, and 45 dB $L_{Aeq,T}$ during the daytime, evening and night-time periods respectively. Furthermore, the Licence stipulates that there shall be no audible tonal or impulsive character to the noise emissions at any noise sensitive location surrounding the facility.

All monitoring points were determined to comply with P1188-01 licence requirements for noise measurements.

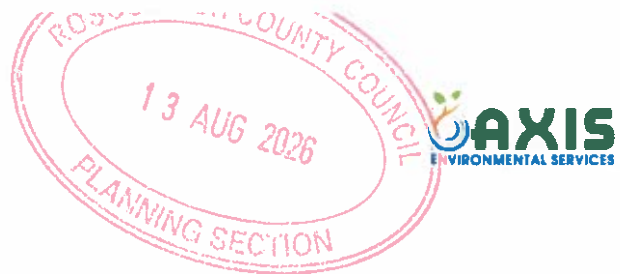
There were no clearly audible tonal or impulsive components noted at any of the noise sensitive locations.

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1. Introduction

As part of compliance monitoring at Aurivo, an annual noise survey is to be carried out at noise sensitive receptors in the vicinity of the site. The Environmental Protection Agency (EPA) and Aurivo have agreed on the monitoring points both inside and outside the boundary of the installation.

The Industrial Emissions (IE) Licence P1188-01 outlines Aurivo Animal Feeds requirements under Conditions 4 and 6 which have been documented as follows:

Condition 4:

4.5 Noise:

Noise from the installation shall not give rise to sound pressure levels that exceed the limit values specified in Schedule B.4 Noise Emissions of this licence measured at any noise sensitive location.

Condition 6:

6.14

The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the 'Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)' as published by the Agency.

B.4 Noise Emissions

Daytime dB L _{A,r,T} (30 minutes)	Evening time dB L _{A,r,T} (30 minutes)	Night time dB L _{A,r,T} (30 minutes)
55	50	45 Note 1

Note 1: There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise-sensitive location.



2. Methods

Monitoring was carried out in strict accordance with ISO 1996 Parts 1 – 3, Description and Measurement of Environmental Noise. Reference was also made to the EPA guidelines NG4 “Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities” January 2016.

Table 2-1: Equipment Details

Instrument Details	Meter No 6	Meter No 7
Manufacturer	Cirrus Optimus	Cirrus Optimus
Model	CR:171B	CR:171B
Serial Number	G303784	G303820
Firmware	V5.7.3228	V5.7.3251
Calibrator	CR:172B Acoustic Calibrator	CR:172B Acoustic Calibrator
Microphone	MK:216 413811B	MK:224 217815A
Preamplifier	MV:200F 12505F	MV:200F 12353F
Windshield Type	UA:237 90mm Foam Windshield	UA:237 90mm Foam Windshield
Meter Certificate Number	210825	209573
Meter Calibration Date	14 March 2024 - 2026	29 February 2024 - 2026
Microphone Identification	MK:216-413811B	MK:216-217815A
Microphone Certificate	210827	209575
Calibrator Number	CR515:99222	CR514:77525
Calibration Certificate	250551	237523
Calibrator Setting	94 dB	94 dB
Calibration Date	02 October 2025-2026	03 April 2025 - 2026
Pre / Post Cal Drift <0.5 dB	Yes	Yes
Response Time	Fast	Fast
Sound Pressure	A Weighting	A Weighting
Spectra	Unweighted	Unweighted



2.1 Laboratory and Field Calibration

Our sound level meters and portable calibrators are independently calibrated on an annual basis. Certificates of calibration for the specific equipment used in this survey are included in the appendix of this report. It is a requirement by all noise standards that an external laboratory must calibrate sound level meters and calibrators on a periodic basis. BS 7580:1997 Specification for the verification of sound level meters recommends, and it is the opinion of the EPA as defined in NG4:2016, that sound level meters should be verified at least every two years. Calibrators must be externally calibrated at least once a year. ISO 1996 recommends a time interval for testing of system performance at once a year, with a maximum allowable interval of 2 years.

The sound level meters are calibrated in the field prior to the measurement campaign with the calibrator. The sound level meter is then verified as fit for purpose, and post checks are carried out with the calibrator to confirm the meter remained within a quantified level of drift. Without any further adjustment, the difference between the readings of two consecutive checks must be less than or equal to 0.5 dB.

2.2 Measurement Condition

The instruments used for measuring sound pressure levels, including microphone, cables, windscreen, recording devices and other accessories, if used, meet the requirements for a class 1 instruments. A windscreen is always used during outdoor measurements to reduce the impact of wind on the microphone.

The installation's operating conditions must be representative of the noise environment under consideration, i.e. the licensed installation under assessment should be representative of normal operations for that activity. To obtain a reliable estimate of the equivalent-continuous sound pressure level, as well as the maximum sound pressure level, the measurement time intervals are measured as outlined by the licence conditions for day, evening and night time surveys.

It is a licence condition that during daytime and evening periods rigorous efforts should be made by the installation under assessment to avoid clearly audible tones and impulsive noise at all sensitive locations. A penalty of 5dB for tonal and/or impulsive elements is to be applied to the daytime and evening measured $L_{Aeq,T}$ values to determine the appropriate rating level ($L_{A,T}$). During the night-time period no tonal or impulsive noise from the facility should be clearly audible or measurable at any NSL.

2.3 Tonal Noise Assessment

Tonal noise was determined by frequency analysis (1/3 octave) for the noise measurements recorded at the monitoring locations during the noise survey.

This involved the analysis of the spectrum of noise levels recorded at each measurement location with respect to the frequencies (Hz) at which they occurred, in accordance with Section 5.1 of EPA guidance NG4.

One-third octave band tonal analysis was completed, using the calculation of an averaged noise level to represent the frequencies within each third of an octave. These noise levels were then compared with the noise levels calculated for the adjacent one-third octave bands. Further to EPA guidance NG4, a tonal noise can be objectively identified where the time-average sound pressure level in the one-third-octave band of interest exceeds the time-average sound pressure levels of both adjacent one-third-octave bands by a constant level difference as outlined below:



Table 2-2: NG4 Tonal Noise Assessment

Frequency Range	Units	Pressure Level Difference	Units
25 - 125	Hertz	15	dB
160 - 400	Hertz	8	dB
500 - 10,000	Hertz	5	dB
Period	Correction / Penalty to L_{Aeq} for produce $L_{Ar,T}$		
Day and Evening Time	5 dB		
Night Time	Tonal noise from the facility should not be audible at any NSL		

The one-third octave band data (plotted and tabulated) and tonal analysis is provided in this report.

2.4 Impulsive Characteristics

This is defined in NG4 as a noise that is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background. Normally an impulsive characteristic is determined subjectively as it is clearly audible. A noise source that attracts an impulsive characteristic will often be described as something with a thumping, banging or impact noise that is clearly audible above everything else. It is distinguished by a sharp rise in noise level.

There is no International Standard to detect impulsive sound using objective measurements. If impulsive sound occurs, the technician will identify the source and compare it to the list of impulsive sound sources in ISO 1996-1.

Table 2-3: NG4 Impulsive Noise Assessment

Period	Correction / Penalty to L_{Aeq} for produce $L_{Ar,T}$
Day and Evening Time	5 dB
Night Time	Impulsive noise from the facility should not be audible at any NSL

2.5 Extraneous Sources

The report clearly interprets the noise results and highlights whether noise from the activity or extraneous noise sources are the dominant contributors to the noise levels measured. This interpretation is based on the various noise measurements and any comments included on the dominant and/or intermittent sources of noise at the various measurement locations.

On some sites, extraneous noise sources unconnected with the activity under consideration will unduly influence the measurements. In such situations, every effort should be made to ascertain the site-specific noise level by following the approach set out in EPA guidance note NG4. Where findings remain inconclusive in this regard, it is appropriate to take into account the $L_{AF90,T}$ indicator which seeks to exclude transient noise sources such as occasional traffic, and to include all background sources contributing to the noise level at the monitoring point. For example, if a measurement location is situated near to a busy road, the $L_{AF90,T}$ indicator would provide a more accurate representation of the magnitude of all of the background sources contributing to the noise level at the monitoring point through the exclusion of contributions attributable to vehicle pass-bys. If the L_{A90} is used in this report for compliance assessment, the reasons for the use of $L_{AF90,T}$ are presented in the tables in order to ensure that its use is justified.

Local intermittent sources such as pedestrians passing the meters can be excluded where possible during the measurement. Any locations that are adjacent to regional and national roads and it was not possible to exclude these sources from the measurements effectively, then use of the L_{A90} metric can be used in the data interpretation to account for these sources, where appropriately supported by instantaneous readings.



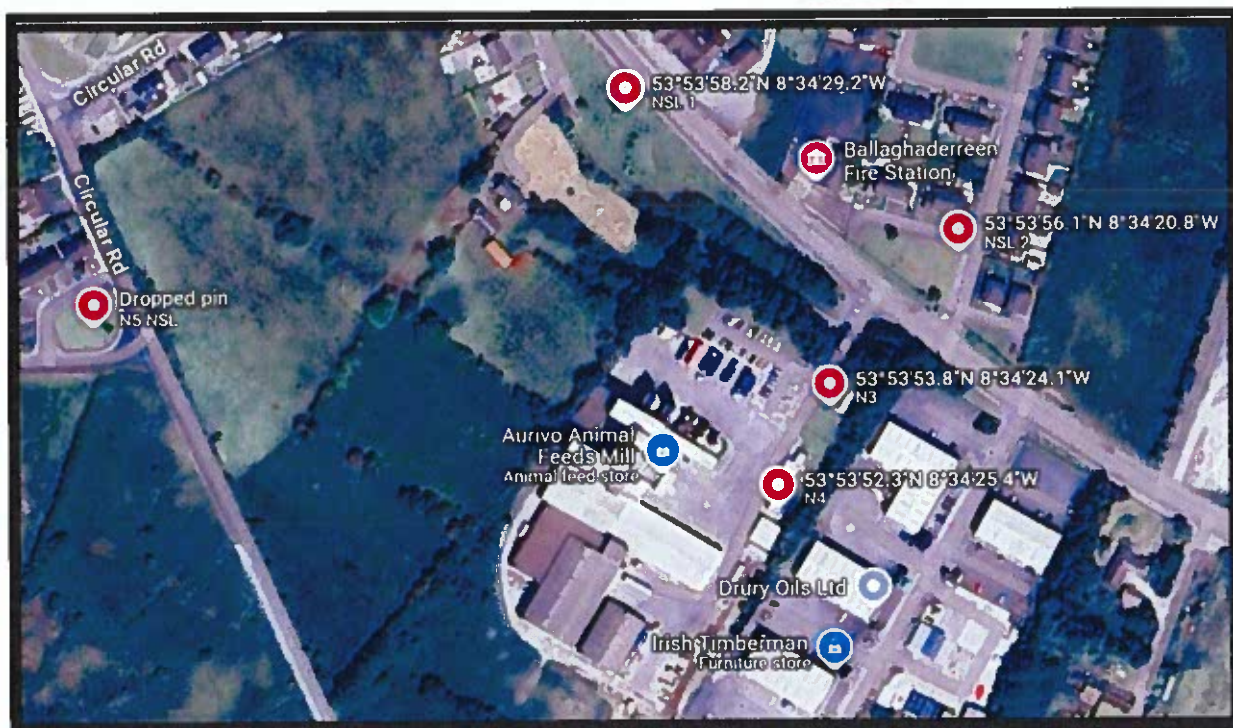
The microphone will always be located at least 1.2 m away from vegetative or trees which would generate wind-blown sound, unless otherwise noted in the report. The only reason this would not be applied is if the scenario was not possible at the agreed noise measurement location.

In all cases, the microphone will be installed in free-field conditions to remove reflection contribution, unless otherwise noted in the report.

The uncertainty in taking measurements is reduced through replication of the same equipment and microphone positioning.

3. Monitoring Locations

Figure 3-1: Location of Monitoring Points





3.1 NSL 1

3.1.1 Daytime Noise

This monitoring point is located to the northwest of Aurivo Animal Feeds. It is situated in a green area adjacent to a row of residential dwellings along the L1244 road.

Traffic was the main source of noise. The L1244 was very busy during the recording period with a mix of vehicles using the road. There is also a footpath adjacent to the location which saw sporadic movements of people, walking on foliage causing elevated noise levels. Church bells were audible occasionally in the distance. Aurivo was faintly audible during lulls in the traffic.

3.1.2 Evening Time Noise

The L1244 was the main source of external noise although traffic volumes were less than the daytime. The plant was faintly audible at this time.

3.1.3 Night Time Noise

Traffic on the road was again infrequent. Winds remained as strong as earlier and raindrops falling from the trees and hitting the ground, after a brief but heavy burst of rain in the hour preceding this recording period, may have affected results. Aurivo was not audible at this time.

Table 3-1: NSL 1

Location: NSL 1	Co-ordinates: 53°53'58.2"N 8°34'29.2"W
	



3.2 NSL2

3.2.1 Daytime Noise

This monitoring point was located to the north of Aurivo. This point was located at the entrance to the meadows housing estate.

Traffic was the main source of noise throughout the assessment. Road traffic movements were observed to be passing continuously throughout on the L1244 and with cars also entering and leaving the estate. A faint humming sound was noted coming from the Aurivo Feeds facility during lulls in traffic.

3.2.2 Evening Time Noise

Traffic on the adjacent L1244 was again the main source of noise although volumes of traffic were less frequent than during the daytime. Cars entering and exiting the estate were also noted but only sporadically in nature. A radio playing on a loudspeaker was audible for the duration of the monitoring period, at a different facility across the road, unrelated to Aurivo Feeds. A faint humming noise from the plant was audible during the recording period.

3.2.3 Night Time Noise

Sporadic passing of cars on the adjacent road was noted. A humming noise from the plant was faintly audible during the recording period. A humming noise from another plant nearby was also noted.

