aercoustics

Aercoustics Engineering Ltd.
1004 Middlegate Road, Suite 1100
Mississauga, ON L4Y 0G1

Tel: 416-249-3361
Fax 416-249-3613
aercoustics.com

EASR ACOUSTIC ASSESSMENT REPORT – **Project: 23021.03**

Almonte 2 Battery Energy Storage Site

Windsor, ON

Prepared for:

Almonte BESS Inc.
192 Spadina Ave. Suite 506
Toronto, ON, M5T 2C2

Prepared by:

Hillary Fung, B.A.Sc.

Duncan Halstead, B.A.Sc., P.Eng.

September 20, 2024

Revision History

Version	Description	Author	Reviewed	Date
- -	Initial Report	HF	DH	September 20, 2024

Important Notice and Disclaimer

This report was prepared by Aercoustics Engineering Limited (Aercoustics) solely for the client identified above and is to be used exclusively for the purposes set out in the report. The material in this report reflects the judgment of Aercoustics based on information available to them at the time of preparation. Unless manifestly incorrect, Aercoustics assumes information provided by others is accurate. Changed conditions or information occurring or becoming known after the date of this report could affect the results and conclusions presented. Unless otherwise required by law or regulation, this report shall not be shared with any Third Party without the express written consent of Aercoustics. Aercoustics accepts no responsibility for damages, if any, suffered by any Third Party which makes use of the results and conclusions presented in this report.

Executive Summary

Aercoustics Engineering Limited was retained by Almonte BESS Inc. to prepare an Acoustic Assessment Report, as required by the Ministry of the Environment, Conservation and Parks (MECP), to support an application for registration under the Environmental Activity and Sector Registry (EASR) for Almonte 2 Battery Energy Storage Site.

The purpose of this study is to assess the noise impact of existing and proposed noise sources on the affected points of noise reception in the area and to outline noise mitigation measures as required to satisfy the applicable MECP sound level limits.

The proposed facility will house several battery storage units which will be located outdoors. The surrounding area is mainly rural and agricultural. The closest noise-sensitive receptor is located to the northeast of the site. The facility will be located adjacent to another battery storage facility, Almonte 1 Battery Energy Storage Site. The noise impact of Almonte 2 was assessed cumulatively with Almonte 1.

An Acoustic Assessment Summary Table has been included in Appendix A, which summarizes the predicted noise impact.

With the facility operations outlined in this report, it was determined that the combined sound level resulting from sound discharged from the Almonte 2 and Almonte 1 facility at each affected point of reception, as determined using an acoustic assessment, is less than or equal to the applicable sound level limit set out in Chapter 3 of the EASR Publication.

Table of Contents

1 Introduction

Aercoustics Engineering Limited (Aercoustics) was retained by Almonte BESS Inc. to prepare an Acoustic Assessment Report (AAR), as required by the Ministry of the Environment, Conservation and Parks (MECP), to support an application for registration under the Environmental Activity and Sector Registry (EASR) for Almonte 2 Battery Energy Storage Site.

The purpose of this study is to assess the noise impact of existing and proposed noise sources on the affected points of noise reception in the area and to outline noise mitigation measures as required to satisfy the applicable MECP sound level limits. Where the predicted levels were found to exceed the MECP sound level limits, noise control measures are proposed to satisfy these limits.

An Acoustic Assessment Summary Table has been included in Appendix A, which summarizes the predicted noise impact.

A scaled area location map is provided in Figures 1A and 1B, indicating the location of the site and surrounding receptors. A scaled site plan is provided in Figure 2, indicating the locations of the noise sources.

Appendix B contains an AAR Checklist and a Statement of Accuracy of Information, both signed by the applicant.

Zoning maps are provided in Appendix C, which show a zoning for the site of Rural (RU) and Agricultural (A).

This report was prepared in accordance with O. Reg. 1/17.

1.1 Applicable NAICS Codes

The applicable North American Industry Classification System (NAICS) code for this facility is:

- 221121 – Electric bulk power transmission and control

The above NAICS code is not included in the Schedule to O. Reg. 1/17.

1.2 Statement of Accurate Information

Based on information provided to Aercoustics, the information in this report is accurate as of the date it is signed and sealed. This report and associated calculations underwent a comprehensive internal review process to ensure minimization of errors and omissions.

1.3 Legal Name of Owner and Facility Operator

The legal name of the both the owner and the operator of the facility is:

- Almonte BESS Inc.

1.4 Facility Site Name and Address

The name of the facility and the facility address is:

- Almonte 2 BESS
  6299 County Road 29
  Mississippi Mills, ON
  K0A 1A0

1.5 Hours of Operation

The hours of operation of the facility are understood to be during daytime, evening, or nighttime hours (24-hour operation).

2 Facility Description

Almonte 2 Battery Energy Storage Site is situated on the south side of County Road 29, midway between Rae Road and Drummond Road, in the Municipality of Mississippi Mills. Figure 1A provides a key plan showing the location of the facility and surrounding area. The municipal address of the facility is 6299 County Road 29, Mississippi Mills, Ontario.

Surrounding land uses include rural uses (RU) to the south, rural residential (RR) to the south, and agricultural zoning (A) all around the site.

This facility will consist of 12 Megapack 2XL battery energy storage containers, and 2 medium-voltage pad mount transformers. It will be built directly southeast of the neighbouring Almonte Battery Energy Storage Site, which consists of 6 Megapack 2XL battery energy storage containers, and 1 medium-voltage pad mount transformer.

3 Noise Source Summary

The noise sources associated with this facility include battery energy storage containers – comprised of battery cells, an inverter, and associated cooling equipment – as well as medium-voltage pad mount transformers. The noise sources of concern are summarized in the Noise Source Summary Table included in Appendix D and the locations of these sources are identified in Figure 2. Sound data was based on equipment dimensions as well as manufacturer-tested sound data.

<u>Battery Storage Containers:</u>

- Tesla Megapack 2XL four-hour duration, operating in a 5-fan, 60% fan speed cooling configuration during the daytime (07:00 to 19:00), and a 5-fan, 50% fan speed cooling configuration during the evening and nighttime (19:00 to 07:00).
- Sound power level is based on sound data provided by Tesla.

Medium-Voltage Pad Mount Transformers:

- Sound power level is based on similarly sized 5 MVA pad mount transformers from Aercoustics' database.

The noise from minor electrical equipment and on-site small vehicle movements was considered acoustically insignificant. All acoustically insignificant noise sources are listed in Appendix D.

4 Points of Reception

There are several dwellings to the north, west, and east, identified as Receptors R01 to R14, surrounding the facility.

The receptor height and setback distance from the nearest noise source for each of the receptors are shown in Table 1. The affected points of noise reception were determined in accordance with Chapter 3 of the EASR Publication.

Table 1: Summary of Points of Reception

Receptor	Description	Height	Distance
R01	Existing 1-storey dwelling	1.5 m	540 m NE
R01g	Outdoor points of reception associated with R01	1.5 m	530 m NE
R02	Existing 2-storey dwelling	4.5 m	710 m NE
R02g	Outdoor points of reception associated with R02	1.5 m	670 m NE
R03	Existing 1-storey dwelling	1.5 m	710 m N
R03g	Outdoor points of reception associated with R03	1.5 m	700 m N
R04	Existing 2-storey dwelling	4.5 m	680 m N
R04g	Outdoor points of reception associated with R04	1.5 m	660 m N
R05	Existing 1-storey dwelling	1.5 m	620 m W
R05g	Outdoor points of reception associated with R05	1.5 m	600 m W
R06	Existing 2-storey dwelling	4.5 m	710 m W
R06g	Outdoor points of reception associated with R06	1.5 m	690 m W
R07	Existing 1-storey dwelling	1.5 m	700 m SW
R07g	Outdoor points of reception associated with R07	1.5 m	680 m SW
R08	Existing 2-storey dwelling	4.5 m	500 m SW
R08g	Outdoor points of reception associated with R08	1.5 m	480 m SW
R09	Existing 2-storey dwelling	4.5 m	690 m S
R09g	Outdoor points of reception associated with R09	1.5 m	660 m S
R10	Existing 2-storey dwelling	4.5 m	690 m S

Receptor	Description	Height	Distance
R10g	Outdoor points of reception associated with R10	1.5 m	660 m S
R11	Existing 2-storey dwelling	4.5 m	700 m S
R11g	Outdoor points of reception associated with R11	1.5 m	690 m S
R12	Existing 2-storey dwelling	4.5 m	670 m S
R12g	Outdoor points of reception associated with R12	1.5 m	640 m S
R13	Existing 1-storey dwelling	1.5 m	600 m S
R13g	Outdoor points of reception associated with R13	1.5 m	570 m S
R14	Existing 2-storey dwelling	4.5 m	1010 m E
R14g	Outdoor points of reception associated with R14	1.5 m	990 m E
VL15	Noise sensitive zoned lot	4.5 m	750 m E

A scaled area location map is provided in Figures 1A and 1B, indicating the locations of the site and the surrounding receptors.

4.1 Vacant Lots

The EASR Publication document requires consideration for potential receptors on vacant lots.

A noise sensitive zoned lot was identified to the east of the proposed facility. The agriculturally zoned lot permits the construction of a single detached dwelling, which is identified as VL15. Zoning maps are provided in Appendix C.

5 Noise Criteria

5.1 Acoustical Classification

Affected points of noise reception R01 to R11, R14, and VL15 have been assessed a Class 3 designation as defined by Chapter 3 of the EASR Publication. In a Class 3 area, the acoustical environment is dominated by natural sounds with little or no road traffic and infrequent human activity.

Affected points of noise reception R12 and R13 are located in a residential subdivision and expected to have an ambient acoustical environment consistent with the Class 2 designation as defined by Chapter 3 of the EASR Publication. In a Class 2 area, the background sound levels during the daytime are dominated by the activities of people, usually road traffic, and during evening and nighttime periods the background sound levels are defined by natural sounds. In this case, the man-made noise sources primarily include road traffic on Ramsay Concession 8 as well as other noise from the community typically present in a residential subdivision.

