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Environmental Noise and Vibration Study

12506 & 12698 Heart Lake Road, Caledon, Ontario

Tribal Partners Canada Inc. and TDMSI

201-2700 Steeles Avenue W, Vaughan, ON L4K 3C8

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Acronyms and Abbreviations

dB	Decibels
dBA	Decibels (A-weighted)
dBAI	Decibels (A-weighted), Impulsive
D-series	Series of guidelines by the Ministry of Environment, Conservation, and Parks
EASR	Environmental Activity and Sector Registry
ECA	Environmental Compliance Approval
EPA	Environmental Protection Act
G	Ground absorption factor
Guideline D-2	D-series guideline addressing sewage treatment
Guideline D-3	D-series guideline addressing gas and oil pipelines
Guideline D-4	D-series guideline addressing landfills
Guideline D-5	D-series guideline addressing water services
Guideline D-6	D-series guideline addressing industries; Compatibility between Industrial Facilities and Sensitive Land Uses
HVAC	Heating Ventilation and Air Conditioning
ISO	International Organization for Standardization
kg/m ²	Kilograms per square metre
L _{eq}	Energy Equivalent Sound Level
L _{LM}	Logarithmic Mean Impulse Sound Level
m	Metres
m²	Square metres
MECP	Ministry of the Environment, Conservation and Parks
MMAH	Ontario Ministry of Municipal Affairs and Housing
MUA	Make-up Air
NPC-300	MECP Publication NPC-300
OPA	Official Plan Amendment
PORs	Points of reception
PPS	Provincial Planning Statement
PWL	Sound Power Level
Rd	Road
SLM	Sound Level Meter



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SPA	Site Plan Approval
SPL	Sound Pressure Level
ZBA	Zoning By-law Amendment
SLR	SLR Consulting (Canada) Ltd.
Tribal	Tribal Partners Canada Inc.
ON	Ontario



1.0 Introduction

SLR Consulting (Canada) Ltd. (SLR) was retained by Tribal Partners Canada Inc., and its management arm TDMSI (Tribal) to conduct an environmental noise and vibration assessment for the proposed 12506 & 12698 Heart Lake Road industrial/employment project in Caledon, Ontario (ON) in support of an official plan amendment (OPA) and zoning bylaw amendment (ZBA).

1.1 Nature of the Subject Lands

The official address of the proposed development is 12506 & 12698 Heart Lake Road in Caledon, ON and will be located northwest of highway 410. The current lands are used for agricultural purposes.

The proposed development will consist of four warehouse/ industrial buildings with a gross floor area of 158,167 square metres (m²). The buildings will have:

- 32 loading docks along the south façade of Building A;
- 32 loading docks along the north façade of Building B;
- 43 loading docks along the north façade of Building C;
- 45 loading docks along the south façade of Building C;
- 45 loading docks along the north façade of Building D; and
- 50 loading docks along the south façade of Building D.

Road access will be from Heart Lake Road and the proposed Larson Peak extension.

The development drawings are included in Appendix A.

1.2 Nature of the Surroundings

The lands surrounding the development are dominated by agricultural lands, industrial lands, and residential. One and two storey single family homes are located around the proposed site on Bonnieglen Farm Boulevard and Heart Lake Road. These residences correspond to the nearest noise sensitive receptors to the development.

The surrounding topography is mainly flat with no significant variations.

A context plan is shown in Figure 1.

2.0 Assessment Framework

The intent of this report is to identify any existing and potential land use compatibility issues and to identify and evaluate options to achieve appropriate design, buffering and/or separation distances between the proposed industrial land uses, including residential uses, and nearby industrial areas and/or major facilities. Recommended measures intended to eliminate or mitigate negative impacts and adverse effects are provided.



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The requirements of Ontario's planning regime are organized such that generic policy is informed by specific policy, guidance, and legislation, as follows:

- The Ministry of Environment, Conservation, and Parks (MECP) D-series of guidelines set out methods to determine if assessments are required (areas of influence, recommended separation distances, and the need for additional studies); then
- MECP and Municipal regulations, policies, standards and guidelines then set out the requirements of additional air quality, noise and vibration studies and the applicable policies, standards, guidelines and objectives to ensure that adverse effects do not occur.

2.1 D-Series of Guidelines

The D-series of guidelines were developed by the MECP in 1995 as a means to assess recommended separation distances and other control measures for land use planning proposals in an effort to prevent or minimize 'adverse effects' from the encroachment of incompatible land uses where a facility either exists or is proposed. D-series guidelines address sources including sewage treatment (Guideline D-2), gas and oil pipelines (Guideline D3), landfills (Guideline D-4), water services (Guideline D-5) and industries (Guideline D-6).

For this project, the applicable guideline is Guidelines D-6 - *Compatibility between Industrial Facilities and Sensitive Land Uses*. Guideline D-6 specifically addresses issues of air quality, odour, dust, noise, and litter from industrial facilities.