Table 3-2: NSL2

Location: NSL2	Co-ordinates: 53°53'56.1"N 8°34'20.8"W
	

3.3 NSL5

3.3.1 Daytime Noise

The monitoring point was located approximately 200m to the west of the site, on a green area in front of a housing estate.

The main source of noise was road traffic from the nearby circular road, station view and adjacent residential estate. A faint operational hum from Aurivo when road traffic in the area ceased.

3.3.2 Evening Time Noise

The main source of noise during the evening survey was road traffic from the nearby circular road, station view and nearby estate. Aurivo was not audible during this period.

3.3.3 Night Time Noise

Infrequent traffic from the nearby circular road was the main sources of noise. This included 3 HGV's noted near the end of the monitoring period. Rain fell throughout the monitoring period with particular intensity at 23.35 until the end of the monitoring period. Aurivo was not audible during this period.

Table 3-3: NSL5

Location: NSL5	Co-ordinates: 53°53'55.0"N 8°34'42.7"W
	



3.4 N3

3.4.1 Daytime Noise

This monitoring point is located at a point to the left of the main entrance.

There is a weighbridge and a security barrier adjacent to this location and so HGVs were stationary at this point for up to 3 - 5 minutes at a time. Traffic was moderate and audible on the nearby L1244 and would have influenced the results. An operational humming noise from the site was audible.

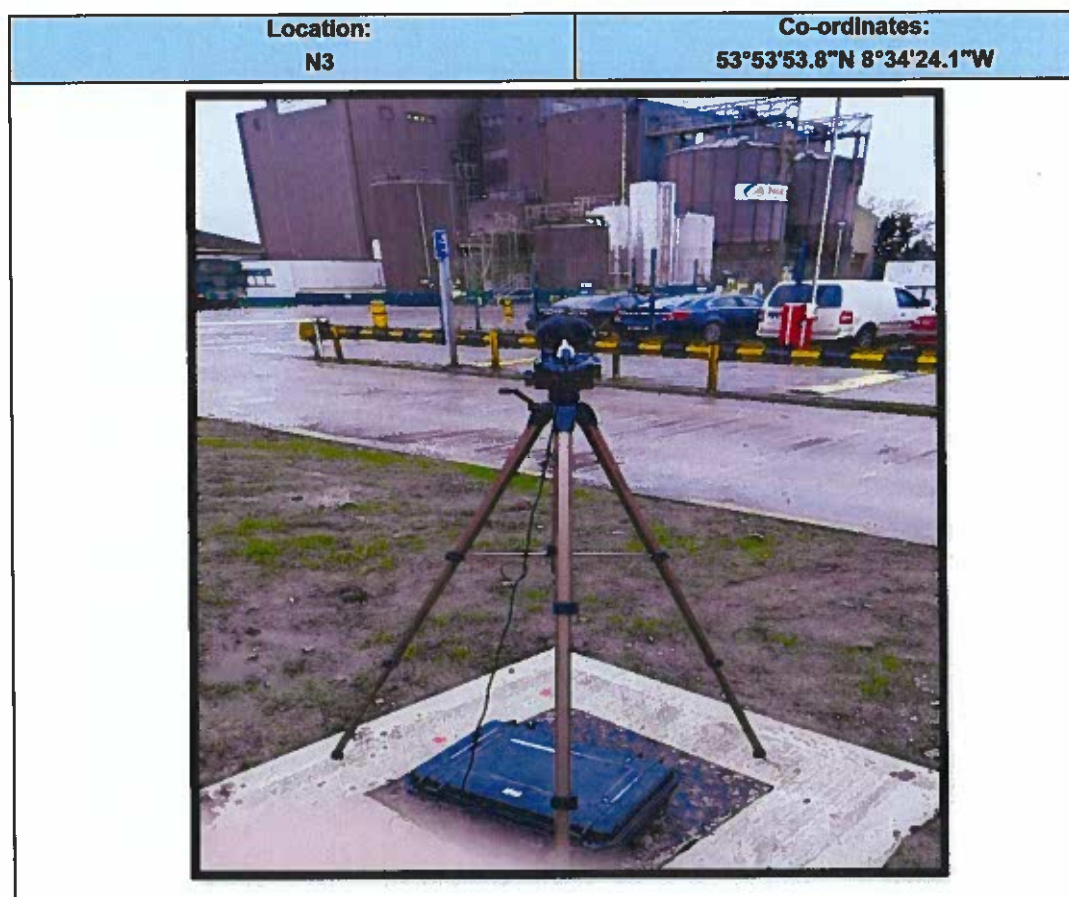
3.4.2 Evening Time Noise

HGVs entering and exiting the site were again the main sources of noise although the volume of these was much reduced from daytime monitoring. A faint operational hum was noted from the site.

3.4.3 Night Time Noise

Traffic was the main source of noise. Occasional gusts of wind were audible in the first half an hour of monitoring and eased off towards the end. A faint operational humming noise was audible during the monitoring period.

Table 3-4: N3





3.5 N4

3.5.1 Daytime Noise

This monitoring location is situated at the eastern point of the facility.

There was a large amount of site activity from HGV's driving around the site as well as a front loader operating inside a nearby shed approximately 80 meters away which produced a frequent, audible reversing warning tone. The washing point for HGV's was also located nearby, approximately 70 meters away and activity here increased from 15.30 onwards. The HGVs were being power washed. There was an operational humming noise from Aurivo throughout the monitoring period.

3.5.2 Evening Time Noise

Predominant sources of noise were associated with movements of HGV's and the front loader, but these were sporadic throughout the monitoring period with two movements noted at the end of the monitoring period. There was an operational humming noise from Aurivo throughout the monitoring period.

3.5.3 Night Time Noise

The front loader was the main source of noise in the first 30 minutes of monitoring but ceased operating at approximately 02.00. The operator then began to sweep out the shed until the end of the monitoring period. Aurivo was faintly audible during this time.

Table 3-5: N4

Location: N4	Co-ordinates: 53°53'52.3"N 8°34'25.4"W
	



4. Summary of Noise Measurements

Table 4-1: NSL 1 Broadband Measurements

Noise Monitoring Location: NSL 1 Noise Sensitive Location 26-11-2025 – 27-11-2025						
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)				Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	L _{A10}	
Daytime:	13.06	57	75	50	62	Traffic was the main source of noise. The L1244 was very busy during the recording period with a mix of vehicles using the road. There is also a footpath adjacent to the location which saw sporadic movements of people, walking on foliage causing elevated noise levels. Church bells were audible occasionally in the distance. Aurivo was faintly audible during lulls in the traffic.
	13.36	59	76	51	63	
	14.06	58	73	49	61	
Arithmetic Average (dB):		58	75	50	62	
Noise Associated with Site (dB):		50				
Daytime Criterion, dB L _{A,T} :		55				
Evening:	21.08	52	67	46	54	The L1244 was the main source of noise although traffic volumes were less than the daytime. The site was faintly audible at this time.
Arithmetic Average (dB):		52	67	46	54	
Noise Associated with Site (dB):		46				
Evening Criterion, dB L _{A,T} :		50				
Night Time:	00.19	48	65	38	48	Traffic on the road was again infrequent. Winds remained as strong as earlier and raindrops falling from the trees and hitting the ground, after a brief but heavy burst of rain in the hour preceding this recording period, may have affected results. Aurivo was not audible at this time.
	00.49	43	63	38	43	
Arithmetic Average (dB):		46	64	38	46	
Noise Associated with Site (dB):		<38				
Night time Criterion, dB L _{A,T} :		45				
Weather Conditions:						
	Daytime:		Evening:		Night Time:	
Temperature (°C)	13°		12°		12°	
Wind Speed (m/s)	1.1		2.4		4.2	
Wind Direction:	E		NE		NE	
Precipitation (mm):	0		0		1.1	
Tonal Noise Assessment						
Daytime:	None		None		None	
Evening:	None		-		-	
Nighttime:	None		None		-	
Compliance Status – By definition of the license, this monitoring point would be considered a noise sensitive location. The site was deemed compliant with licence requirements.						



Table 4-2: NSL 1 Tonal Noise Assessment

Band	Day	Evening	Night
6.3 Hz	61.9	60.9	59.7
8 Hz	61.4	61.4	59.5
10 Hz	60.2	59.7	59.2
12.5 Hz	59.5	60.1	58.2
16 Hz	58.7	60.1	57.6
20 Hz	57.3	58.6	55.7
25 Hz	63.4	62.0	54.1
31.5 Hz	58.0	58.6	51.5
40 Hz	57.3	55.6	50.2
50 Hz	60.5	56.1	49.6
63 Hz	58.6	54.2	48.7
80 Hz	55.9	52.9	45.8
100 Hz	54.6	48.1	45.0
125 Hz	53.6	46.8	42.8
160 Hz	52.5	45.5	38.8
200 Hz	52.3	45.5	38.8
250 Hz	51.8	45.9	39.5
315 Hz	50.4	45.1	38.9
400 Hz	49.8	47.1	37.8
500 Hz	50.0	46.4	37.9
630 Hz	48.1	42.0	35.6
800 Hz	49.2	41.8	36.6
1 kHz	50.7	42.1	37.3
1.25 kHz	49.1	40.8	36.0
1.6 kHz	48.4	39.8	35.1
2 kHz	47.1	38.7	34.1
2.5 kHz	45.3	37.3	32.9
3.15 kHz	44.5	36.0	32.0
4 kHz	43.2	34.5	30.5
5 kHz	40.4	32.3	28.0
6.3 kHz	37.8	29.5	25.4
8 kHz	34.5	25.7	22.3
10 kHz	28.9	21.4	18.9
12.5 kHz	22.8	19.2	18.3
16 kHz	21.1	20.5	20.2
20 kHz	24.0	23.9	23.6



Fig 4-1 NSL 1 Frequency Analysis

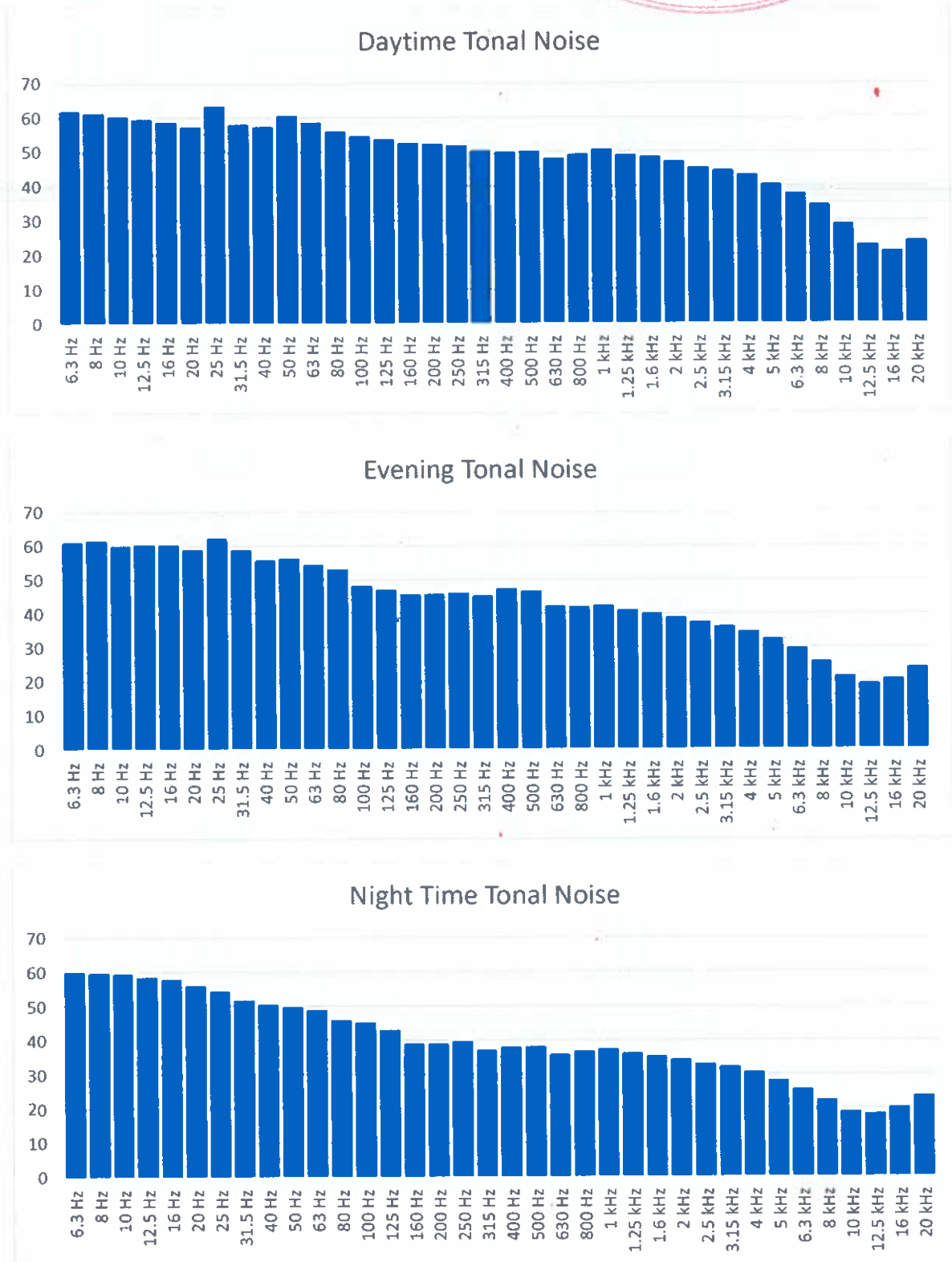




Table 4-3: NSL2 Broadband Measurements

Noise Monitoring Location: NSL2 Noise Sensitive Location 26-11-2025 – 27-11-2025						
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)				Comments
		L _{Aeq}	L _{AfMAX}	L _{A90}	L _{A10}	
Daytime:	13.18	62	75	55	65	Traffic was the main source of noise throughout the assessment. Road traffic movements were observed to be passing continuously throughout on the L1244 and with cars also entering and leaving the estate. A faint humming sound was noted coming from the Aurivo Feeds facility during lulls in traffic.
	13.48	61	73	54	64	
	14.18	60	73	53	64	
Arithmetic Average (dB):		61	74	54	64	
Noise Associated with Site (dB):		54				
Daytime Criterion, dB L _{A,T} :		55				
Evening:	20.51	59	77	50	62	Traffic on the adjacent L1244 was the main source of noise. Cars entering and exiting the estate were also noted but only sporadically. A radio playing on a loudspeaker was audible for the duration of the monitoring period, at a different facility across the road, unrelated to Aurivo. A faint humming noise from the site was audible.
Arithmetic Average (dB):		59	77	50	62	
Noise Associated with Site (dB):		50				
Evening Criterion, dB L _{A,T} :		50				
Night Time:	00.14	74	74	44	59	
	00.44	52	74	43	53	
Arithmetic Average (dB):		71	74	43	57	Sporadic passing of cars on the adjacent road was noted. A humming noise from the plant was faintly audible during the recording period. A humming noise from another plant nearby was also noted.
Noise Associated with Site (dB):		43				
Night time Criterion, dB L _{A,T} :		45				
Weather Conditions:						
	Daytime:		Evening:		Night Time:	
Temperature (°C)	13°		12°		12°	
Wind Speed (m/s)	1.1		2.4		4.2	
Wind Direction:	E		NE		NE	
Precipitation (mm):	0		0		1.1	
Tonal Noise Assessment						
Daytime:	None		None		None	
Evening:	None		-		-	
Nighttime:	None		None		-	
Compliance Status – By definition of the license, this monitoring point would be considered a noise sensitive location. The site was deemed compliant with licence requirements.						