5.2 Applicable Sound Level Limits

The MECP exclusion limits for each receptor are summarized in Table 2 below:

Table 2: Noise Exclusion Limits – Class 2

Time of Day	Sound Level Exclusion Limit* Plane of Window	Sound Level Exclusion Limit* Outdoors
Daytime (07:00 to 19:00)	50 dBA	50 dBA
Evening (19:00 to 23:00)	50 dBA	45 dBA
Nighttime (23:00 to 07:00)	45 dBA	- -

*or the minimum existing hourly background sound level Leq, whichever is higher

Table 3: Noise Exclusion Limits – Class 3

Time of Day	Sound Level Exclusion Limit* Plane of Window	Sound Level Exclusion Limit* Outdoors
Daytime (07:00 to 19:00)	45 dBA	45 dBA
Evening (19:00 to 23:00)	40 dBA	45 dBA
Nighttime (23:00 to 07:00)	40 dBA	- -

*or the minimum existing hourly background sound level Leq, whichever is higher

The MECP sound level limit is determined by the applicable exclusion limit listed above or the minimum hourly equivalent background sound level, whichever is higher. The background sound level may increase the sound level limit for some of the receptors in this study, particularly those near busy roads. For conservatism and simplicity, the exclusion limit was used for all receptors in this study.

5.3 Predictable Worst Case

The assessment of noise impact requires the determination of the “predictable worst-case”. Therefore, the worst-case one-hour equivalent sound level (1-hr L_{eq}) has been predicted based on all equipment operating simultaneously during the hour with the lowest ambient noise.

6 Noise Impact Assessment

The noise impact calculations were performed using DataKustik’s CadnaA environmental noise prediction software. The calculations are based on established prediction methods including the standard ISO 9613-2: “Acoustics – Attenuation of sound during propagation outdoors”.

Noise levels were predicted using flat topography under conditions of downwind propagation, generally with hard ground (G-0) modelled in applicable areas such as paved roads, and open water. Soft ground (G=1) conditions were modeled elsewhere. The directivity of noise emission for applicable noise sources was considered.

The transformer sources were assumed to be tonal and as such a 5 dB tonal penalty was applied. Megapacks were evaluated to be tonal when operating at a fan duty cycle of 50% or higher. This was determined based on third-octave manufacturer data, using Annex C of the ANSI S12.9-2005 standard. As such, a 5 dB tonal penalty was applied to the Megapacks.

The noise impact of the Almonte 2 site was evaluated cumulatively with the neighbouring Almonte 1 site. The Almonte 2 site will consist of 2 transformers and 12 Megapacks. Including the neighbouring site, total of 3 transformers and 18 Megapacks were evaluated.

Appendix E contains sound power data. Appendix F contains a more detailed description of the noise prediction methodology. Appendix G contains Point of Reception (POR) tables, sample stationary source calculations, and sample sound power calculations.

The predicted worst-case hourly sound level at each affected point of noise reception from stationary noise sources is presented in the Acoustic Assessment Summary Table, based on the template provided by the MECP, located in Appendix A. Figure 3 includes an illustration of the noise impact contours at a height of 4.5 m for the existing equipment.

Based on the noise predictions, the facility is predicted to be in compliance with the MECP sound level limits.

7 Conclusion

Aercoustics Engineering Limited was retained by Almonte BESS Inc. to prepare an Acoustic Assessment Report, as required by the Ministry of the Environment, Conservation and Parks (MECP), to support an application for registration under the Environmental Activity and Sector Registry (EASR) for Almonte 2 Battery Energy Storage Site.

Based on the information available, the conclusions of this report are accurate as of the date it was signed and sealed. This report and associated calculations underwent a comprehensive internal review process to ensure minimization of errors and omissions.

It was determined that the combined sound level resulting from sound discharged from the facility at each affected point of noise reception, as determined using an acoustic assessment, is less than or equal to the applicable sound level limit set out in Chapter 3 of the EASR Publication.

aercoustics

Project ID: 23021.00	**Project Name**
Scale: NTS Drawn by: HF Reviewed by: DH Date: Sep 20, 2024 Revision: 1	Almonte 2 Battery Energy Storage System
	Figure Title Site Location and Surrounding 1000m Area

Figure 1A

aercoustics	Project ID: 23021.00 Scale: NTS Drawn by: HF Reviewed by: DH Date: Sep 20, 2024 Revision: 1	**Project Name** Almonte 2 Battery Energy Storage System **Figure Title** Site Location and Surrounding Area