Table 4-4: NSL2 Tonal Noise Assessment

Band	Day	Evening	Night
6.3 Hz	68.8	76.5	73.9
8 Hz	68.5	75.9	73.2
10 Hz	68.0	74.8	72.2
12.5 Hz	66.8	74.0	70.9
16 Hz	66.2	73.2	69.5
20 Hz	65.1	71.8	67.9
25 Hz	66.2	70.6	66.9
31.5 Hz	67.9	69.3	65.5
40 Hz	64.0	67.5	63.5
50 Hz	64.8	66.8	62.5
63 Hz	63.5	65.9	61.0
80 Hz	59.8	63.9	59.1
100 Hz	58.3	63.0	58.1
125 Hz	56.8	61.4	57.0
160 Hz	54.2	59.8	55.6
200 Hz	53.2	58.8	54.6
250 Hz	52.2	57.5	53.3
315 Hz	50.3	55.3	51.2
400 Hz	53.2	54.4	49.9
500 Hz	52.2	53.2	48.5
630 Hz	50.3	49.3	45.3
800 Hz	53.2	48.6	44.5
1 kHz	53.7	48.3	44.3
1.25 kHz	51.9	46.5	42.5
1.6 kHz	50.1	44.4	41.1
2 kHz	48.2	42.4	39.2
2.5 kHz	46.1	40.3	37.3
3.15 kHz	44.3	38.6	36.2
4 kHz	42.9	37.3	35.2
5 kHz	40.7	35.4	33.5
6.3 kHz	38.3	32.8	31.1
8 kHz	35.1	29.6	28.8
10 kHz	30.9	26.1	25.6
12.5 kHz	25.6	24.7	23.1
16 kHz	22.3	26.0	23.8
20 kHz	24.2	29.4	26.7

Fig 4-2 NSL2 Frequency Analysis

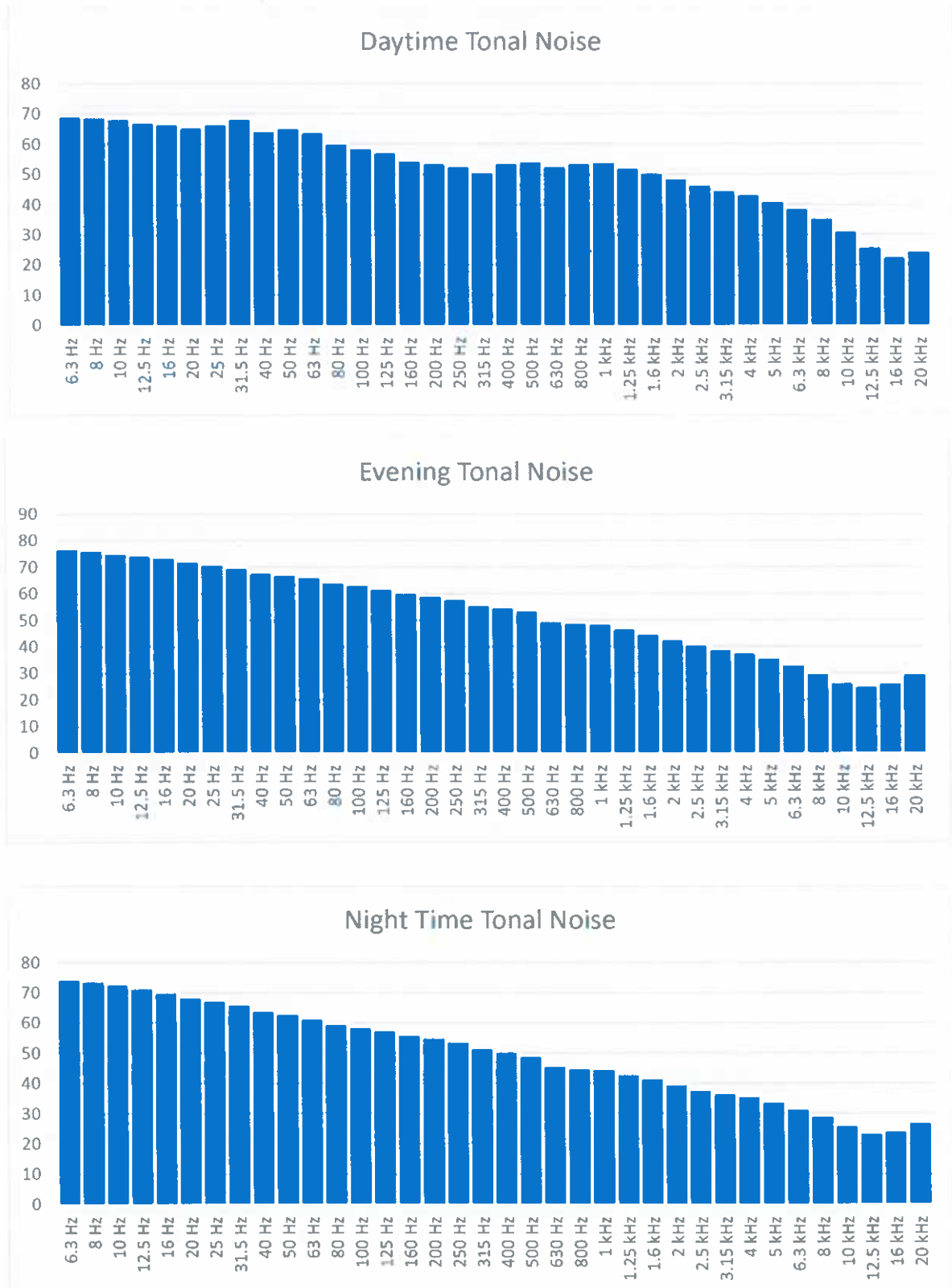




Table 4-5: NSL5 Broadband Measurements

Noise Monitoring Location: NSL5 Noise Boundary Location 26-11-2025 – 27-11-2025						
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)				Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	L _{A10}	
Daytime:	11.26	54	83	42	57	The main source of noise was road traffic from the nearby circular road, station view and adjacent residential estate. A faint operational hum from Aurivo when road traffic in the area ceased.
	11.56	53	70	41	56	
	12.26	53	70	42	56	
Arithmetic Average (dB):		53	79	42	56	
Noise Associated with Site (dB):		42				
Daytime Criterion, dB L _{A,T} :		55				
Evening:	22.17	58	79	45	62	The main source of noise during the evening survey was road traffic from the nearby circular road, station view and nearby estate. Aurivo was not audible during this period.
Arithmetic Average (dB):		58	79	45	62	
Noise Associated with Site (dB):		<45				
Evening Criterion, dB L _{A,T} :		50				
Night Time:	23.04	63	83	44	66	Infrequent traffic from the nearby circular road was the main sources of noise. This included 3 HGV's noted near the end of the monitoring period. Rain fell throughout the monitoring period with particular intensity at 23.35 until the end of the monitoring period. Aurivo was not audible during this period.
	23.34	63	84	45	67	
Arithmetic Average (dB):		63	84	44	66	
Noise Associated with Site (dB):		<44				
Night time Criterion, dB L _{A,T} :		45				
Weather Conditions:						
	Daytime:		Evening:		Night Time:	
Temperature (°C)	13°		12°		12°	
Wind Speed (m/s)	1.1		2.4		4.2	
Wind Direction:	E		NE		NE	
Precipitation (mm):	0		0		1.1	
Tonal Noise Assessment						
Daytime:	None		None		None	
Evening:	None		-		-	
Nighttime:	None		None		-	
Compliance Status – By definition of the license, this monitoring point would be considered a noise sensitive location. The site was deemed compliant with licence requirements.						

Table 4-6: NSL5 Tonal Noise Assessment

Band	Day	Evening	Night
6.3 Hz	63.9	80.6	80.6
8 Hz	63.2	81.0	81.1
10 Hz	61.4	80.9	81.0
12.5 Hz	60.3	80.9	80.9
16 Hz	58.7	80.2	80.5
20 Hz	57.5	79.3	79.7
25 Hz	59.8	78.4	79.4
31.5 Hz	59.2	77.4	78.6
40 Hz	60.2	75.7	77.4
50 Hz	60.5	74.0	76.2
63 Hz	59.4	72.1	74.9
80 Hz	54.2	69.6	73.1
100 Hz	50.9	67.1	71.5
125 Hz	48.8	64.3	69.3
160 Hz	44.8	60.8	66.7
200 Hz	41.0	57.9	64.6
250 Hz	39.7	55.5	62.2
315 Hz	39.8	53.5	59.6
400 Hz	42.2	52.6	57.2
500 Hz	43.2	51.7	54.5
630 Hz	44.1	49.8	51.8
800 Hz	45.5	47.2	49.1
1 kHz	46.5	48.3	45.7
1.25 kHz	44.5	39.8	41.8
1.6 kHz	43.6	37.4	38.9
2 kHz	41.7	35.5	37.0
2.5 kHz	39.6	33.8	35.1
3.15 kHz	37.8	32.9	34.7
4 kHz	35.8	31.7	34.3
5 kHz	33.9	30.2	32.8
6.3 kHz	32.5	29.2	32.2
8 kHz	29.6	27.9	31.0
10 kHz	24.4	27.2	29.8
12.5 kHz	21.2	28.3	29.5
16 kHz	21.2	30.3	30.7
20 kHz	23.8	33.8	33.8