Figure 1B

aercoustics

Project ID: 23021.00

Scale: NTS
Drawn by: HF
Reviewed by: DH
Date: Sep 20, 2024
Revision: 1

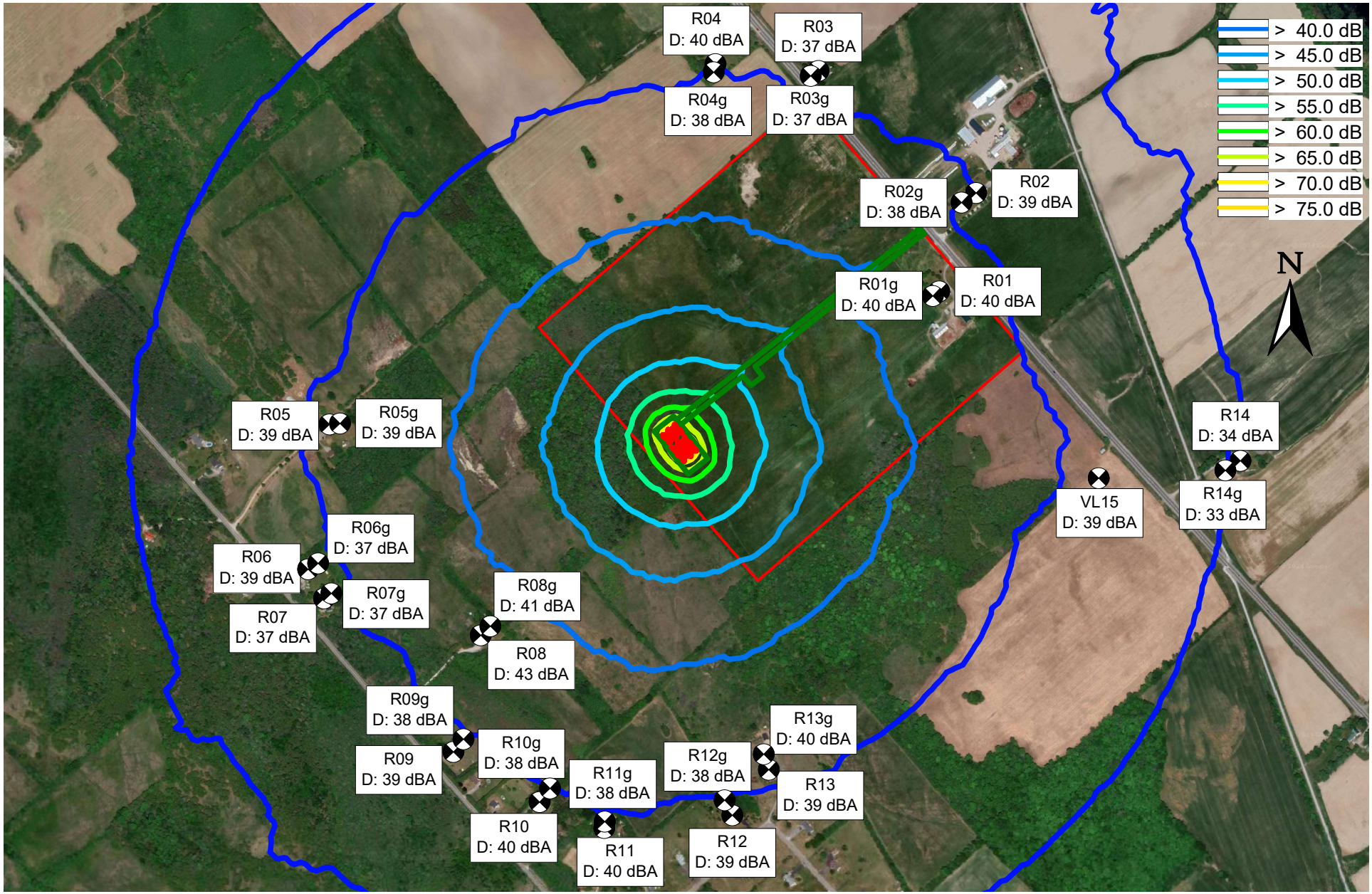
Project Name

Almonte 2 Battery Energy Storage System

Figure Title

Site Location with Sources

Figure 2



aercoustics

Project ID: 23021.00

Scale: NTS
Drawn by: HF
Reviewed by: DH
Date: Sep 20, 2024
Revision: 1

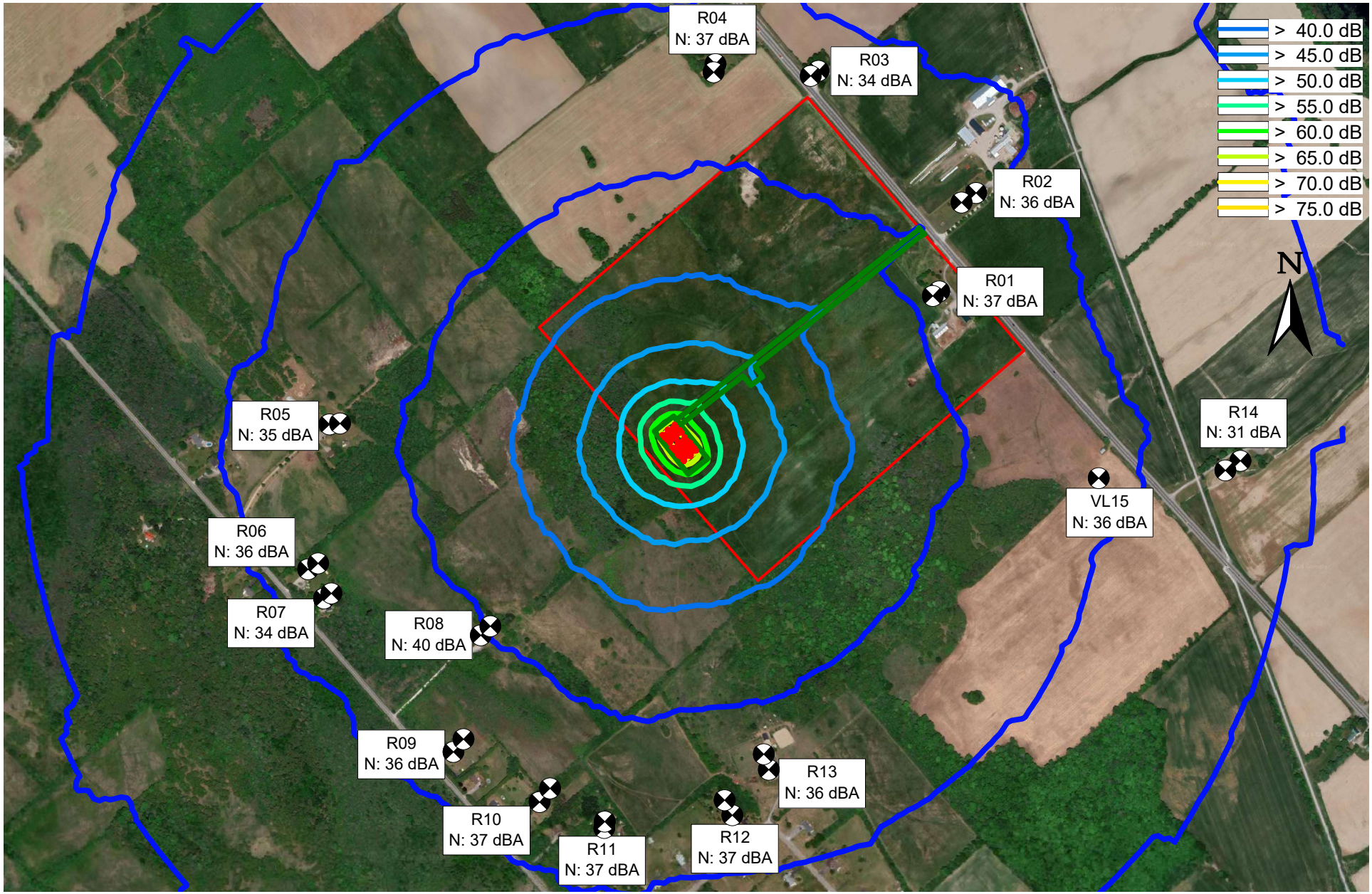
Project Name

Almonte 2 Battery Energy Storage System

Figure Title

Impact of Proposed Site (Daytime) - 4.5m Height Noise Contours

Figure 3



aercoustics

Project ID: 23021.00

Scale: NTS
Drawn by: HF
Reviewed by: DH
Date: Sep 20, 2024
Revision: 1

Project Name

Almonte 2 Battery Energy Storage System

Figure Title

Impact of Proposed Site (Evening / Nighttime) - 4.5m Height Noise Contours

Figure 4

Appendix A
Acoustic Assessment Summary Table

Acoustic Assessment Summary Table

Project: Almonte 2 Battery Storage System
Date: September-2024

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq) or (dBAI)(LLM)	Sound Level Limit (dBA)(Leq) or (dBAI)(LLM)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R01	Existing 1-storey dwelling 540 m northeast	Day	40	45	Yes	Class 3	No
		Evening	37	45	Yes	Class 3	No
		Night	37	40	Yes	Class 3	No
R01g	Outdoor points of reception associated with R01 530 m northeast	Day	40	45	Yes	Class 3	No
		Evening	37	45	Yes	Class 3	No
R02	Existing 2-storey dwelling 710 m northeast	Day	39	45	Yes	Class 3	No
		Evening	36	45	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R02g	Outdoor points of reception associated with R02 670 m northeast	Day	38	45	Yes	Class 3	No
		Evening	35	45	Yes	Class 3	No
R03	Existing 1-storey dwelling 710 m north	Day	37	45	Yes	Class 3	No
		Evening	34	45	Yes	Class 3	No
		Night	34	40	Yes	Class 3	No
R03g	Outdoor points of reception associated with R03 700 m north	Day	38	45	Yes	Class 3	No
		Evening	34	45	Yes	Class 3	No
R04	Existing 2-storey dwelling 680 m north	Day	40	45	Yes	Class 3	No
		Evening	37	45	Yes	Class 3	No
		Night	37	40	Yes	Class 3	No
R04g	Outdoor points of reception associated with R04 660 m north	Day	38	45	Yes	Class 3	No
		Evening	35	45	Yes	Class 3	No
R05	Existing 1-storey dwelling 620 m west	Day	39	45	Yes	Class 3	No
		Evening	36	45	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R05g	Outdoor points of reception associated with R05 600 m west	Day	39	45	Yes	Class 3	No
		Evening	36	45	Yes	Class 3	No
R06	Existing 2-storey dwelling 710 m west	Day	39	45	Yes	Class 3	No
		Evening	36	45	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R06g	Outdoor points of reception associated with R06 690 m west	Day	38	45	Yes	Class 3	No
		Evening	34	45	Yes	Class 3	No
R07	Existing 1-storey dwelling 700 m southwest	Day	37	45	Yes	Class 3	No
		Evening	34	45	Yes	Class 3	No
		Night	34	40	Yes	Class 3	No

Acoustic Assessment Summary Table

Project: Almonte 2 Battery Storage System
Date: September-2024

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq) or (dBAI)(LLM)	Sound Level Limit (dBA)(Leq) or (dBAI)(LLM)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R07g	Outdoor points of reception associated with R07 680 m southwest	Day	38	45	Yes	Class 3	No
		Evening	34	45	Yes	Class 3	No
R08	Existing 2-storey dwelling 500 m southwest	Day	43	45	Yes	Class 3	No
		Evening	40	45	Yes	Class 3	No
		Night	40	40	Yes	Class 3	No
R08g	Outdoor points of reception associated with R08 480 m southwest	Day	41	45	Yes	Class 3	No
		Evening	38	45	Yes	Class 3	No
R09	Existing 2-storey dwelling 690 m south	Day	39	45	Yes	Class 3	No
		Evening	36	45	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R09g	Outdoor points of reception associated with R09 660 m south	Day	38	45	Yes	Class 3	No
		Evening	35	45	Yes	Class 3	No
R10	Existing 2-storey dwelling 690 m south	Day	40	45	Yes	Class 3	No
		Evening	37	45	Yes	Class 3	No
		Night	37	40	Yes	Class 3	No
R10g	Outdoor points of reception associated with R10 660 m south	Day	38	45	Yes	Class 3	No
		Evening	35	45	Yes	Class 3	No
R11	Existing 2-storey dwelling 700 m south	Day	40	45	Yes	Class 3	No
		Evening	37	45	Yes	Class 3	No
		Night	37	40	Yes	Class 3	No
R11g	Outdoor points of reception associated with R11 690 m south	Day	38	45	Yes	Class 3	No
		Evening	35	45	Yes	Class 3	No
R12	Existing 2-storey dwelling 670 m south	Day	39	50	Yes	Class 2	No
		Evening	37	45	Yes	Class 2	No
		Night	37	45	Yes	Class 2	No
R12g	Outdoor points of reception associated with R12 640 m south	Day	38	50	Yes	Class 2	No
		Evening	35	45	Yes	Class 2	No
R13	Existing 1-storey dwelling 600 m south	Day	39	50	Yes	Class 2	No
		Evening	36	50	Yes	Class 2	No
		Night	36	45	Yes	Class 2	No

Acoustic Assessment Summary Table

Project: Almonte 2 Battery Storage System
Date: September-2024

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq) or (dBAI)(LLM)	Sound Level Limit (dBA)(Leq) or (dBAI)(LLM)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R13g	Outdoor points of reception associated with R13 570 m south	Day	40	50	Yes	Class 2	No
		Evening	37	45	Yes	Class 2	No
R14	Existing 2-storey dwelling 1010 m east	Day	34	50	Yes	Class 2	No
		Evening	31	50	Yes	Class 2	No
		Night	31	45	Yes	Class 2	No
R14g	Outdoor points of reception associated with R14 990 m east	Day	33	50	Yes	Class 2	No
		Evening	30	45	Yes	Class 2	No
VL15	Noise sensitive zoned lot 750 m east	Day	39	45	Yes	Class 3	No
		Evening	36	50	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R_Outer	All receptors outside of 660 m	Day	< 40	45	Yes	Class 3	No
		Evening	< 40	45	Yes	Class 3	No
		Night	< 40	40	Yes	Class 3	No

Appendix B

MECP Acoustic Assessment Report Checklist and Statement of Accuracy of Information

Ontario

Ministry of the Environment, Conservation and Parks

Acoustic Assessment Report Check-List

Company Name

Almonte BESS Inc.

Company Address

Unit Number	Street Number	Street Name	PO Box
506	192	Spadina Avenue	

City/Town	Province	Postal Code
Toronto	Ontario	M5T 2C2

Location of Facility
6299 County Road 29, Mississippi Mills, Ontario

The attached Acoustic Assessment Report was prepared in accordance with the guidance in the ministry document “Information to be Submitted for Approval of Stationary Sources of Sound” (NPC-233) dated October 1995 and the minimum required information identified in the check-list on the reverse of this sheet has been submitted.

Company Contact

Company Contact
Almonte BESS Inc.

Last Name	First Name	Middle Initial
Cheszes	Jonathan	

Title	Telephone Number
President	647 234-3124

Signature	Date (yyyy/mm/dd)
	2024/09/21

Technical Contact

Technical Contact
Duncan Halstead

Last Name	First Name	Middle Initial
Halstead	Duncan	

Representing	Telephone Number
Aercoustics Engineering Limited	647 931-9037

Signature	Date (yyyy/mm/dd)
	2024/09/20

	Required Information	Submitted	Explanation/Reference
1.0	**Introduction (Project Background and Overview)**	☑ Yes	
2.0	**Facility Description**		
	2.1 Operating hours of Facility and significant Noise Sources	☑ Yes	
	2.2 Site Plan identifying all significant Noise Sources	☑ Yes	
3.0	**Noise Source Summary**		
	3.1 Noise Source Summary Table	☑ Yes	
	3.2 Source noise emissions specifications	☑ Yes	
	3.3 Source power/capacity ratings	☑ Yes	
	3.4 Noise control equipment description and acoustical specifications	☑ Yes	
4.0	**Point of Reception Noise Impact Calculations**		
	4.1 Point of Reception Noise Impact Table	☑ Yes	
	4.2 Point(s) of Reception (POR) list and description	☑ Yes	
	4.3 Land-use Zoning Plan	☑ Yes	
	4.4 Scaled Area Location Plan	☑ Yes	
	4.5 Procedure used to assess noise impacts at each POR	☑ Yes	
	4.6 List of parameters/assumptions used in calculations	☑ Yes	
5.0	**Acoustic Assessment Summary**		
	5.1 Acoustic Assessment Summary Table	☑ Yes	
	5.2 Rationale for selecting applicable noise guideline limits	☑ Yes	
	5.3 Predictable Worst Case Impacts Operating Scenario	☑ Yes	
6.0	**Conclusions**		
	6.1 Statement of compliance with the selected noise performance limits	☑ Yes	
7.0	**Appendices (Provide details such as)**		
	Listing of Insignificant Noise Sources	☑ Yes	
	Manufacturer's Noise Specifications	☐ Yes	N/A
	Calculations	☑ Yes	
	Instrumentation	☐ Yes	N/A
	Meteorology during Sound Level Measurements	☐ Yes	N/A
	Raw Data from Measurements	☐ Yes	N/A
	Drawings (Facility / Equipment)	☑ Yes	

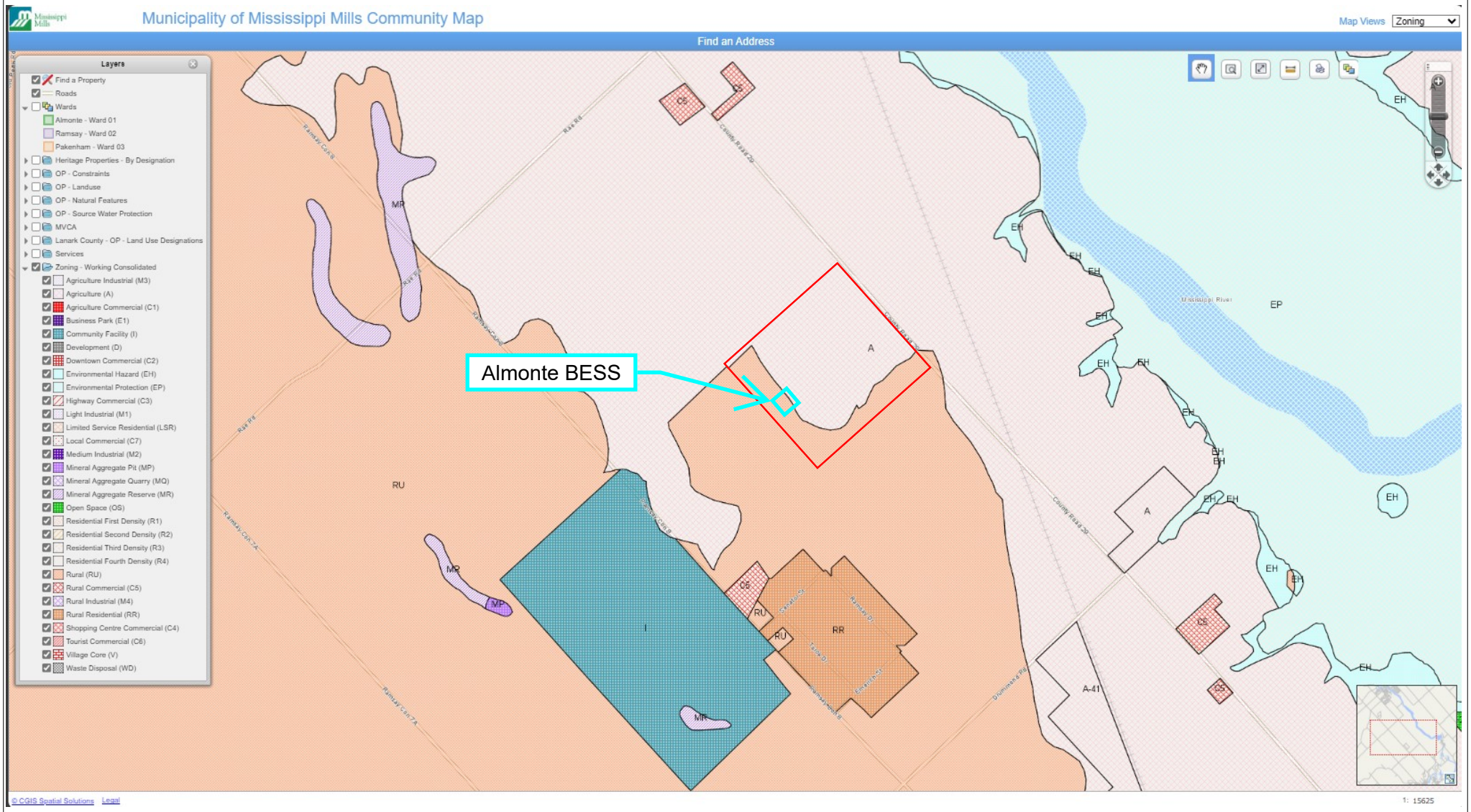
Statement of Accuracy of Information

I, **Jonathan Cheszes**, confirm that as a representative of **Almonte BESS Inc.**, all the information I have provided to Aercoustics Engineering Limited in order to prepare the noise report for the facility located at **6299 County Road 29, Mississippi Mills, ON**, is complete and accurate to the best of my knowledge.

Signature 

Date 2024/09/21

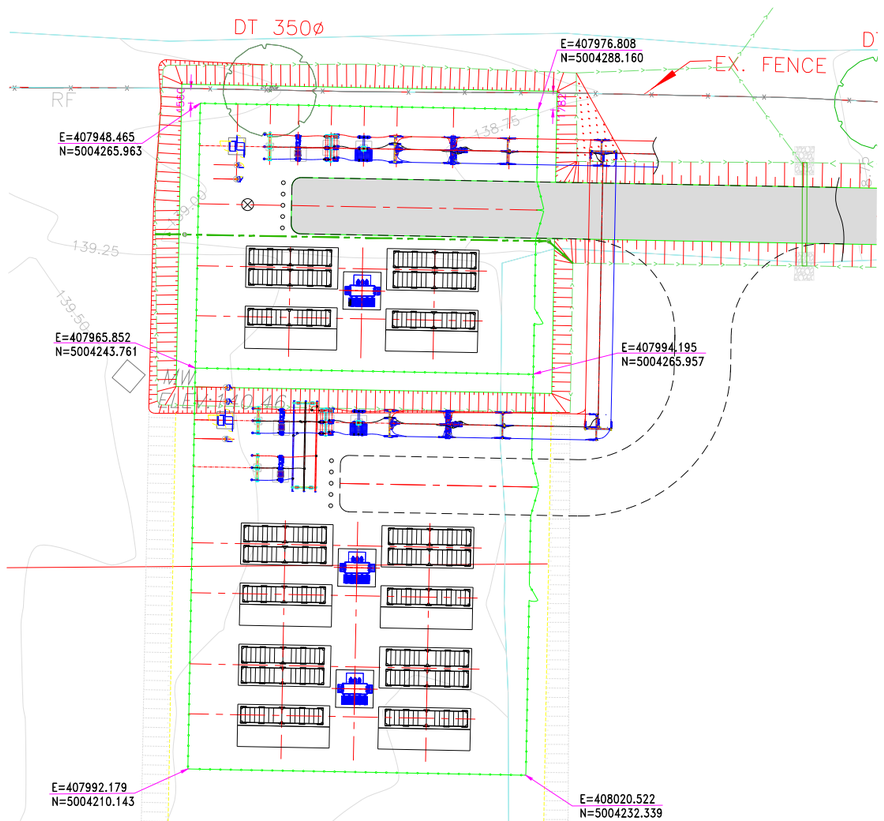
Appendix C
Zoning Maps and Site Plan



aercoustics	Project ID: 23021.00 Scale: NTS Drawn by: HF Reviewed by: DH Date: May 22, 2024 Revision: 1	**Project Name** Almonte Battery Energy Storage System **Figure Title** Zoning Map

Figure C.1

OVERALL SITE LAYOUT PLAN



BESS AREA

NOTES:

1. FOR EQUIPMENT LAYOUT PLAN, SEE DWG# 2428-E101.
2. COORDINATE SYSTEM : UTM84 ZONE 18N.
3. ALL DIMENSIONS AS SHOWN ARE METRIC IN MILLIMETER EXCEPT COORDINATES ARE IN METER U.N.O.

REV.	REMARKS	DATE	DRAWN	CHECKED	APPROVED
A	PRELIMINARY ISSUE	07/17/2024	HB	AP	KW

ISSUE FOR REVIEW

COMPASS ENERGY CONSULTING

Black & McDonald

BLACK & McDONALD LTD.
31 PULLMAN CRT.
SCARBOROUGH, ONT.
M1X 1E4
TEL (416) 291-8200
FAX (416) 291-2282

COMPASS ENERGY ALMONTE BESS

ALMONTE 2 (9.98 MV BESS)
SITE LAYOUT PLAN

CLIENT DRAWING NUMBER: XXXXX

DRAWING NUMBER	REVISION	SHEET
2428-C01	A	0001

DATE	DRAWN:	CHECKED:	APPROVED:	SCALE:
07/17/2024	HB	AP	KW	N.T.S

Chimax Inc.
Engineering Company

ENG. SEAL

ANSI D (34.00 X 22.00 INCHES)

Appendix D
Noise Source Summary Table and
Insignificant Noise Sources

Noise Source Summary Table

Source ID	Source Description	Sound Power Level (dBA)	Source Location[1]	Sound Characteristic[2]	Noise Control Measures[3]
DT_Megapack	Battery Storage Container - 4-hour, 60% fan speed Megapack 2XL (Tesla)	99*	O	T	U
NT_Megapack	Battery Storage Container - 4-hour, 50% fan speed Megapack 2XL (Tesla)	96*	O	T	U
MVTX	Medium-Voltage Transformer - 6MVA	89*	O	T	U

*Includes attenuation due to silencing and/or penalty adjustment.

1. O: located/installed outside the building, including on the roof, I: located/installed inside the building
2. S: Steady; Q: Quasi Steady Impulsive; I: Impulsive; B: Buzzing; T: Tonal; C: Cyclic
3. S: Silencer, Acoustic Louvre, Muffler; A: Acoustics lining, Plenum; B: Barrier, Berm, Screening; E: Acoustic Enclosure; O: Other; U: Uncontrolled R: Removed from Service

Insignificant Noise Sources

Source Description	Location	Reasoning
Minor electrical equipment	Site wide	Low sound level
Small vehicle movements	Site wide	Infrequent and low sound level

Appendix E
Sound Power Data

Sound Power Data

Source ID	63	125	250	500	1000	2000	4000	8000	A	Lin
DT_Megapack	73	74	90	86	87	86	83	72	**94**	**112**
NT_Megapack	70	71	87	82	84	83	80	68	**91**	**109**
MVTX	60	72	75	80	77	73	68	59	**84**	**92**

Note:

- Octave-band and overall sound power levels do not include the 5 dB tonal penalty.