Fig 4-3 NSL5 Frequency Analysis

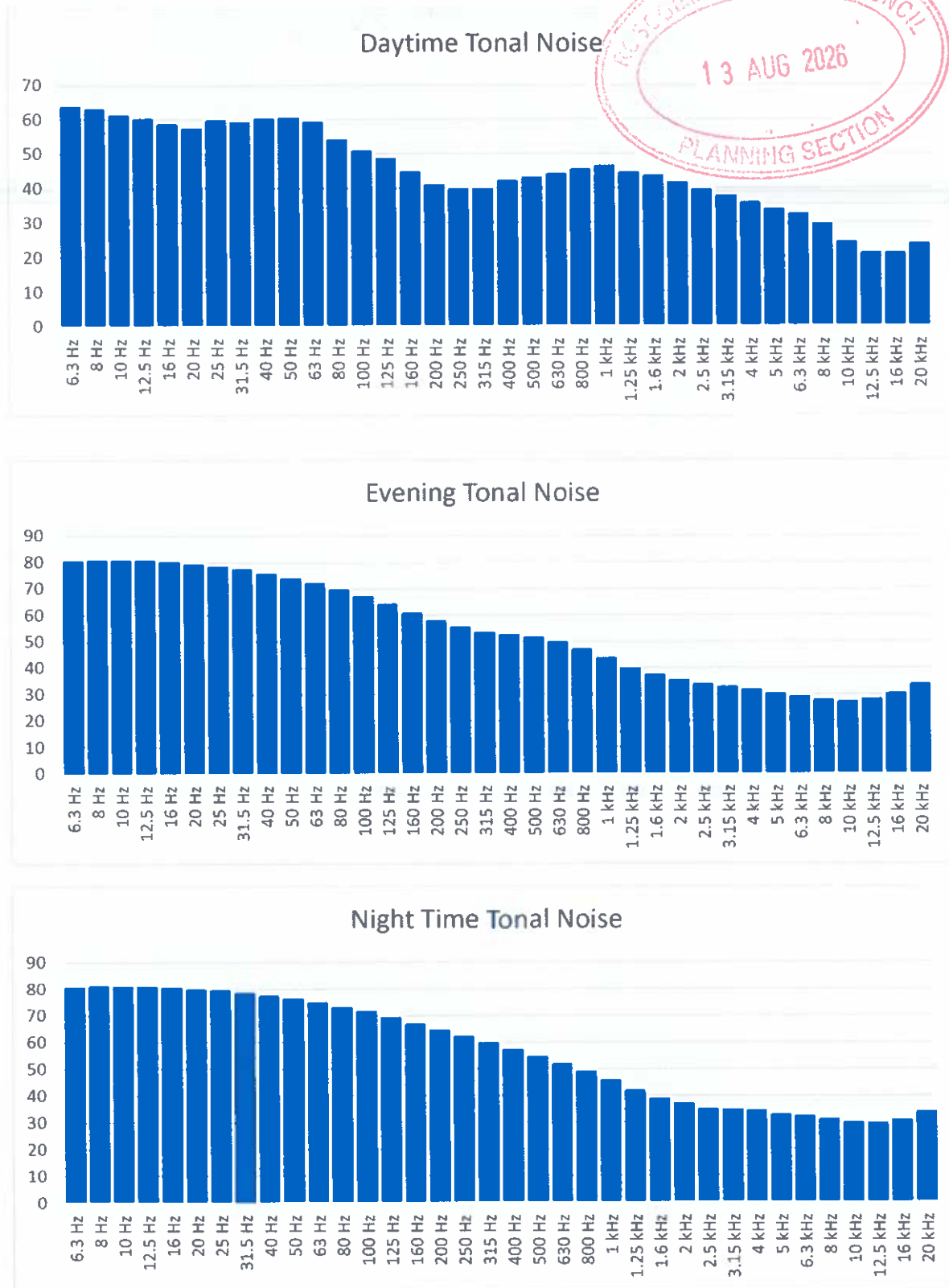




Table 4-7: N3 Broadband Measurements

Noise Monitoring Location: N3 Noise Boundary Location 26-11-2025 – 27-11-2025						
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)				Comments
		L _{Aeq}	L _{AfMAX}	L _{A90}	L _{A10}	
Daytime:	14.44	61	84	56	61	There is a weighbridge and a security barrier adjacent to this location and so HGVs were stationary at this point for up to 3 - 5 minutes at a time. Traffic was moderate and audible on the nearby L1244 and would have influenced the results. An operational humming noise from the site was audible.
	15.14	61	84	57	63	
	15.44	64	86	58	68	
Arithmetic Average (dB):		62	85	57	65	
Noise Associated with Site (dB):		62				
Daytime Criterion, dB L _{A,T} :		-				
Evening:	20.15	68	83	55	72	HGVs entering and exiting the site were again the main sources of noise although the volume of these was much reduced from daytime monitoring. A faint operational hum was noted from the site.
Arithmetic Average (dB):		68	83	55	72	
Noise Associated with Site (dB):		68				
Evening Criterion, dB L _{A,T} :		-				
Night Time:	01.29	65	105	50	55	
	01.59	54	64	52	54	
Arithmetic Average (dB):		62	84	51	54	
Noise Associated with Site (dB):		62				
Night time Criterion, dB L _{A,T} :		-				
Weather Conditions:						
	Daytime:		Evening:		Night Time:	
Temperature (°C)	13°		12°		12°	
Wind Speed (m/s)	1.1		2.4		4.2	
Wind Direction:	E		NE		NE	
Precipitation (mm):	0		0		1.1	
Tonal Noise Assessment						
Daytime:	None		None		None	
Evening:	None		-		-	
Nighttime:	None		None		-	
Compliance Status – By definition of the license, this monitoring point would not be considered a noise sensitive location. The location does not have to comply with licence requirements.						

Table 4-8: N3 Tonal Noise Assessment

Band	Day	Evening	Night
6.3 Hz	68.6	79.7	67.6
8 Hz	68.7	79.5	67.5
10 Hz	66.8	78.6	66.5
12.5 Hz	66.2	78.3	66.0
16 Hz	64.6	77.7	65.0
20 Hz	64.0	76.7	63.5
25 Hz	70.0	75.8	65.3
31.5 Hz	69.8	74.1	61.4
40 Hz	67.3	72.6	61.7
50 Hz	66.3	71.8	63.0
63 Hz	63.0	70.9	61.1
80 Hz	60.5	69.9	58.5
100 Hz	62.3	69.3	58.3
125 Hz	59.3	68.6	58.8
160 Hz	55.8	68.1	57.0
200 Hz	54.6	67.9	54.9
250 Hz	54.9	67.6	52.8
315 Hz	55.8	66.5	52.5
400 Hz	55.7	65.0	52.2
500 Hz	55.0	62.7	50.0
630 Hz	54.6	59.2	47.7
800 Hz	53.1	55.6	49.6
1 kHz	52.9	51.9	53.0
1.25 kHz	52.7	47.8	52.3
1.6 kHz	51.5	44.2	50.8
2 kHz	50.2	41.0	52.1
2.5 kHz	49.0	38.8	51.4
3.15 kHz	47.2	37.2	51.9
4 kHz	44.8	36.2	51.2
5 kHz	43.3	34.2	46.3
6.3 kHz	40.8	31.5	49.3
8 kHz	37.5	28.5	46.8
10 kHz	34.0	26.8	40.7
12.5 kHz	30.4	27.8	43.1
16 kHz	28.5	29.8	42.7
20 kHz	28.4	33.2	34.5





Fig 4-4 N3 Frequency Analysis

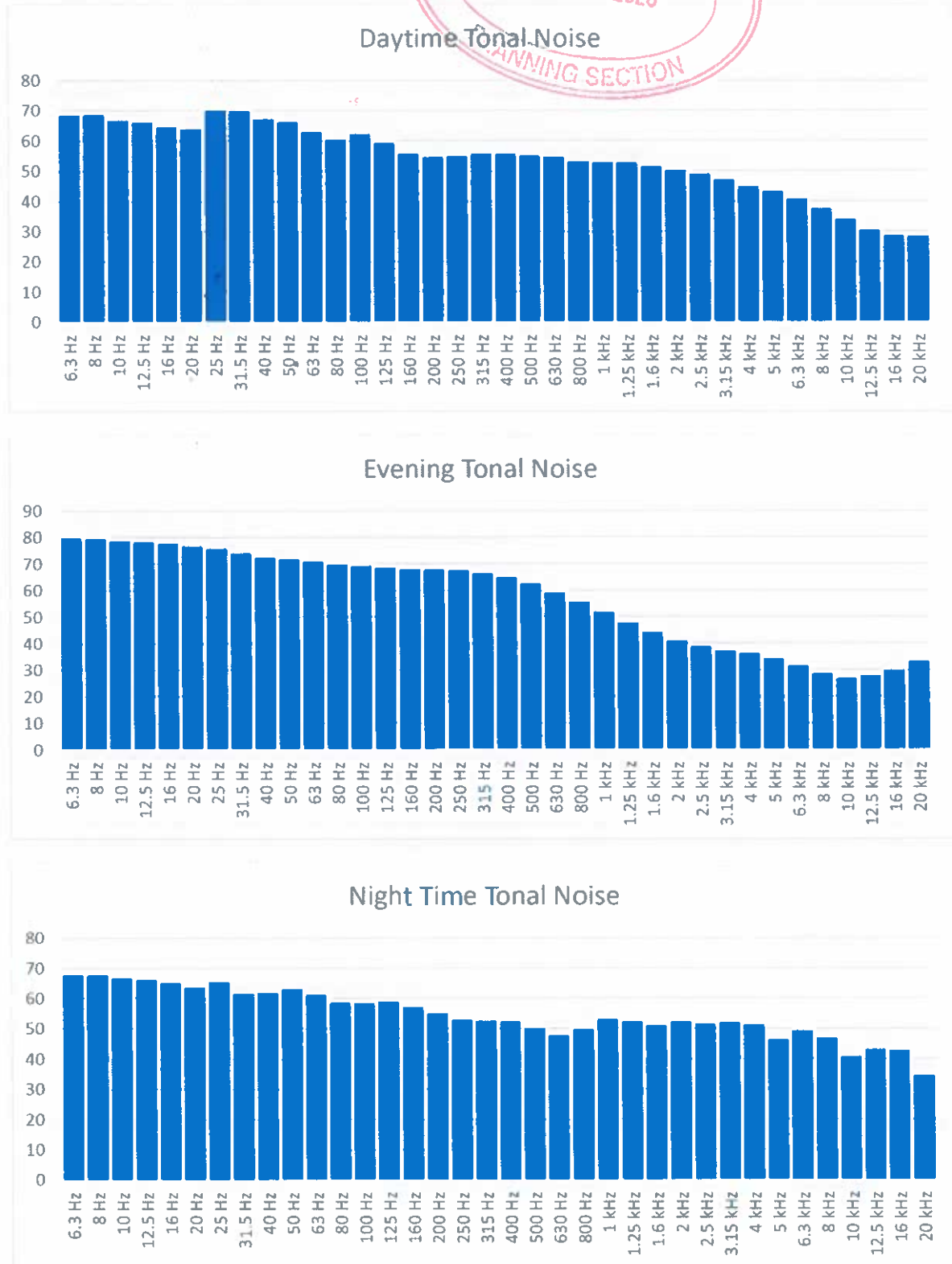




Table 4-9: N4 Broadband Measurements

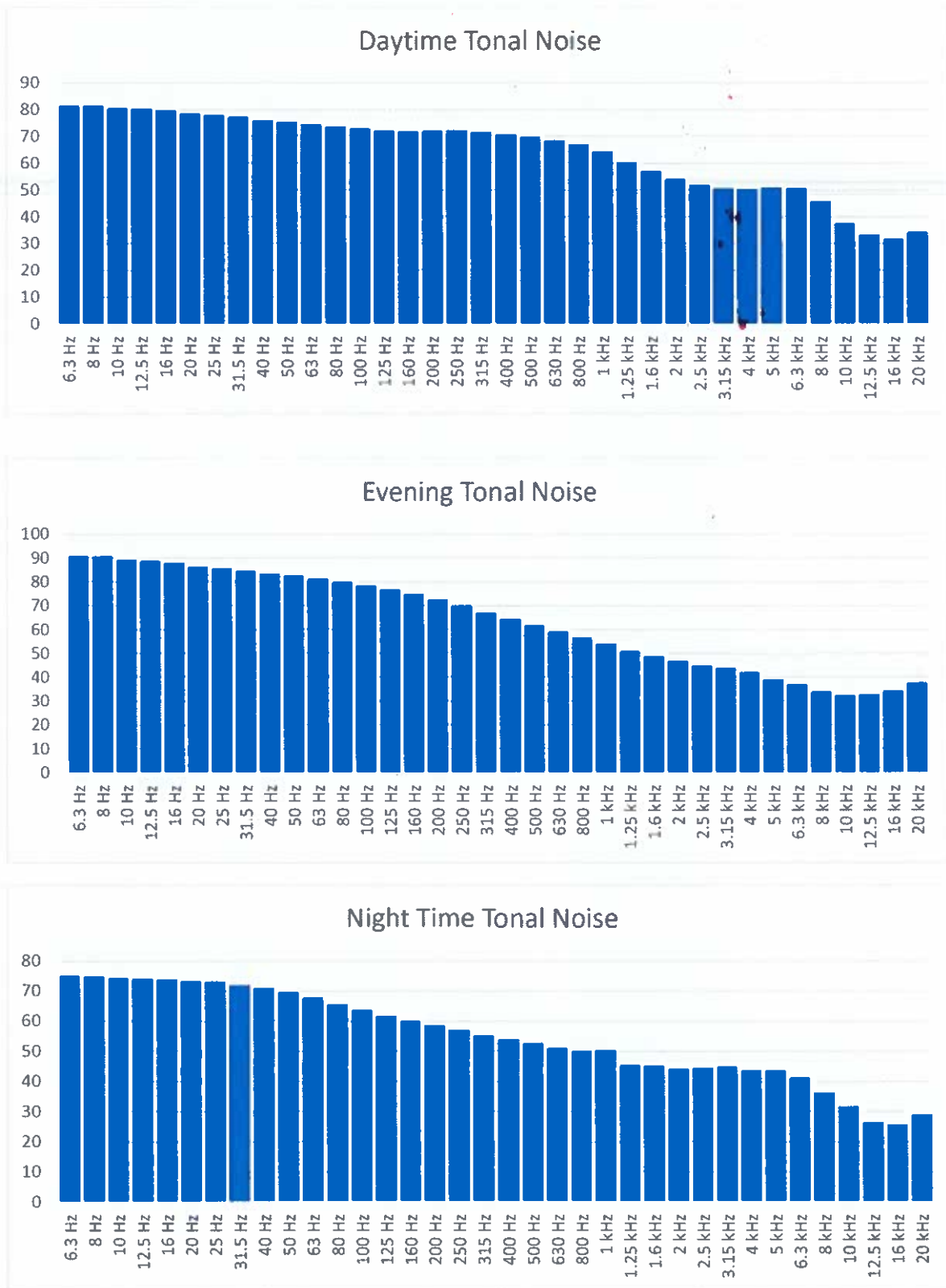
Noise Monitoring Location: N4 Noise Boundary Location 25-11-2025 – 28-11-2025						
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)				Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	L _{A10}	
Daytime:	14.56	64	88	53	65	There was a large amount of site activity from HGV's driving around the site as well as a front loader operating. The washing point for HGV's was also located nearby, approximately 70 meters away and activity here increased from 15.30 onwards. The HGVs were being power washed. There was an operational humming noise from Aurivo throughout the monitoring period.
	15.26	75	92	53	79	
	15.56	78	95	64	81	
Arithmetic Average (dB):		75	92	60	78	
Noise Associated with Site (dB):		75				
Daytime Criterion, dB L _{A,T} :		-				
Evening:	21.34	70	89	56	74	Predominant sources of noise were associated with movements of HGV's and the front loader, but these were sporadic throughout the monitoring period with two movements noted at the end of the monitoring period. There was an operational humming noise from Aurivo throughout the monitoring period.
Arithmetic Average (dB):		70	89	56	74	
Noise Associated with Site (dB):		70				
Evening Criterion, dB L _{A,T} :		-				
Night Time:	01.38	61	88	49	61	
	02.08	58	80	45	63	
Arithmetic Average (dB):		60	86	47	62	
Noise Associated with Site (dB):		60				
Night time Criterion, dB L _{A,T} :		-				
Weather Conditions:						
	Daytime:		Evening:		Night Time:	
Temperature (°C)	13°		12°		12°	
Wind Speed (m/s)	1.1		2.4		4.2	
Wind Direction:	E		NE		NE	
Precipitation (mm):	0		0		1.1	
Tonal Noise Assessment						
Daytime:	None		None		None	
Evening:	None		-		-	
Nighttime:	None		None		-	
Compliance Status – By definition of the license, this monitoring point would not be considered a noise sensitive location. The location does not have to comply with licence requirements.						

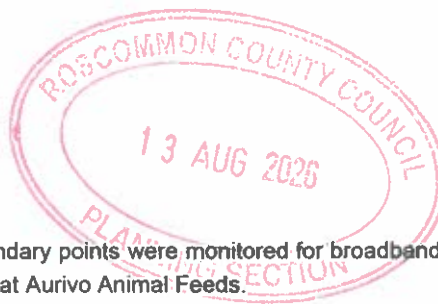
Table 4-10: N4 Tonal Noise Assessment

Band	Day	Evening	Night
6.3 Hz	81.4	80.6	75.0
8 Hz	81.3	90.5	74.8
10 Hz	80.4	89.2	74.3
12.5 Hz	80.2	88.6	74.0
16 Hz	79.6	87.7	73.9
20 Hz	78.5	86.2	73.3
25 Hz	77.8	85.4	73.1
31.5 Hz	77.1	84.4	72.1
40 Hz	75.8	83.2	71.0
50 Hz	75.2	82.3	69.5
63 Hz	74.3	81.1	67.7
80 Hz	73.4	79.6	65.5
100 Hz	72.7	78.3	63.6
125 Hz	72.0	76.6	61.7
160 Hz	71.6	74.5	60.0
200 Hz	71.9	72.3	58.6
250 Hz	72.1	69.9	57.1
315 Hz	71.4	66.9	55.1
400 Hz	70.4	64.2	53.9
500 Hz	69.6	61.6	52.7
630 Hz	68.3	58.9	51.0
800 Hz	66.8	56.6	50.0
1 kHz	54.1	54.0	50.3
1.25 kHz	60.2	50.8	45.4
1.6 kHz	56.9	48.8	45.1
2 kHz	53.9	46.6	44.2
2.5 kHz	51.8	44.8	44.5
3.15 kHz	50.6	43.7	44.8
4 kHz	50.3	42.0	43.7
5 kHz	51.0	38.9	43.6
6.3 kHz	50.5	37.0	41.2
8 kHz	45.7	33.9	36.2
10 kHz	37.4	32.5	31.7
12.5 kHz	33.2	32.8	26.4
16 kHz	31.6	34.3	25.7
20 kHz	34.2	37.6	29.0



Fig 4-5 N4 Frequency Analysis





5. Conclusions

Three noise sensitive location and two noise boundary points were monitored for broadband and 1/3rd Octave frequency as part of this annual environmental noise survey at Aurivo Animal Feeds.

Each point was monitored for the licence defined 30-minute periods during the day, evening and night time survey's.

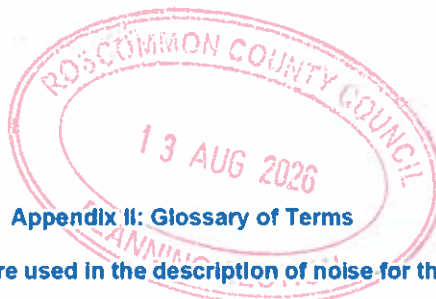
The findings of the survey would indicate that Aurivo Animal Feeds are compliant with licence conditions at the noise sensitive areas.

There was no tonal or impulsive noise determined at any monitoring location; therefore, there are no requirements to apply penalties to the broadband measurement.



Appendix I: NG4 Requirement for Noise Measurement Report:

Item	Section where this information is in the report
Manufacturer, model type and serial number of the sound level meter, calibrator and microphone used for annual survey.	Section 2
The type of windshield and other microphone attachments used.	Section 2
The date the equipment was last calibrated to a traceable standard.	Section 2
A statement of on-site calibration before and after the measurements.	Section 2
The frequency weighting networks and meter response time (i.e. fast or slow).	Section 2
A description of the measurement site and of the range of sound sources including the type of sound (continuous, intermittent, impulsive, tonal).	Section 3
Measures to exclude extraneous noise and reference to the methodologies followed throughout the survey.	Section 2
A map of the measurement site showing the locations of the measurement positions.	Section 3
Photographs illustrating the positioning of the sound level meter (recommended but optional).	Section 3
Details of the intervening ground between sources and measurement positions and the presence of barriers etc.	Section 3
The time and date of the measurement.	Section 4
A description of the meteorological conditions.	Section 4
The background noise level (where practicable).	Section 4
Details of steps taken to reduce uncertainty.	Section 2
The names of the person/s that undertook the survey and drafted the survey report.	Executive Summary.



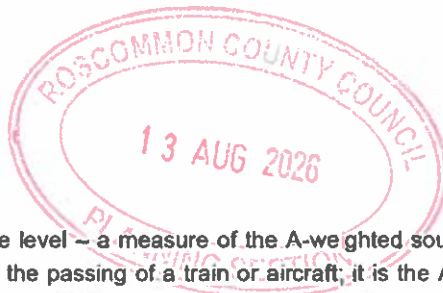
Appendix II: Glossary of Terms

Note: Not all terms were used in the description of noise for this noise survey.

Ambient noise	The totally encompassing sound in a given situation at a given time, usually composed of sound from many sources, near and far.
Acoustic shadow	An acoustic shadow is an area through which sound waves fail to propagate, due to topographical obstructions or disruption of the waves via phenomena such as wind currents.
Background noise	The steady existing noise level present without contribution from any intermittent sources. The A weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90 per cent of a given time interval, T ($L_{AF90,T}$).
Broadband	Sounds that contain energy distributed across a wide range of frequencies.
Competent person	Individual possessing a combination of technical knowledge, experience and skills as outlined in Section 2.0 and who can demonstrate both practical and theoretical competence.
Criterion noise level	The long term mean value of the noise level that must not be exceeded. This is generally stipulated in the IPPC/Waste licence and it may be applied to a noise source, a boundary of the activity or to an NSL in the vicinity of the site.
dB	Decibel. The scale in which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the RMS pressure of the sound field and the reference pressure of 20 micro pascals (20 uPa).
Facade level	The noise level at a location 1m from the facade of a building is described by the term facade level, and is subject to a higher noise level than one in an open area (free-field conditions) due to reflection effects.
Free field	These are conditions in which the radiation from sound sources is unaffected by the presence of any reflecting boundaries or the source itself. In practice, it is a field in which the effects of the boundaries are negligible over the frequency range of interest. In environmental noise, true free-field measurement conditions are seldom achieved and generally the microphone will be positioned at a height between 1.2 and 1.5 metres above ground level. To minimise the influence of reflections, measurements are generally made at least 3.5 metres from any reflecting surface other than the ground.
Hertz (Hz)	The unit of sound frequency in cycles per second.
Impulsive	A noise that is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background.
$L_{Aeq,T}$	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T). The closer the L_{Aeq} value is to either the L_{AF10} or L_{AF90} value indicates the relative impact of the intermittent sources and their contribution. The relative spread between the values determines the impact of intermittent sources, such as traffic, on the background.
L_{AFN}	The A-weighted noise level exceeded for N% of the sampling interval. Measured using the "Fast" time weighting.



L_{A,T}	The Rated Noise Level, equal to the L _{Aeq} during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.
L_{AF10}	Refers to those A-weighted noise levels in the top 10 percentile of the sampling interval; it is the level which is exceeded for 10% of the measurement period. It is used to determine the intermittent high noise level features of locally generated noise and usually gives an indicator of the level of road traffic. Measured using the "Fast" time weighting.
L_{AF90}	Refers to those A-weighted noise levels in the lower 90 percentile of the sampling interval; it is the level which is exceeded for 90% of the measurement period. It will therefore exclude the intermittent features of traffic and is used to describe a background level. Measured using the "Fast" time weighting.
L_{AFmax}	The maximum RMS A-weighted sound pressure level occurring within a specified time period. Measured using the "Fast" time weighting.
L_{AFmin}	The minimum RMS A-weighted sound pressure level occurring within a specified time period. Measured using the "Fast" time weighting.
L_{den}	Is the 24 hour noise rating level determined by the averaging of the L _{day} with the L _{evening} plus a 5 dB penalty and the L _{night} plus a 10 dB penalty.
Low background noise	An area of low background noise is one where the existing background noise levels measured during an environmental noise survey are as follows: - o Average Daytime Background Noise Level ≤40dB L_{AF90}, and; - o Average Evening Background Noise Level ≤35dB L_{AF90}, and; - o Average Night-time Background Noise Level ≤30dB L_{AF90}.
Low frequency noise	Noise which is dominated by frequency components less than approximately 200 Hz
L_{pA} (dB)	An 'A-weighted decibel' K a measure of the overall level of sound across the audible frequency range (20Hz – 20kHz) with A-frequency weighting (i.e. 'A-weighting') to compensate for the varying sensitivity of the human ear to sound at different frequencies.
Noise	Any sound, that has the potential to cause disturbance, discomfort or psychological stress to a person exposed to it, or any sound that could cause actual physiological harm to a person exposed to it, or physical damage to any structure exposed to it, is known as noise.
Noise sensitive location	NSL – any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or other area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Octave band	A frequency interval, the upper limit of which is twice that of the lower limit. For example, the 1,000Hz octave band contains acoustical energy between 707Hz and 1,414Hz. The centre frequencies used for the designation of octave bands are defined in ISO and ANSI standards.
Rating level	See L _{A,T} .
RMS	The RMS (Root Mean Square) value of a set of numbers is the square root of the average of their squares.



SEL (L_{Ax} or L_{Ae})

Sound exposure level – a measure of the A-weighted sound energy used to describe noise events such as the passing of a train or aircraft; it is the A-weighted sound pressure level if occurring over a period of 1 second, would contain the same amount of A-weighted sound energy as the event.

Sound pressure level

Sound pressure refers to the fluctuations in air pressure caused by the passage of a sound wave. It may be expressed in terms of sound pressure level at a point.

Specific noise level

A component of the ambient noise which can be specifically identified by acoustical means and may be associated with a specific source. In BS 4142, there is a more precise definition as follows: 'the equivalent continuous A-weighted sound pressure level at the assessment position produced by the specific noise source over a given reference time interval (L_{Aeq, T})'.

Time weighting

One of the averaging times (Fast, Slow or Impulse) used for the measurement of RMS sound pressure level in sound level meters.

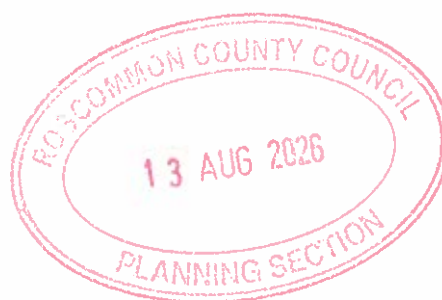
Tonal

Sounds which cover a range of only a few Hz which contains a clearly audible tone, i.e. distinguishable, discrete or continuous noise (whine, hiss, screech, or hum etc.) are referred to as being 'tonal'. A tone is deemed to be present when the level difference between the Leq at the 1/3 octave band of the tone and each adjacent 1/3 octave band is greater than or equal to 15dB for low-frequencies (25Hz to 125Hz), 8dB for middle-frequencies (160Hz to 400Hz) or 5dB for high-frequencies (500Hz to 10,000Hz).

1/3 octave analysis

Frequency analysis of sound such that the frequency spectrum is subdivided into bands of one-third of an octave each.

Appendix III: Calibration Certificates and Equipment Downloads



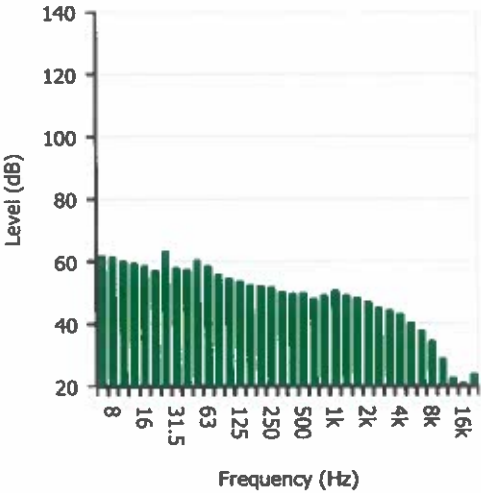
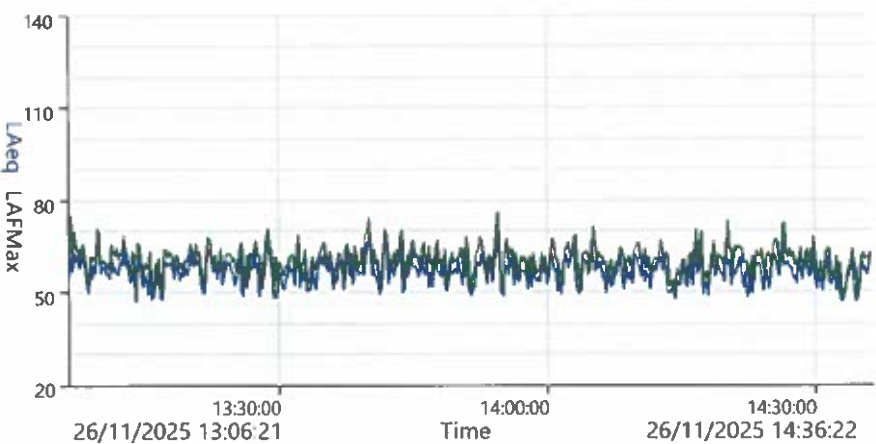


Measurement Summary Report

Name N1Day
Time 26/11/2025 13:06:21 **Person** **Place** **Project**
Duration 01:30:00 **Instrument** G303784, CR:172B
Place Aurivo

Calibration
Before 26/11/2025 13:04 **Offset** 1.20 dB **After** 26/11/2025 14:42 **Offset** 1.03 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	58.7 dB	LAF1	67.5 dB
L _{AE}	96.0 dB	LAF5	63.7 dB
L _{AFMax}	75.8 dB	LAF10	62.0 dB
		LAF50	55.9 dB
		LAF90	49.7 dB
		LAF95	48.5 dB
		LAF99	46.8 dB