Appendix F
Noise Prediction Methodology

Noise Prediction Methodology

The relevant noise sources were identified and a one-hour L_{EQ} was defined for each of them.

Noise levels for the work cycles were taken as continuous throughout the design hour, unless indicated otherwise.

Predictable worst-case scenarios were defined on the basis of maximum noise impact at each of the representative points of reception. Propagation paths were defined in terms of topography, distances and elevations. Noise levels were predicted using the methodology of the International Standard ISO 9613-2 Acoustics - Attenuation of Sound During Propagation Outdoors.

Standard point source distance attenuation was applied to all noise sources. Barrier attenuation was calculated using standard diffraction theory. Single barrier attenuation was limited to 20 dB while double barrier attenuation was limited to 25 dB. Attenuation from air absorption and ground effect was included in the predictions. Noise levels were predicted under conditions of downwind propagation with a mild temperature inversion. It is under these conditions that the noise impact will typically be at a maximum.

Parameters of noise impact predictions are included in protocol tables for the sensitive points of reception and are included to illustrate the methodology.

Appendix G
Sample Calculations and Point of Reception Tables

Project: Almonte 2 Battery Storage System
Project Number: 23021

Source ID	Source Name	Point of Reception R01		Point of Reception R01g		Point of Reception R02		Point of Reception R02g		Point of Reception R03	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
DT_Megapack16	60% Megapack	544	28	529	29	708	28	677	26	738	25
DT_Megapack15	60% Megapack	544	28	529	29	708	28	676	26	735	22
DT_Megapack18	60% Megapack	544	29	530	29	708	28	676	26	734	26
DT_Megapack10	60% Megapack	545	28	531	28	708	27	676	26	731	26
DT_Megapack09	60% Megapack	546	30	531	30	707	27	675	26	728	23
DT_Megapack12	60% Megapack	546	28	531	28	707	27	675	26	727	27
DT_Megapack04	60% Megapack	550	28	535	28	707	27	675	26	716	26
DT_Megapack06	60% Megapack	550	28	536	29	706	28	675	27	713	23
DT_Megapack03	60% Megapack	550	28	536	28	706	28	674	28	712	27
DT_Megapack14	60% Megapack	559	27	544	27	723	26	692	24	751	22
DT_Megapack13	60% Megapack	559	27	545	27	723	25	691	23	748	22
DT_Megapack17	60% Megapack	559	25	545	25	723	26	691	24	747	25
DT_Megapack08	60% Megapack	560	28	546	28	723	24	691	23	744	23
DT_Megapack07	60% Megapack	561	25	546	25	722	24	691	23	741	23
DT_Megapack11	60% Megapack	561	25	547	25	722	24	691	24	740	27
DT_Megapack02	60% Megapack	565	28	550	28	722	24	690	24	729	22
DT_Megapack01	60% Megapack	565	25	551	25	722	24	690	23	726	22
DT_Megapack05	60% Megapack	565	25	551	25	722	25	690	25	725	27
A02_MVTX03	MVTX	552	16	537	17	715	16	684	15	741	14
A02_MVTX02	MVTX	553	17	539	17	715	18	683	16	736	15
A02_MVTX01	MVTX	558	17	543	17	715	18	683	16	721	15
Total Level [dBA]			**40**		**40**		**39**		**38**		**37**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R03g		Point of Reception R04		Point of Reception R04g		Point of Reception R05		Point of Reception R05g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
DT_Megapack16	60% Megapack	725	25	714	24	698	23	667	24	647	24
DT_Megapack15	60% Megapack	722	22	710	28	695	26	664	24	645	24
DT_Megapack18	60% Megapack	721	26	709	29	693	27	662	26	643	26
DT_Megapack10	60% Megapack	718	26	704	26	689	26	658	25	639	25
DT_Megapack09	60% Megapack	715	23	701	28	685	26	655	24	636	24
DT_Megapack12	60% Megapack	714	27	699	29	684	27	654	28	635	28
DT_Megapack04	60% Megapack	702	26	683	25	667	23	639	25	620	26
DT_Megapack06	60% Megapack	699	23	679	28	664	26	636	24	617	24
DT_Megapack03	60% Megapack	698	27	678	29	662	27	635	28	616	28
DT_Megapack14	60% Megapack	737	22	724	24	708	23	655	25	636	25
DT_Megapack13	60% Megapack	735	22	720	24	705	23	652	26	633	27
DT_Megapack17	60% Megapack	734	25	719	27	703	26	651	27	632	28
DT_Megapack08	60% Megapack	730	23	714	25	699	25	646	25	627	25
DT_Megapack07	60% Megapack	728	24	711	28	696	26	644	26	624	27
DT_Megapack11	60% Megapack	727	27	710	30	694	28	642	28	623	28
DT_Megapack02	60% Megapack	715	23	693	25	678	23	627	25	608	25
DT_Megapack01	60% Megapack	712	23	690	25	674	23	624	27	605	27
DT_Megapack05	60% Megapack	711	27	689	29	673	27	623	28	604	28
A02_MVTX03	MVTX	728	15	715	16	699	16	657	15	638	17
A02_MVTX02	MVTX	723	16	707	16	692	15	650	16	631	16
A02_MVTX01	MVTX	707	16	686	16	671	15	631	15	612	15
Total Level [dBA]			**37**		**40**		**38**		**39**		**39**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R07g		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
DT_Megapack16	60% Megapack	737	24	717	23	728	22	712	23	515	30
DT_Megapack15	60% Megapack	736	24	715	23	727	23	711	23	516	30
DT_Megapack18	60% Megapack	735	24	715	23	726	25	710	24	516	28
DT_Megapack10	60% Megapack	733	25	712	23	724	23	708	23	516	30
DT_Megapack09	60% Megapack	731	26	711	24	723	22	707	23	516	28
DT_Megapack12	60% Megapack	731	29	710	27	723	26	707	26	517	28
DT_Megapack04	60% Megapack	723	24	702	23	717	23	701	24	519	31
DT_Megapack06	60% Megapack	722	24	701	23	716	23	700	23	520	27
DT_Megapack03	60% Megapack	722	28	701	27	716	26	700	26	520	27
DT_Megapack14	60% Megapack	723	27	703	25	713	25	697	25	500	31
DT_Megapack13	60% Megapack	722	25	701	24	712	24	696	25	500	31
DT_Megapack17	60% Megapack	721	28	700	27	711	26	696	26	500	31
DT_Megapack08	60% Megapack	718	27	698	26	709	26	693	26	501	31
DT_Megapack07	60% Megapack	717	26	696	24	708	24	692	24	501	31
DT_Megapack11	60% Megapack	716	28	696	27	708	26	692	26	501	31
DT_Megapack02	60% Megapack	709	28	688	26	702	26	686	26	504	31
DT_Megapack01	60% Megapack	708	26	687	24	701	25	685	25	505	31
DT_Megapack05	60% Megapack	707	28	686	27	701	26	685	26	505	31
A02_MVTX03	MVTX	728	16	708	15	719	13	703	14	508	17
A02_MVTX02	MVTX	725	16	704	16	716	15	700	16	508	21
A02_MVTX01	MVTX	715	16	694	16	709	14	693	14	512	20
Total Level [dBA]			**39**		**38**		**37**		**38**		**43**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R09g		Point of Reception R10		Point of Reception R10g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
DT_Megapack16	60% Megapack	490	28	707	28	676	26	704	28	674	26
DT_Megapack15	60% Megapack	491	28	708	24	678	23	707	29	676	28
DT_Megapack18	60% Megapack	491	27	708	24	678	23	708	24	677	23
DT_Megapack10	60% Megapack	491	29	710	28	679	26	711	24	680	23
DT_Megapack09	60% Megapack	492	26	711	26	681	25	713	24	683	23
DT_Megapack12	60% Megapack	492	26	711	24	681	23	714	24	684	23
DT_Megapack04	60% Megapack	494	29	718	28	688	26	725	28	696	26
DT_Megapack06	60% Megapack	495	26	719	25	689	24	728	29	698	27
DT_Megapack03	60% Megapack	496	26	720	24	690	23	729	24	699	23
DT_Megapack14	60% Megapack	475	30	692	28	662	26	691	28	661	26
DT_Megapack13	60% Megapack	476	30	693	28	663	26	693	29	663	27
DT_Megapack17	60% Megapack	476	30	693	27	663	26	694	24	664	23
DT_Megapack08	60% Megapack	476	30	695	28	665	26	697	28	667	26
DT_Megapack07	60% Megapack	477	29	696	29	666	27	700	29	670	27
DT_Megapack11	60% Megapack	477	30	697	26	667	24	701	25	671	24
DT_Megapack02	60% Megapack	479	29	703	27	673	26	713	27	683	26
DT_Megapack01	60% Megapack	480	30	705	28	675	27	715	29	686	26
DT_Megapack05	60% Megapack	481	29	705	26	675	24	716	25	686	24
A02_MVTX03	MVTX	483	17	701	14	670	14	700	15	670	16
A02_MVTX02	MVTX	484	19	703	14	673	14	705	15	675	15
A02_MVTX01	MVTX	487	19	711	14	681	14	720	17	690	16
Total Level [dBA]			**41**		**39**		**38**		**40**		**38**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R11		Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
DT_Megapack16	60% Megapack	713	30	702	28	676	29	647	27	605	28
DT_Megapack15	60% Megapack	716	28	705	26	680	27	651	26	609	27
DT_Megapack18	60% Megapack	718	24	706	23	681	25	653	24	611	26
DT_Megapack10	60% Megapack	722	24	710	23	687	26	658	26	617	26
DT_Megapack09	60% Megapack	725	27	713	25	691	27	662	26	621	27
DT_Megapack12	60% Megapack	726	24	714	23	692	25	664	25	623	24
DT_Megapack04	60% Megapack	741	29	729	27	712	26	683	25	644	26
DT_Megapack06	60% Megapack	744	26	732	25	716	27	687	26	648	27
DT_Megapack03	60% Megapack	745	24	733	22	718	25	689	24	650	25
DT_Megapack14	60% Megapack	702	29	690	27	668	29	639	27	599	28
DT_Megapack13	60% Megapack	705	28	693	26	672	27	643	27	603	27
DT_Megapack17	60% Megapack	706	24	694	23	673	27	645	26	605	26
DT_Megapack08	60% Megapack	710	29	698	27	679	26	650	26	611	26
DT_Megapack07	60% Megapack	713	26	701	25	683	27	654	26	615	27
DT_Megapack11	60% Megapack	714	25	702	23	685	25	656	23	617	24
DT_Megapack02	60% Megapack	730	29	718	27	705	28	676	27	638	28
DT_Megapack01	60% Megapack	733	26	721	24	709	27	680	25	642	26
DT_Megapack05	60% Megapack	734	25	722	23	710	24	681	23	644	24
A02_MVTX03	MVTX	711	16	699	16	677	18	648	16	607	17
A02_MVTX02	MVTX	717	15	706	14	685	15	656	15	616	15
A02_MVTX01	MVTX	737	16	725	14	710	19	681	16	643	16
Total Level [dBA]			**40**		**38**		**39**		**38**		**39**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R13g		Point of Reception R14		Point of Reception R14g		Point of Reception VL15	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
DT_Megapack16	60% Megapack	576	29	1013	24	986	23	753	29
DT_Megapack15	60% Megapack	580	27	1015	21	988	22	756	27
DT_Megapack18	60% Megapack	581	27	1017	21	990	19	757	24
DT_Megapack10	60% Megapack	587	27	1021	24	994	23	762	28
DT_Megapack09	60% Megapack	591	27	1024	20	997	22	765	27
DT_Megapack12	60% Megapack	593	25	1025	20	998	19	766	23
DT_Megapack04	60% Megapack	614	27	1040	23	1014	21	782	28
DT_Megapack06	60% Megapack	618	28	1043	20	1016	19	785	26
DT_Megapack03	60% Megapack	620	25	1044	20	1018	19	786	23
DT_Megapack14	60% Megapack	570	29	1025	24	997	24	765	29
DT_Megapack13	60% Megapack	574	28	1027	21	1000	19	767	27
DT_Megapack17	60% Megapack	575	27	1029	21	1001	19	769	24
DT_Megapack08	60% Megapack	581	27	1033	21	1006	19	773	24
DT_Megapack07	60% Megapack	585	27	1035	21	1009	19	776	26
DT_Megapack11	60% Megapack	587	25	1037	20	1010	19	777	23
DT_Megapack02	60% Megapack	609	28	1052	24	1025	22	793	29
DT_Megapack01	60% Megapack	613	27	1054	20	1028	19	796	27
DT_Megapack05	60% Megapack	614	24	1056	20	1029	19	797	23
A02_MVTX03	MVTX	577	18	1022	11	995	12	762	14
A02_MVTX02	MVTX	587	16	1029	11	1002	10	769	14
A02_MVTX01	MVTX	614	16	1048	10	1021	10	790	16
Total Level [dBA]			**40**		**34**		**33**		**39**