ReportId





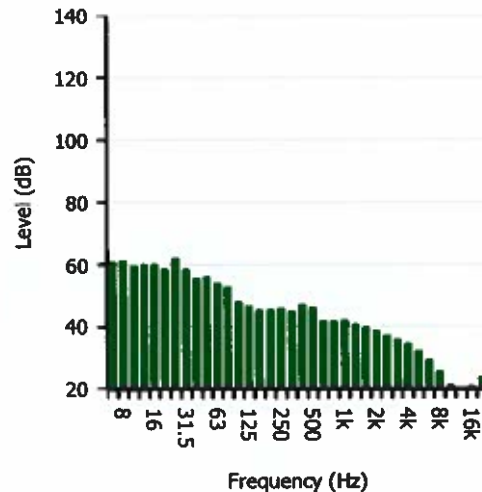
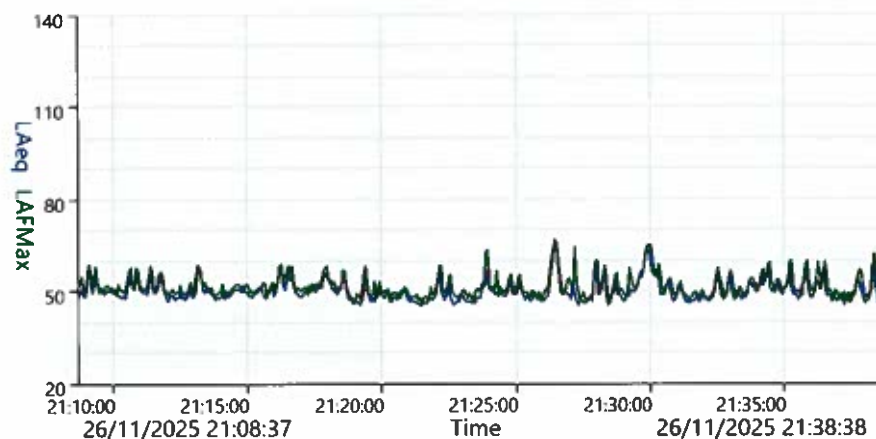
Measurement Summary Report

Name N1Evening
Time 26/11/2025 21:08:37 **Person**
Duration 00:30:00 **Place** Aurivo
Instrument G303784, CR:172B **Project**

Calibration

Before 26/11/2025 21:08 Offset 1.12 dB **After** 27/11/2025 00:18 Offset 1.20 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	51.7 dB	LAF1	61.5 dB
L _{AE}	84.3 dB	LAF5	56.4 dB
L _{AFMax}	66.9 dB	LAF10	54.4 dB
		LAF50	48.9 dB
		LAF90	46.3 dB
		LAF95	45.8 dB
		LAF99	45.0 dB


ReportId



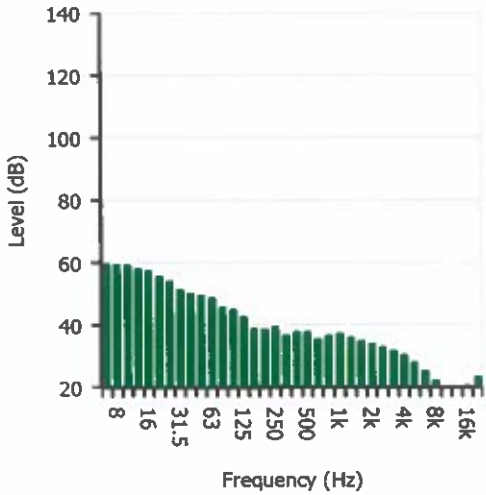
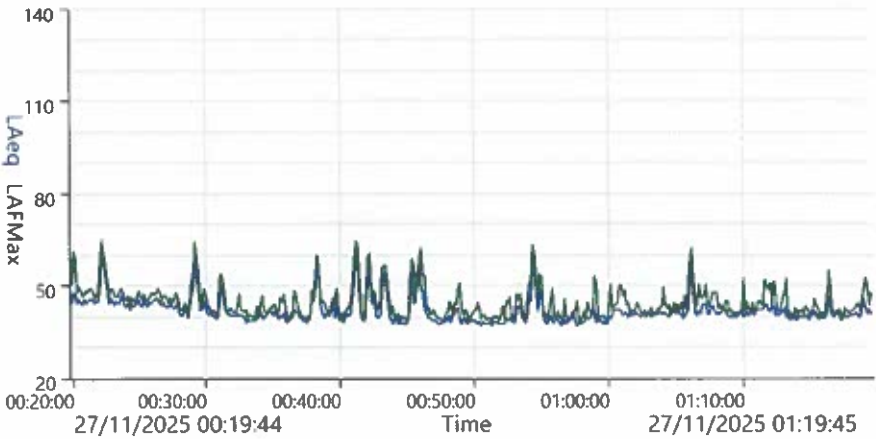

Measurement Summary Report

Name N1Night
Time 27/11/2025 00:19:44
Duration 01:00:00
Instrument G303784, CR:172B

Person
Place Aurivo
Project

Calibration
Before 27/11/2025 00:18 **Offset** 1.20 dB **After** 27/11/2025 01:28 **Offset** 1.07 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	45.9 dB	LAF1	58.3 dB
L _{AE}	81.5 dB	LAF5	49.9 dB
L _{AFMax}	65.1 dB	LAF10	46.0 dB
		LAF50	40.4 dB
		LAF90	37.8 dB
		LAF95	37.3 dB
		LAF99	36.5 dB



ReportId



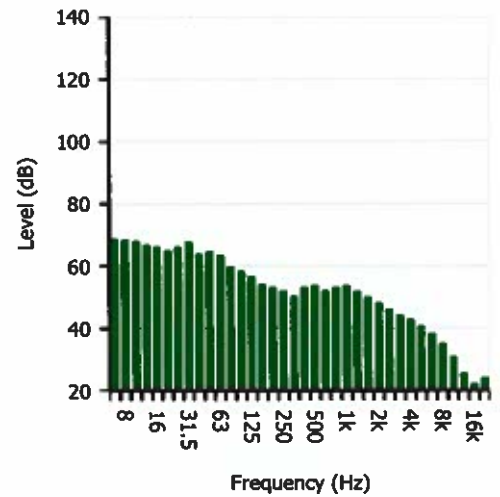
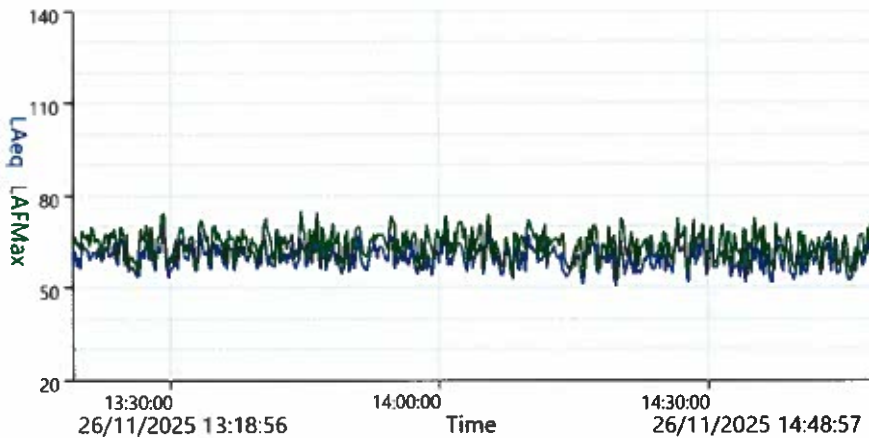
Measurement Summary Report

Name N2Day
Time 26/11/2025 13:18:56 **Person**
Duration 01:30:00 **Place** Aurivo
Instrument G303820, CR:171B **Project**

Calibration

Before 26/11/2025 13:18 **Offset** 1.09 dB **After** 26/11/2025 14:56 **Offset** 1.14 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	61.1 dB	LAF1	69.1 dB
L _{AE}	98.4 dB	LAF5	66.3 dB
L _{AFMax}	74.7 dB	LAF10	64.6 dB
		LAF50	58.3 dB
		LAF90	53.9 dB
		LAF95	52.8 dB
		LAF99	50.9 dB



ReportId





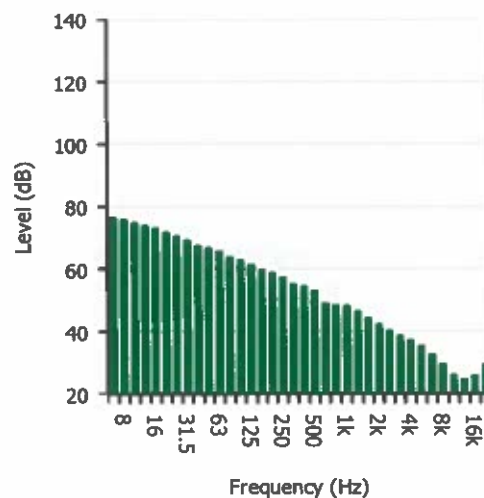
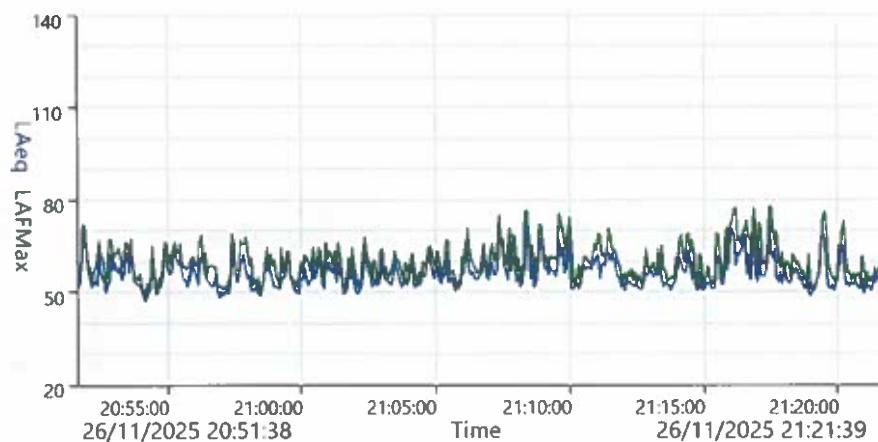
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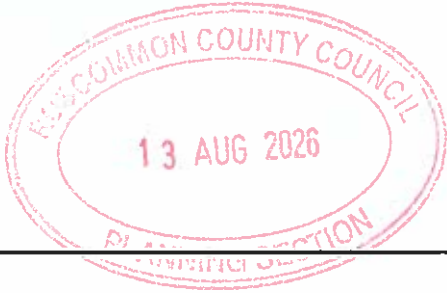
Name	N2Evening	Person		Place		Project	
Time	26/11/2025 20:51:38						
Duration	00:30:00				Aurivo		
Instrument	G303820, CR:171B						

Calibration

Before	26/11/2025 20:50	Offset	0.98 dB	After	26/11/2025 21:33	Offset	1.04 dB
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Basic Values		Statistical Levels (Ln)	
L _{Aeq}	59.2 dB	LAF1	70.1 dB
L _{AE}	91.8 dB	LAF5	64.8 dB
L _{AFMax}	77.4 dB	LAF10	62.2 dB
		LAF50	54.1 dB
		LAF90	50.1 dB
		LAF95	49.3 dB
		LAF99	47.9 dB


ReportId

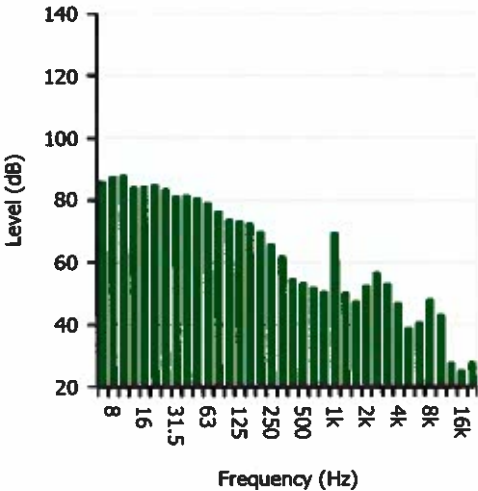
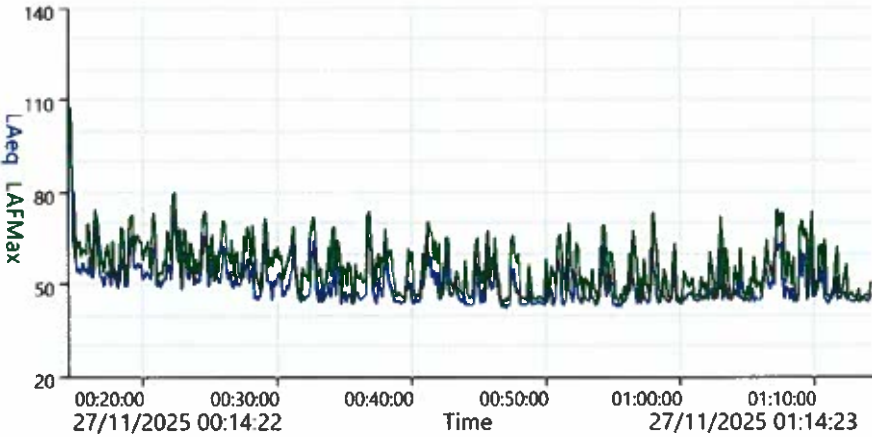
Measurement Summary Report

Name	N2Night			
Time	27/11/2025 00:14:22	Person	Place	Project
Duration	01:00:00		Aurivo	
Instrument	G303820, CR:171B			

Calibration

Before	27/11/2025 00:13	Offset	0.61 dB	After	27/11/2025 01:37	Offset	0.13 dB
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Basic Values		Statistical Levels (Ln)	
L _{Aeq}	70.9 dB	LAF1	69.3 dB
L _{AE}	106.5 dB	LAF5	61.2 dB
L _{AFMax}	107.1 dB	LAF10	56.6 dB
		LAF50	46.0 dB
		LAF90	43.3 dB
		LAF95	42.8 dB
		LAF99	42.0 dB