Receiver: R01
Project: Almonte 2 Battery Storage System
Project Number: 23021

Time Period	Total (dBA)*
Day	40

Receiver Name	Receiver ID	X	Y	Z
R01	R01	408467 m	5004524 m	1.5 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
DT_Megapack16	60% Megapack	408008.8	5004230.7	2.8	0	99	0.0	A	65.7	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack16	60% Megapack	408008.8	5004230.7	2.8	1	99	0.0	A	66.0	0.0	2.9	0.0	1.9	0.0	0.0	0.0	0.0	8.9	19
DT_Megapack15	60% Megapack	408006.3	5004234.3	2.8	0	99	0.0	A	65.7	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack15	60% Megapack	408006.3	5004234.3	2.8	1	99	0.0	A	66.0	0.0	2.9	0.0	1.9	0.0	0.0	0.0	0.0	8.9	19
DT_Megapack18	60% Megapack	408005.0	5004235.9	2.8	0	99	0.0	A	65.7	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack18	60% Megapack	408005.0	5004235.9	2.8	1	99	0.0	A	65.9	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	4.0	21
DT_Megapack10	60% Megapack	408000.7	5004240.8	2.8	0	99	0.0	A	65.7	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack09	60% Megapack	407998.2	5004244.4	2.8	0	99	0.0	A	65.7	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack09	60% Megapack	407998.2	5004244.4	2.8	1	99	0.0	A	65.9	0.0	3.1	0.0	1.9	0.0	0.0	0.0	0.0	3.6	24
DT_Megapack12	60% Megapack	407996.9	5004246.0	2.8	0	99	0.0	A	65.7	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack04	60% Megapack	407982.6	5004263.9	2.8	0	99	0.0	A	65.8	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack06	60% Megapack	407980.1	5004267.5	2.8	0	99	0.0	A	65.8	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack06	60% Megapack	407980.1	5004267.5	2.8	1	99	0.0	A	66.0	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	6.2	19
DT_Megapack03	60% Megapack	407979.0	5004269.2	2.8	0	99	0.0	A	65.8	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack14	60% Megapack	407996.7	5004221.4	2.8	0	99	0.0	A	65.9	0.0	3.1	1.2	1.9	0.0	0.0	0.0	0.0	0.0	27
DT_Megapack13	60% Megapack	407994.2	5004224.9	2.8	0	99	0.0	A	66.0	0.0	3.1	1.2	1.9	0.0	0.0	0.0	0.0	0.0	27
DT_Megapack17	60% Megapack	407992.9	5004226.4	2.8	0	99	0.0	A	66.0	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack08	60% Megapack	407988.6	5004231.5	2.8	0	99	0.0	A	66.0	0.0	3.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack07	60% Megapack	407986.1	5004235.0	2.8	0	99	0.0	A	66.0	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack11	60% Megapack	407984.8	5004236.5	2.8	0	99	0.0	A	66.0	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack02	60% Megapack	407970.5	5004254.6	2.8	0	99	0.0	A	66.0	0.0	3.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack01	60% Megapack	407968.1	5004258.3	2.8	0	99	0.0	A	66.0	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack05	60% Megapack	407966.9	5004259.7	2.8	0	99	0.0	A	66.0	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
A02_MVTX03	MVTX	407999.4	5004230.4	2.7	0	89	0.0	A	65.8	0.0	3.3	1.5	1.6	0.0	0.0	0.0	0.0	0.0	16
A02_MVTX02	MVTX	407993.1	5004238.1	2.7	0	89	0.0	A	65.9	0.0	3.3	0.9	1.6	0.0	0.0	0.0	0.0	0.0	17
A02_MVTX01	MVTX	407974.8	5004261.2	2.7	0	89	0.0	A	65.9	0.0	3.3	1.1	1.6	0.0	0.0	0.0	0.0	0.0	17

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Receiver: R01g

Project: Almonte 2 Battery Storage System
Project Number: 23021

Time Period	Total (dBA)*
Day	40

Receiver Name	Receiver ID	X	Y	Z
R01g	R01g	408455 m	5004516 m	1.5 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
DT_Megapack16	60% Megapack	408008.8	5004230.7	2.8	0	99	0.0	A	65.5	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack16	60% Megapack	408008.8	5004230.7	2.8	1	99	0.0	A	65.8	0.0	2.9	0.0	1.9	0.0	0.0	0.0	0.0	8.8	20
DT_Megapack15	60% Megapack	408006.3	5004234.3	2.8	0	99	0.0	A	65.5	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack15	60% Megapack	408006.3	5004234.3	2.8	1	99	0.0	A	65.8	0.0	2.9	0.0	1.9	0.0	0.0	0.0	0.0	8.8	20
DT_Megapack18	60% Megapack	408005.0	5004235.9	2.8	0	99	0.0	A	65.5	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack18	60% Megapack	408005.0	5004235.9	2.8	1	99	0.0	A	65.7	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	3.9	21
DT_Megapack10	60% Megapack	408000.7	5004240.8	2.8	0	99	0.0	A	65.5	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack09	60% Megapack	407998.2	5004244.4	2.8	0	99	0.0	A	65.5	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack09	60% Megapack	407998.2	5004244.4	2.8	1	99	0.0	A	65.7	0.0	3.1	0.0	1.9	0.0	0.0	0.0	0.0	3.5	25
DT_Megapack12	60% Megapack	407996.9	5004246.0	2.8	0	99	0.0	A	65.5	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack04	60% Megapack	407982.6	5004263.9	2.8	0	99	0.0	A	65.6	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack06	60% Megapack	407980.1	5004267.5	2.8	0	99	0.0	A	65.6	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack06	60% Megapack	407980.1	5004267.5	2.8	1	99	0.0	A	65.8	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	6.2	19
DT_Megapack03	60% Megapack	407979.0	5004269.2	2.8	0	99	0.0	A	65.6	0.0	3.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack14	60% Megapack	407996.7	5004221.4	2.8	0	99	0.0	A	65.7	0.0	3.0	1.2	1.9	0.0	0.0	0.0	0.0	0.0	27
DT_Megapack13	60% Megapack	407994.2	5004224.9	2.8	0	99	0.0	A	65.7	0.0	3.1	1.2	1.9	0.0	0.0	0.0	0.0	0.0	27
DT_Megapack17	60% Megapack	407992.9	5004226.4	2.8	0	99	0.0	A	65.7	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack08	60% Megapack	407988.6	5004231.5	2.8	0	99	0.0	A	65.7	0.0	3.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack07	60% Megapack	407986.1	5004235.0	2.8	0	99	0.0	A	65.7	0.0	3.0	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack11	60% Megapack	407984.8	5004236.5	2.8	0	99	0.0	A	65.8	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack02	60% Megapack	407970.5	5004254.6	2.8	0	99	0.0	A	65.8	0.0	3.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28
DT_Megapack01	60% Megapack	407968.1	5004258.3	2.8	0	99	0.0	A	65.8	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
DT_Megapack05	60% Megapack	407966.9	5004259.7	2.8	0	99	0.0	A	65.8	0.0	3.1	2.9	1.9	0.0	0.0	0.0	0.0	0.0	25
A02_MVTX03	MVTX	407999.4	5004230.4	2.7	0	89	0.0	A	65.6	0.0	3.3	1.5	1.5	0.0	0.0	0.0	0.0	0.0	17
A02_MVTX02	MVTX	407993.1	5004238.1	2.7	0	89	0.0	A	65.6	0.0	3.3	0.9	1.5	0.0	0.0	0.0	0.0	0.0	17
A02_MVTX01	MVTX	407974.8	5004261.2	2.7	0	89	0.0	A	65.7	0.0	3.3	1.1	1.5	0.0	0.0	0.0	0.0	0.0	17

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Project: Almonte 2 Battery Storage System
Project Number: 23021

Source ID	Source Name	Point of Reception R01		Point of Reception R01g		Point of Reception R02		Point of Reception R02g		Point of Reception R03	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
NT_Megapack16	50% Megapack	544	25	529	25	708	24	677	23	738	22
NT_Megapack15	50% Megapack	544	25	529	25	708	25	676	23	735	19
NT_Megapack18	50% Megapack	544	25	530	26	708	25	676	23	734	23
NT_Megapack10	50% Megapack	545	25	531	25	708	24	676	22	731	22
NT_Megapack09	50% Megapack	546	26	531	26	707	24	675	23	728	19
NT_Megapack12	50% Megapack	546	25	531	25	707	24	675	23	727	23
NT_Megapack04	50% Megapack	550	25	535	25	707	24	675	23	716	23
NT_Megapack03	50% Megapack	550	25	536	25	706	25	675	24	713	19
NT_Megapack06	50% Megapack	550	25	536	25	706	25	675	25	712	23
NT_Megapack14	50% Megapack	559	24	544	24	723	23	692	21	751	19
NT_Megapack13	50% Megapack	559	24	545	24	723	22	691	20	748	19
NT_Megapack17	50% Megapack	559	22	545	22	723	23	691	21	747	21
NT_Megapack08	50% Megapack	560	25	546	25	723	21	691	20	744	20
NT_Megapack07	50% Megapack	561	22	546	22	722	21	691	20	741	20
NT_Megapack11	50% Megapack	561	22	547	22	722	21	691	21	740	24
NT_Megapack02	50% Megapack	565	25	550	25	722	21	690	21	729	19
NT_Megapack01	50% Megapack	565	22	551	22	722	21	690	20	726	19
NT_Megapack05	50% Megapack	566	22	551	22	722	22	690	22	726	23
A02_MVTX03	MVTX	552	16	537	17	715	16	684	15	741	14
A02_MVTX02	MVTX	553	17	539	17	715	18	683	16	736	15
A02_MVTX01	MVTX	558	17	543	17	715	18	683	16	721	15
Total Level [dBA]			**37**		**37**		**36**		**35**		**34**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R03g		Point of Reception R04		Point of Reception R04g		Point of Reception R05		Point of Reception R05g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
NT_Megapack16	50% Megapack	725	22	714	22	698	20	667	20	647	21
NT_Megapack15	50% Megapack	722	19	710	24	695	23	664	20	645	21
NT_Megapack18	50% Megapack	721	23	709	26	693	24	662	23	643	23
NT_Megapack10	50% Megapack	718	23	704	23	689	22	658	22	639	22
NT_Megapack09	50% Megapack	715	20	701	24	685	23	655	21	636	21
NT_Megapack12	50% Megapack	714	24	699	26	684	24	654	25	635	25
NT_Megapack04	50% Megapack	702	23	683	22	667	20	639	22	620	23
NT_Megapack03	50% Megapack	699	20	679	25	664	23	636	21	617	21
NT_Megapack06	50% Megapack	698	24	678	26	662	24	635	25	616	25
NT_Megapack14	50% Megapack	737	19	724	22	708	20	655	21	636	22
NT_Megapack13	50% Megapack	735	19	720	22	705	20	652	23	633	23
NT_Megapack17	50% Megapack	734	22	719	24	703	23	651	24	632	25
NT_Megapack08	50% Megapack	730	20	714	22	699	22	646	21	627	22
NT_Megapack07	50% Megapack	728	21	711	25	696	23	644	23	624	24
NT_Megapack11	50% Megapack	727	24	710	27	694	25	642	24	623	25
NT_Megapack02	50% Megapack	715	20	693	22	678	20	627	22	608	22
NT_Megapack01	50% Megapack	713	20	690	22	674	20	624	24	605	24
NT_Megapack05	50% Megapack	712	24	689	26	673	24	623	25	604	25
A02_MVTX03	MVTX	728	15	715	16	699	16	657	15	638	17
A02_MVTX02	MVTX	723	16	707	16	692	15	650	16	631	16
A02_MVTX01	MVTX	707	16	686	16	671	15	631	15	612	15
Total Level [dBA]			**34**		**37**		**35**		**36**		**36**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R07g		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
NT_Megapack16	50% Megapack	737	21	717	19	728	19	712	19	515	27
NT_Megapack15	50% Megapack	736	21	715	19	727	20	711	19	516	27
NT_Megapack18	50% Megapack	735	21	715	19	726	22	710	21	516	25
NT_Megapack10	50% Megapack	733	22	712	20	724	20	708	20	516	27
NT_Megapack09	50% Megapack	731	23	711	21	723	19	707	20	516	25
NT_Megapack12	50% Megapack	731	26	710	24	723	23	707	23	517	25
NT_Megapack04	50% Megapack	723	21	702	20	717	20	701	20	519	28
NT_Megapack03	50% Megapack	722	21	701	20	716	19	700	20	520	25
NT_Megapack06	50% Megapack	722	25	701	23	716	22	700	23	520	25
NT_Megapack14	50% Megapack	723	24	703	22	713	22	697	22	500	28
NT_Megapack13	50% Megapack	722	22	701	20	712	21	696	21	500	28
NT_Megapack17	50% Megapack	721	25	700	23	711	23	696	23	500	28
NT_Megapack08	50% Megapack	718	24	698	22	709	22	693	23	501	28
NT_Megapack07	50% Megapack	717	23	696	20	708	21	692	21	501	28
NT_Megapack11	50% Megapack	716	25	696	23	708	23	692	23	501	28
NT_Megapack02	50% Megapack	709	25	688	23	702	23	686	23	504	28
NT_Megapack01	50% Megapack	708	23	687	21	701	22	685	23	505	28
NT_Megapack05	50% Megapack	707	25	686	23	701	23	685	23	505	28
A02_MVTX03	MVTX	728	16	708	15	719	13	703	14	508	17
A02_MVTX02	MVTX	725	16	704	16	716	15	700	16	508	21
A02_MVTX01	MVTX	715	16	694	16	709	14	693	14	512	20
Total Level [dBA]			**36**		**34**		**34**		**34**		**40**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R09g		Point of Reception R10		Point of Reception R10g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
NT_Megapack16	50% Megapack	490	25	707	25	676	23	704	25	674	23
NT_Megapack15	50% Megapack	491	25	708	22	678	20	707	26	676	24
NT_Megapack18	50% Megapack	491	24	708	22	678	20	708	22	677	20
NT_Megapack10	50% Megapack	491	26	710	25	679	23	711	22	680	20
NT_Megapack09	50% Megapack	492	23	711	23	681	22	713	21	683	20
NT_Megapack12	50% Megapack	492	23	711	21	681	20	714	21	684	20
NT_Megapack04	50% Megapack	494	26	718	25	688	23	725	25	696	23
NT_Megapack03	50% Megapack	495	23	719	22	689	20	728	26	698	24
NT_Megapack06	50% Megapack	496	23	720	21	690	20	729	21	699	20
NT_Megapack14	50% Megapack	475	27	692	24	662	23	691	25	661	23
NT_Megapack13	50% Megapack	476	27	693	25	663	23	693	26	663	24
NT_Megapack17	50% Megapack	476	27	693	24	663	22	694	22	664	20
NT_Megapack08	50% Megapack	476	27	695	24	665	23	697	24	667	23
NT_Megapack07	50% Megapack	477	26	696	25	666	24	700	26	670	24
NT_Megapack11	50% Megapack	477	26	697	23	667	21	701	22	671	21
NT_Megapack02	50% Megapack	479	26	703	24	673	22	713	24	683	22
NT_Megapack01	50% Megapack	480	27	705	25	675	24	715	26	685	23
NT_Megapack05	50% Megapack	480	26	705	23	675	21	716	22	686	20
A02_MVTX03	MVTX	483	17	701	14	670	14	700	15	670	16
A02_MVTX02	MVTX	484	19	703	14	673	14	705	15	675	15
A02_MVTX01	MVTX	487	19	711	14	681	14	720	17	690	16
Total Level [dBA]			**38**		**36**		**35**		**37**		**35**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R11		Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
NT_Megapack16	50% Megapack	713	26	702	24	676	26	647	24	605	25
NT_Megapack15	50% Megapack	716	25	705	23	680	25	651	23	609	24
NT_Megapack18	50% Megapack	718	21	706	20	681	22	653	21	611	23
NT_Megapack10	50% Megapack	722	21	710	20	687	23	658	22	617	23
NT_Megapack09	50% Megapack	725	24	713	22	691	24	662	23	621	24
NT_Megapack12	50% Megapack	726	21	714	20	692	22	664	22	623	21
NT_Megapack04	50% Megapack	741	26	729	24	712	23	683	22	644	23
NT_Megapack03	50% Megapack	744	23	732	22	716	24	687	23	648	24
NT_Megapack06	50% Megapack	745	21	733	19	718	22	689	21	650	22
NT_Megapack14	50% Megapack	702	26	690	24	668	26	639	24	599	25
NT_Megapack13	50% Megapack	705	25	693	22	672	24	643	23	603	24
NT_Megapack17	50% Megapack	706	21	694	19	673	24	645	23	605	23
NT_Megapack08	50% Megapack	710	26	698	24	679	23	650	23	611	23
NT_Megapack07	50% Megapack	713	24	701	22	683	24	654	23	615	24
NT_Megapack11	50% Megapack	714	22	702	20	685	22	656	20	617	21
NT_Megapack02	50% Megapack	730	26	718	24	705	25	676	24	638	24
NT_Megapack01	50% Megapack	733	23	721	21	709	24	679	22	642	23
NT_Megapack05	50% Megapack	734	22	722	20	710	21	681	20	644	21
A02_MVTX03	MVTX	711	16	699	16	677	18	648	16	607	17
A02_MVTX02	MVTX	717	15	706	14	685	15	656	15	616	15
A02_MVTX01	MVTX	737	16	725	14	710	19	681	16	643	16
Total Level [dBA]			**37**		**35**		**37**		**35**		**36**