ReportId





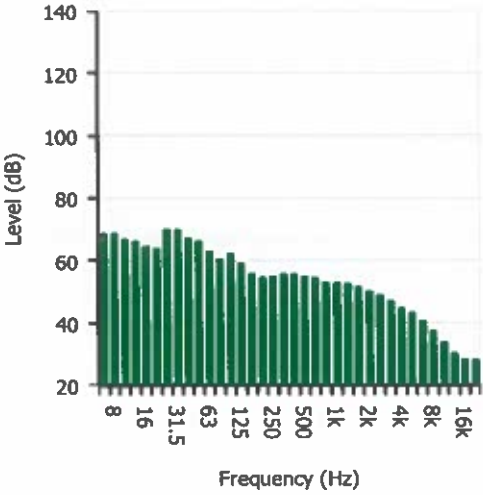
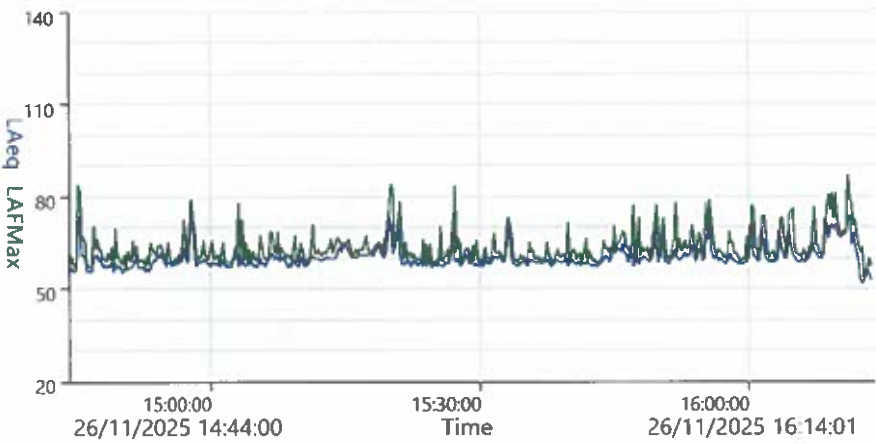
Measurement Summary Report

Name N3Day
Time 26/11/2025 14:44:00
Duration 01:30:00
Instrument G303784, CR:172B

Person
Place Aurivo
Project

Calibration
Before 26/11/2025 14:42 **Offset** 1.03 dB
After 26/11/2025 16:15 **Offset** 0.75 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	62.5 dB	LAF1	72.5 dB
L _{AE}	99.8 dB	LAF5	67.7 dB
L _{AFMax}	86.3 dB	LAF10	63.9 dB
		LAF50	58.8 dB
		LAF90	56.7 dB
		LAF95	56.0 dB
		LAF99	53.4 dB



ReportId



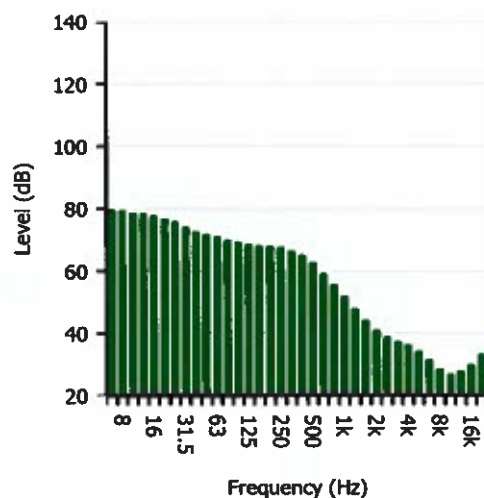
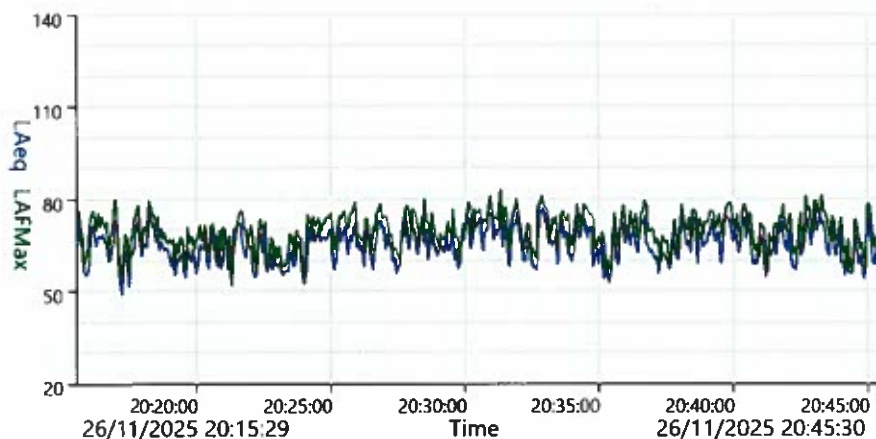
Measurement Summary Report

Name N3Evening
Time 26/11/2025 20:15:29 **Person**
Duration 00:30:00 **Place** Aurivo
Instrument G303820, CR:171B **Project**

Calibration

Before 26/11/2025 20:14 **Offset** 1.17 dB **After** 26/11/2025 20:50 **Offset** 0.98 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	67.8 dB	LAF1	76.7 dB
L _{AE}	100.4 dB	LAF5	73.8 dB
L _{AFMax}	82.7 dB	LAF10	71.9 dB
		LAF50	63.7 dB
		LAF90	55.0 dB
		LAF95	53.5 dB
		LAF99	48.6 dB



ReportId





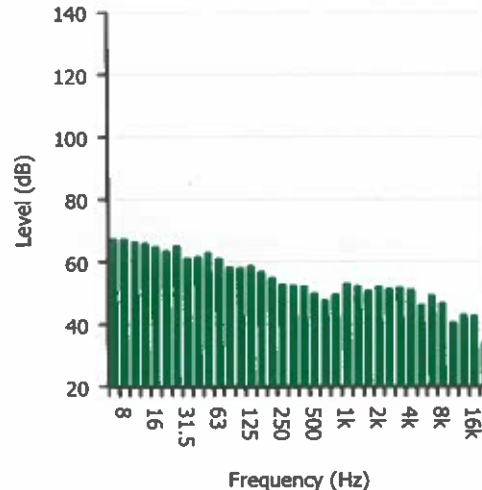
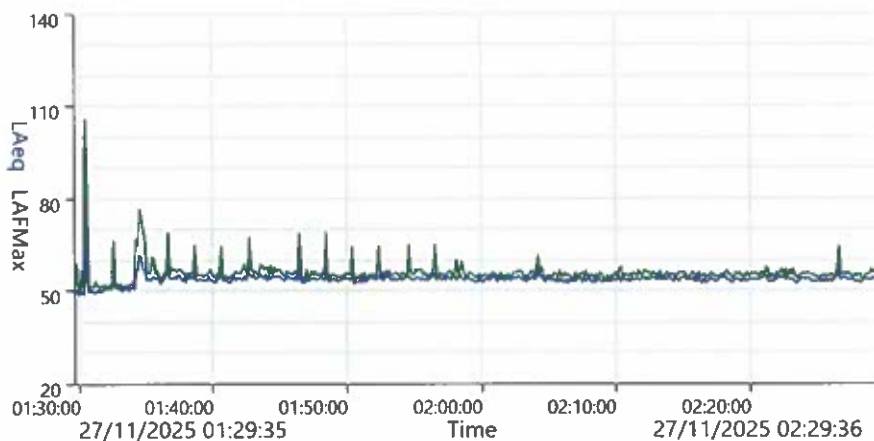
Measurement Summary Report

Name N3Night
Time 27/11/2025 01:29:35 **Person**
Duration 01:00:00 **Place** Aurivo
Instrument G303784, CR:172B **Project**

Calibration

Before 27/11/2025 01:28 **Offset** 1.07 dB **After** 27/11/2025 02:30 **Offset** 1.21 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	62.4 dB	LAF1	56.8 dB
L _{AE}	98.0 dB	LAF5	55.2 dB
L _{AFMax}	105.5 dB	LAF10	54.7 dB
		LAF50	53.4 dB
		LAF90	51.9 dB
		LAF95	50.3 dB
		LAF99	48.9 dB


ReportId



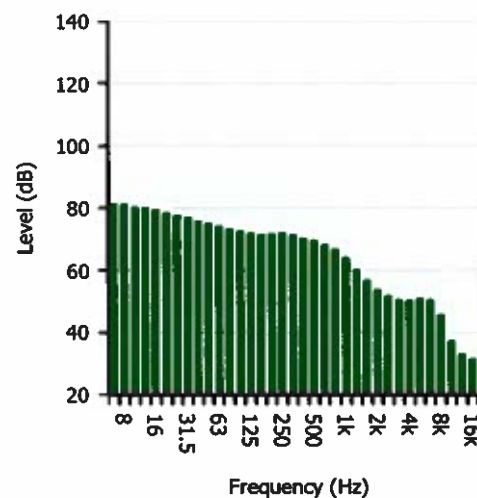
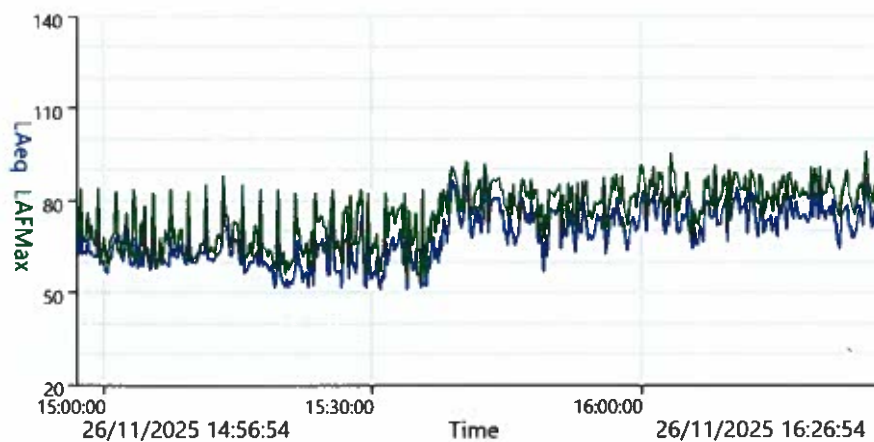

Measurement Summary Report

Name	N4Day			
Time	26/11/2025 14:56:54	Person	Place	Project
Duration	01:30:00		Aurivo	
Instrument	G303820, CR:171B			

Calibration

Before	26/11/2025 14:56	Offset	1.14 dB	After	26/11/2025 20:14	Offset	1.17 dB
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Basic Values		Statistical Levels (Ln)	
L _{Aeq}	74.7 dB	LAF1	86.0 dB
L _{AE}	112.0 dB	LAF5	81.7 dB
L _{AFMax}	95.5 dB	LAF10	78.7 dB
		LAF50	64.3 dB
		LAF90	54.0 dB
		LAF95	51.6 dB
		LAF99	49.8 dB



ReportId





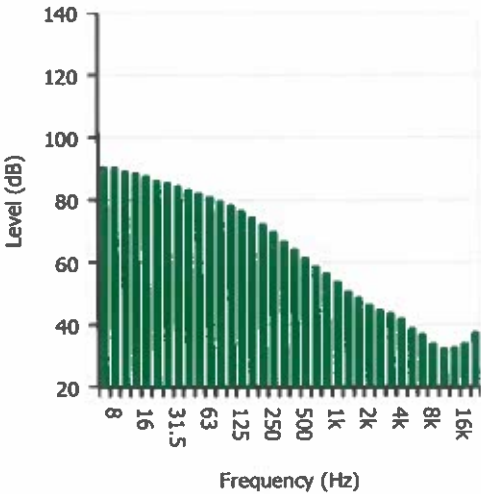
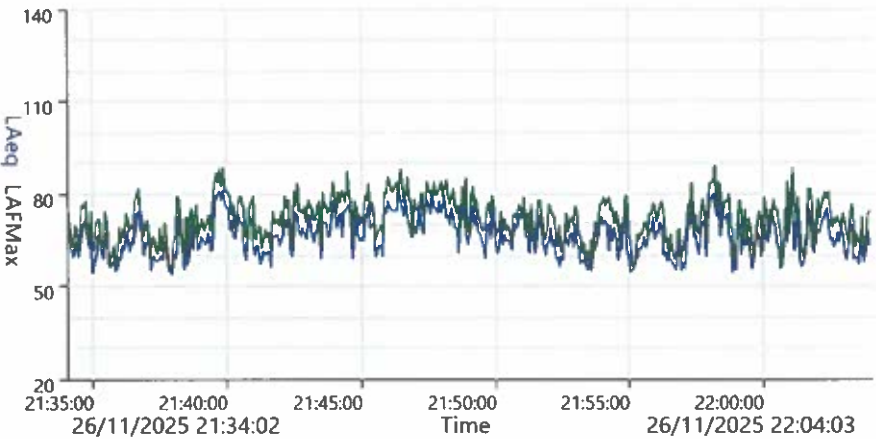
Measurement Summary Report

Name	N4Evening			
Time	26/11/2025 21:34:02	Person	Place	Project
Duration	00:30:00		Aurivo	
Instrument	G303820, CR:171B			

Calibration

Before	26/11/2025 21:33	Offset	1.04 dB	After	26/11/2025 22:16	Offset	0.93 dB
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Basic Values		Statistical Levels (Ln)	
LAeq	70.5 dB	LAF1	80.9 dB
LAE	103.0 dB	LAF5	76.8 dB
LAFMax	88.9 dB	LAF10	74.3 dB
		LAF50	64.2 dB
		LAF90	55.9 dB
		LAF95	54.6 dB
		LAF99	51.8 dB



ReportId





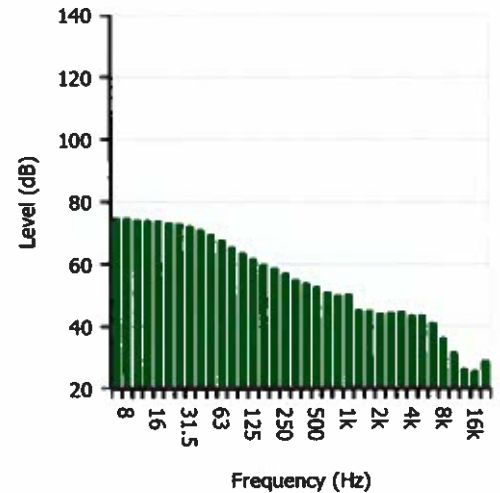
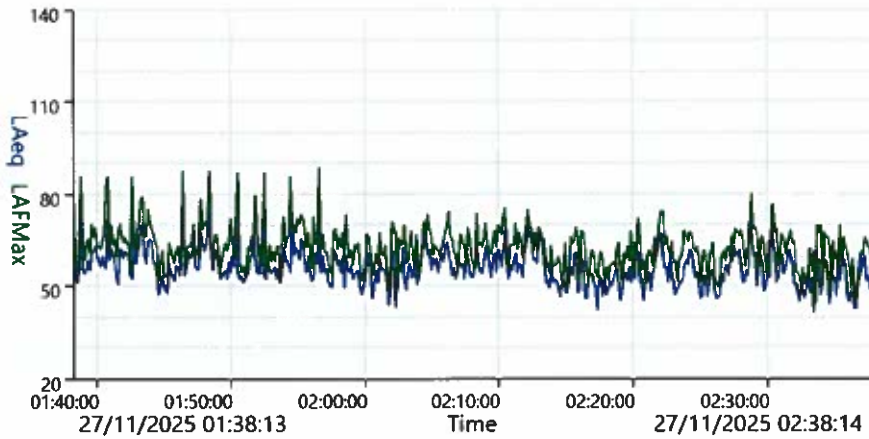
Measurement Summary Report

Name N4Night
Time 27/11/2025 01:38:13 **Person**
Duration 01:00:00 **Place** Aurivo **Project**
Instrument G303820, CR:171B

Calibration

Before 27/11/2025 01:37 **Offset** 1.13 dB **After** 27/11/2025 02:39 **Offset** 1.07 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	60.1 dB	LAF1	69.5 dB
L _{AE}	95.7 dB	LAF5	64.5 dB
L _{AFMax}	88.2 dB	LAF10	61.9 dB
		LAF50	53.2 dB
		LAF90	45.6 dB
		LAF95	43.5 dB
		LAF99	41.2 dB



ReportId





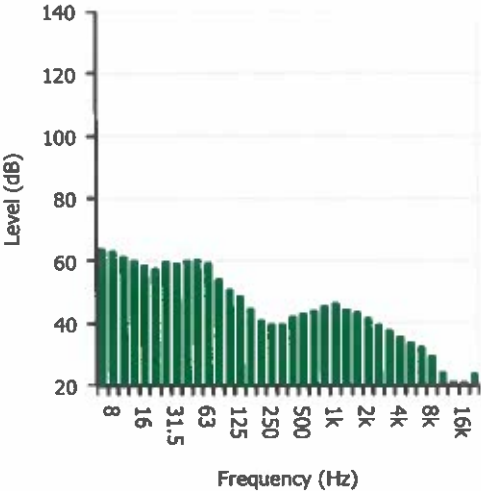
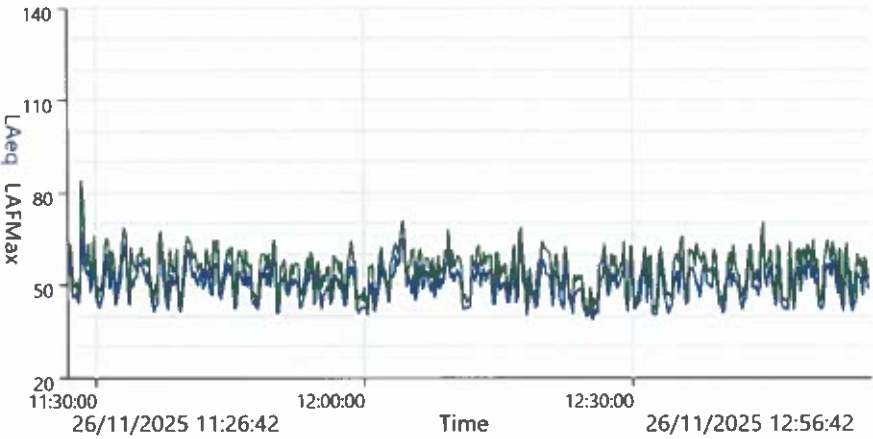
Measurement Summary Report

Name	N5Day			
Time	26/11/2025 11:26:42	Person	Place	Project
Duration	01:30:00		Aurivo	
Instrument	G303784, CR:172B			

Calibration

Before	26/11/2025 11:25	Offset	1.20 dB	After	26/11/2025 13:04	Offset	1.20 dB
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Basic Values		Statistical Levels (Ln)	
L _{Aeq}	53.4 dB	LAF1	63.6 dB
L _{AE}	90.7 dB	LAF5	59.0 dB
L _{AFMax}	83.5 dB	LAF10	56.5 dB
		LAF50	48.5 dB
		LAF90	41.8 dB
		LAF95	40.9 dB
		LAF99	39.5 dB



ReportId



Measurement Summary Report

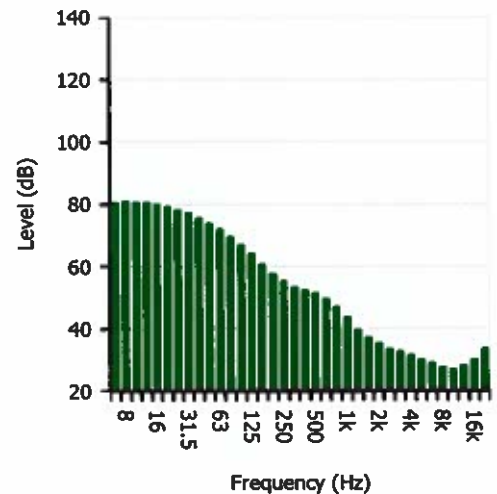
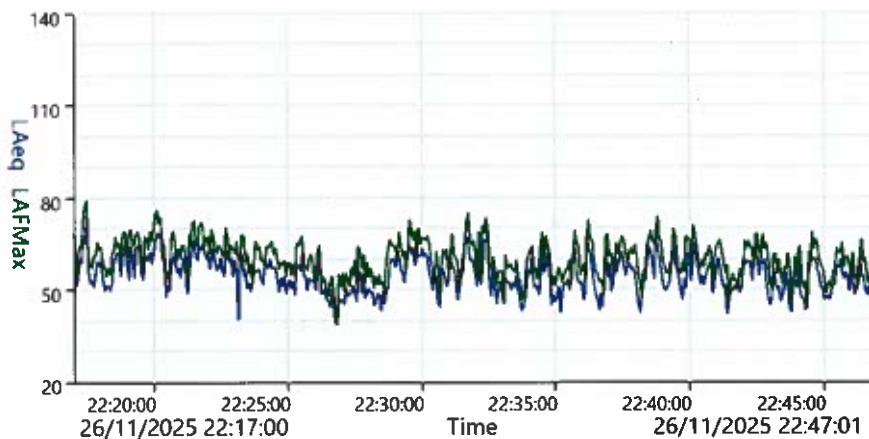
Name N5Evening
Time 26/11/2025 22:17:00
Duration 00:30:00
Instrument G303820, CR:171B

Person
Place Aurivo
Project

Calibration

Before 26/11/2025 22:16 **Offset** 0.93 dB **After** 26/11/2025 23:04 **Offset** 0.66 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	58.5 dB	LAF1	68.4 dB
L _{AE}	91.1 dB	LAF5	64.3 dB
L _{AFMax}	79.3 dB	LAF10	62.2 dB
		LAF50	52.6 dB
		LAF90	43.8 dB
		LAF95	41.8 dB
		LAF99	38.5 dB



ReportId





Measurement Summary Report

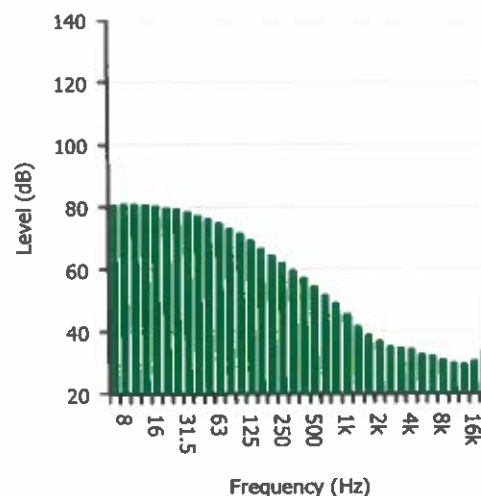
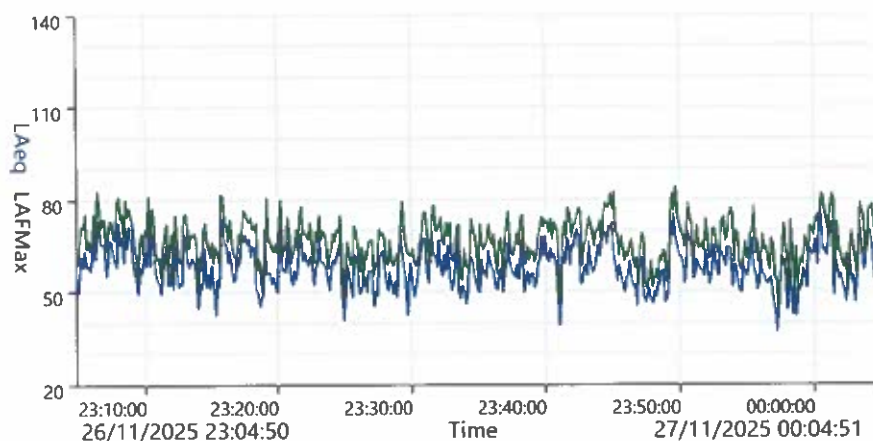
Name N5Night
Time 26/11/2025 23:04:50
Duration 01:00:00
Instrument G303820, CR:171B

Person
Place Aurivo
Project

Calibration

Before 26/11/2025 23:04 Offset 0.66 dB
After 27/11/2025 00:13 Offset 0.61 dB

Basic Values		Statistical Levels (Ln)	
L _{Aeq}	63.0 dB	LAF1	74.7 dB
L _{AE}	98.6 dB	LAF5	69.6 dB
L _{AFMax}	83.9 dB	LAF10	66.4 dB
		LAF50	54.0 dB
		LAF90	44.4 dB
		LAF95	41.9 dB
		LAF99	37.8 dB



ReportId







P2500-BD-CO

Main Data

Prime power (PRP)	2280.0 (kVA)
Prime power (PRP)	1824.0 (kW)
Limited Power (LTP)	2550.0 (kVA)
Limited Power (LTP)	2040.0 (kW)
DCC Rating	2000.0 (kW)
Sound Pressure 1m	85 dBA
Voltage · Frequency	400V · 50Hz
Power Factor	0.8 cos ϕ



Dimensions And Weight

Length	12192 mm
Width	2438 mm
Height	2896 mm
Weight	TBC kg

Base Frame

Model	ST70
Standard Tank	N/A
Optional Tank	N/A
Oversized Tank	N/A

Canopy and Silencer

Canopy Model	40 FT CONTAINER HIGH CUBE
Silencer Model	N/A
Silencer Outlet diameter	N/A

Fuel Consumption

Fuel Cons. at 100% (E.S.P)	538.5 l/h
Fuel Cons. at 100% (P.R.P)	466.4 l/h
Fuel Cons. at 75% (P.R.P.)	360.7 l/h
Fuel Cons. at 50% (P.R.P.)	240.5 l/h
Fuel Cons. at 25% (P.R.P.)	131 l/h



P2500-BD-CO

General Alternator Data

Alternator brand	MECCALTE
Alternator model	ECO46 2L4 A
P.R.P. Power	2500.0 kVA
L.T.P. Power	2700.0 kVA
Winding	3 Phases
Terminals Number	12 nr.
IP Protection	23
Electronic regulator	DER
Precision	± 0.5 %

General Engine Data

Engine brand	BAUDOUIN
Engine model	20M33G2500/5
Cylinders	20
R.P.M.	1500
Cubic capacity	65.4 l
Air Intake	Turbo
Standard voltage	24 Vdc
Sae	-
BMEP @ ESP (Bar)	27.03 kPa
Cooling	Water
Flywheel P.R.P. Power	1928 Kw
Flywheel Stand-by Power	2128 kW
Electronic regulator	Standard
Precision class	G3
Oil quantity	210/240 l (min/max)
Engine Antifreeze capacity	140.0 l
Radiator type	Temperate
Heat from radiator	1361 kW
Heat from exhaust	1722 kW
Heat from radiation	267 kW
Exhaust temperature	550 ° C
Cooling air flow	3480.0 m³/min
Combustion air flow	157.0 m³/min
Exhaust gas flow	500.0 m³/min
EU Stage	Not available



P2500-BD-CO

Standard Reference Conditions

Standard reference conditions temperature 25° C, altitude 100m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load - non distortion. Fuel consumption is nominal and refers to specific weight 0,850kg/l. Sound power values refer to free field conditions: the installation site may influence the values.

Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance.

P.R.P. Prime Power-Continuous power at variable load: The power that a genset can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer. According to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the Manufacturer.

L.T.P. Limited-time running power-Limited power: The maximum power that a genset can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer according to ISO 8528-1. The number of hours per year is stated by the Manufacturer. Overload is not permitted.

The data contained in this document is nominal and refers to the standard equipped model and is not binding. The manufacturer reserves the right to revise the information without notice per our policy of continuous product development and improvement.