Project: Almonte 2 Battery S
Project Number: 23021

Source ID	Source Name	Point of Reception R13g		Point of Reception R14		Point of Reception R14g		Point of Reception VL15	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
NT_Megapack16	50% Megapack	576	26	1013	21	986	20	753	25
NT_Megapack15	50% Megapack	580	24	1015	18	988	19	756	24
NT_Megapack18	50% Megapack	581	23	1017	18	990	16	757	21
NT_Megapack10	50% Megapack	587	23	1021	20	994	20	762	25
NT_Megapack09	50% Megapack	591	24	1024	18	997	19	765	24
NT_Megapack12	50% Megapack	593	22	1025	18	998	16	766	21
NT_Megapack04	50% Megapack	614	24	1040	20	1014	18	782	25
NT_Megapack03	50% Megapack	618	25	1043	17	1016	15	785	24
NT_Megapack06	50% Megapack	620	22	1044	17	1018	15	786	20
NT_Megapack14	50% Megapack	570	26	1025	21	997	20	765	26
NT_Megapack13	50% Megapack	574	25	1027	18	1000	16	767	24
NT_Megapack17	50% Megapack	575	23	1029	18	1001	16	769	21
NT_Megapack08	50% Megapack	581	23	1033	18	1006	16	773	21
NT_Megapack07	50% Megapack	585	24	1035	18	1009	16	776	23
NT_Megapack11	50% Megapack	587	22	1037	18	1010	16	777	21
NT_Megapack02	50% Megapack	609	25	1052	21	1025	18	793	25
NT_Megapack01	50% Megapack	613	24	1054	17	1028	16	796	24
NT_Megapack05	50% Megapack	614	21	1056	17	1029	16	797	20
A02_MVTX03	MVTX	577	18	1022	11	995	12	762	14
A02_MVTX02	MVTX	587	16	1029	11	1002	10	769	14
A02_MVTX01	MVTX	614	16	1048	10	1021	10	790	16
Total Level [dBA]			**37**		**31**		**30**		**36**

Receiver: R01

Project: Almonte 2 Battery Storage System
Project Number: 23021

Time Period	Total (dBA)*
Night	37

Receiver Name	Receiver ID	X	Y	Z
R01	R01	408467 m	5004524 m	1.5 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
NT_Megapack16	50% Megapack	408008.8	5004230.7	2.8	0	96	0.0	A	65.7	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack16	50% Megapack	408008.8	5004230.7	2.8	1	96	0.0	A	66.0	0.0	3.4	0.0	1.8	0.0	0.0	0.0	0.0	8.8	16
NT_Megapack15	50% Megapack	408006.3	5004234.3	2.8	0	96	0.0	A	65.7	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack15	50% Megapack	408006.3	5004234.3	2.8	1	96	0.0	A	66.0	0.0	3.4	0.0	1.8	0.0	0.0	0.0	0.0	8.8	16
NT_Megapack18	50% Megapack	408005.0	5004235.9	2.8	0	96	0.0	A	65.7	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack18	50% Megapack	408005.0	5004235.9	2.8	1	96	0.0	A	65.9	0.0	3.6	2.8	1.8	0.0	0.0	0.0	0.0	4.3	18
NT_Megapack10	50% Megapack	408000.7	5004240.8	2.8	0	96	0.0	A	65.7	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack09	50% Megapack	407998.2	5004244.4	2.8	0	96	0.0	A	65.7	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack09	50% Megapack	407998.2	5004244.4	2.8	1	96	0.0	A	65.9	0.0	3.6	0.0	1.8	0.0	0.0	0.0	0.0	3.7	21
NT_Megapack12	50% Megapack	407996.9	5004246.0	2.8	0	96	0.0	A	65.7	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack04	50% Megapack	407982.6	5004263.9	2.8	0	96	0.0	A	65.8	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack03	50% Megapack	407980.1	5004267.5	2.8	0	96	0.0	A	65.8	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack03	50% Megapack	407980.1	5004267.5	2.8	1	96	0.0	A	66.0	0.0	3.6	2.8	1.8	0.0	0.0	0.0	0.0	6.4	15
NT_Megapack06	50% Megapack	407978.9	5004269.1	2.8	0	96	0.0	A	65.8	0.0	3.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack14	50% Megapack	407996.7	5004221.4	2.8	0	96	0.0	A	65.9	0.0	3.5	1.2	1.8	0.0	0.0	0.0	0.0	0.0	24
NT_Megapack13	50% Megapack	407994.2	5004224.9	2.8	0	96	0.0	A	66.0	0.0	3.6	1.2	1.8	0.0	0.0	0.0	0.0	0.0	24
NT_Megapack17	50% Megapack	407992.9	5004226.4	2.8	0	96	0.0	A	66.0	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack08	50% Megapack	407988.6	5004231.5	2.8	0	96	0.0	A	66.0	0.0	3.5	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack07	50% Megapack	407986.1	5004235.0	2.8	0	96	0.0	A	66.0	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack11	50% Megapack	407984.8	5004236.5	2.8	0	96	0.0	A	66.0	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack02	50% Megapack	407970.5	5004254.6	2.8	0	96	0.0	A	66.0	0.0	3.6	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack01	50% Megapack	407968.0	5004258.1	2.8	0	96	0.0	A	66.0	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack05	50% Megapack	407966.7	5004259.7	2.8	0	96	0.0	A	66.0	0.0	3.6	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
A02_MVTX03	MVTX	407999.4	5004230.4	2.7	0	89	0.0	A	65.8	0.0	3.3	1.5	1.6	0.0	0.0	0.0	0.0	0.0	16
A02_MVTX02	MVTX	407993.1	5004238.1	2.7	0	89	0.0	A	65.9	0.0	3.3	0.9	1.6	0.0	0.0	0.0	0.0	0.0	17
A02_MVTX01	MVTX	407974.8	5004261.2	2.7	0	89	0.0	A	65.9	0.0	3.3	1.1	1.6	0.0	0.0	0.0	0.0	0.0	17

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Receiver: R01g

Project: Almonte 2 Battery Storage System
Project Number: 23021

Time Period	Total (dBA)*
Night	37

Receiver Name	Receiver ID	X	Y	Z
R01g	R01g	408455 m	5004516 m	1.5 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
NT_Megapack16	50% Megapack	408008.8	5004230.7	2.8	0	96	0.0	A	65.5	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack16	50% Megapack	408008.8	5004230.7	2.8	1	96	0.0	A	65.8	0.0	3.4	0.0	1.8	0.0	0.0	0.0	0.0	8.7	16
NT_Megapack15	50% Megapack	408006.3	5004234.3	2.8	0	96	0.0	A	65.5	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack15	50% Megapack	408006.3	5004234.3	2.8	1	96	0.0	A	65.8	0.0	3.4	0.0	1.8	0.0	0.0	0.0	0.0	8.7	16
NT_Megapack18	50% Megapack	408005.0	5004235.9	2.8	0	96	0.0	A	65.5	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack18	50% Megapack	408005.0	5004235.9	2.8	1	96	0.0	A	65.7	0.0	3.6	2.8	1.7	0.0	0.0	0.0	0.0	4.2	18
NT_Megapack10	50% Megapack	408000.7	5004240.8	2.8	0	96	0.0	A	65.5	0.0	3.8	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack09	50% Megapack	407998.2	5004244.4	2.8	0	96	0.0	A	65.5	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack09	50% Megapack	407998.2	5004244.4	2.8	1	96	0.0	A	65.7	0.0	3.6	0.0	1.8	0.0	0.0	0.0	0.0	3.7	21
NT_Megapack12	50% Megapack	407996.9	5004246.0	2.8	0	96	0.0	A	65.5	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack04	50% Megapack	407982.6	5004263.9	2.8	0	96	0.0	A	65.6	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack03	50% Megapack	407980.1	5004267.5	2.8	0	96	0.0	A	65.6	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack03	50% Megapack	407980.1	5004267.5	2.8	1	96	0.0	A	65.8	0.0	3.6	2.8	1.8	0.0	0.0	0.0	0.0	6.4	16
NT_Megapack06	50% Megapack	407978.9	5004269.1	2.8	0	96	0.0	A	65.6	0.0	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack14	50% Megapack	407996.7	5004221.4	2.8	0	96	0.0	A	65.7	0.0	3.5	1.2	1.8	0.0	0.0	0.0	0.0	0.0	24
NT_Megapack13	50% Megapack	407994.2	5004224.9	2.8	0	96	0.0	A	65.7	0.0	3.5	1.2	1.8	0.0	0.0	0.0	0.0	0.0	24
NT_Megapack17	50% Megapack	407992.9	5004226.4	2.8	0	96	0.0	A	65.7	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack08	50% Megapack	407988.6	5004231.5	2.8	0	96	0.0	A	65.7	0.0	3.5	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack07	50% Megapack	407986.1	5004235.0	2.8	0	96	0.0	A	65.7	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack11	50% Megapack	407984.8	5004236.5	2.8	0	96	0.0	A	65.8	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack02	50% Megapack	407970.5	5004254.6	2.8	0	96	0.0	A	65.8	0.0	3.5	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25
NT_Megapack01	50% Megapack	407968.0	5004258.1	2.8	0	96	0.0	A	65.8	0.0	3.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
NT_Megapack05	50% Megapack	407966.7	5004259.7	2.8	0	96	0.0	A	65.8	0.0	3.6	2.8	1.8	0.0	0.0	0.0	0.0	0.0	22
A02_MVTX03	MVTX	407999.4	5004230.4	2.7	0	89	0.0	A	65.6	0.0	3.3	1.5	1.5	0.0	0.0	0.0	0.0	0.0	17
A02_MVTX02	MVTX	407993.1	5004238.1	2.7	0	89	0.0	A	65.6	0.0	3.3	0.9	1.5	0.0	0.0	0.0	0.0	0.0	17
A02_MVTX01	MVTX	407974.8	5004261.2	2.7	0	89	0.0	A	65.7	0.0	3.3	1.1	1.5	0.0	0.0	0.0	0.0	0.0	17

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

End of Report