Adverse effect is a term defined in the Environmental Protection Act and "means one or more of

- impairment of the quality of the natural environment for any use that can be made of it,
- injury or damage to property or to plant or animal life,
- harm or material discomfort to any person,
- an adverse effect on the health of any person,
- · impairment of the safety of any person,
- rendering any property or plant or animal life unfit for human use,
- loss of enjoyment of normal use of property, and
- interference with the normal conduct of business".

2.1.1 Guideline D-6 Requirements

To minimize the potential to cause an adverse effect from industrial operations, areas of influence and recommended minimum setback distances are included within Guideline D-6. The areas of influence and recommended separation distances from the guideline are provided in the table below.



Table A: Guideline D-6 - Potential Influence Areas and Recommended Minimum Setback Distances for Industrial Land Uses

Industry Classification	Area of Influence	Recommended Minimum Setback Distance
Class I – Light Industrial	70 metres (m)	20 m
Class II – Medium Industrial	300 m	70 m
Class III – Heavy Industrial	1000 m	300 m

Industrial categorization criteria are supplied in Guideline D-6-2, and are shown in the following table:

Table B: Guideline D-6 - Industrial Categorization Criteria

Category	Outputs	Scale	Process	Operations / Intensity	Possible Examples
Class I Light Industry	 Noise: Sound not audible off- property Dust: Infrequent and not intense Odour: Infrequent and not intense Vibration: No ground- borne vibration on plant property 	No outside storage Small-scale plant or scale is irrelevant in relation to all other criteria for this Class	Self- contained plant or building which produces/ stores a packaged product Low probability of fugitive emissions	 Daytime operations only Infrequent movement of products and/ or heavy trucks 	 Electronics manufacturing and repair Furniture repair and refinishing Beverage bottling Auto parts supply Packaging and crafting services Distribution of dairy products Laundry and linen supply



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Category	Outputs	Scale	Process	Operations / Intensity	Possible Examples
Class II Medium Industry	 Noise: Sound occasionally heard off- property Dust: Frequent and occasionally intense Odour: Frequent and occasionally intense Vibration: Possible ground- borne vibration, but cannot be perceived off-property 	Outside storage permitted Medium level of production allowed	Open process Periodic outputs of minor annoyance Low probability of fugitive emissions	Shift operations permitted Frequent movements of products and/ or heavy trucks with the majority of movements during daytime hours	 Magazine printing Paint spray booths Metal command Electrical production Manufacturing of dairy products Dry cleaning services Feed packing plants
Class III Heavy Industry	 Noise: Sound frequently audible off property Dust: Persistent and/ or intense Odour: Persistent and/ or intense Vibration: Ground- borne vibration can frequently be perceived off-property 	Outside storage of raw and finished products Large production levels	 Open process Frequent outputs of major annoyances High probability of fugitive emissions 	 Continuous movement of products and employees Daily shift operations permitted 	 Paint and varnish manufacturing Organic chemical manufacturing Breweries Solvent recovery plants Soaps and detergent manufacturing Metal refining and manufacturing



2.1.2 Requirements for Assessments

The D-Series of Guidelines require that studies be conducted to assess impacts where sensitive land uses are proposed within the potential area of influence of a facility. This report is intended to fulfill this requirement.

The D-series guidelines reference previous versions of the noise guidelines (Publications NPC-205 and LU-131). However, the D-Series of guidelines are still in force, still represent current MECP policy and are specifically referenced in numerous other current MECP policies. In applying the D-series guidelines, the current policies, regulations, standards and guidelines have been used (e.g., Publication NPC-300).

2.1.3 Requirements for Minimum Separation Distances

Guideline D-6 also *recommends* that no sensitive land use be placed within the Recommended Minimum Separation Distance. However, it should be noted that this is a recommendation only. Section 4.10 of the Guideline allows for development within the separation distance, in cases of redevelopment, infilling, and transitions to mixed use, provided that the appropriate studies are conducted and that the relevant noise guidelines are met.

3.0 Industry Classification

Based on the proposed facility description the potential for noise impacts on the surrounding sensitive land uses exists. Potential sources of noise impacts include roof top mechanical units, idling truck and truck traffic inside the proposed development. According to the D-6 Guidelines, the facility could be classified as a Class I or II industry. Due to the main noise being generated by trucking activities at a dry storage facility, a Class I has been deemed appropriate for this site.

3.1 Minimum Separation Distance and Potential Area of Influence

Based on the D-6 Guidelines, the Project site has 20 metres (m) recommended minimum separation and potential area of influence up to 70 m.

These separation distances are illustrated in Figure 2.

The proposed industrial development is surrounded by existing noise sensitive land uses. As a result, a detailed noise study was completed for the proposed development.

The local area surrounding the project is being changed more towards industrial/commercial uses. The surrounding existing noise sensitive land uses may change to become industrial commercial in the near future. This study should be updated, if any of the surrounding land uses are converted to be non-noise sensitive.



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4.0 Applicable Guideline Limits

4.1 Industrial (Stationary) Sources

4.1.1 Guidelines

4.1.1.1 Ministry of the Environment, Conservation and Parks Publication NPC-300 Guidelines for Stationary Noise

The applicable MECP noise guidelines for new sensitive land uses adjacent to existing industrial commercial uses are provided in MECP Publication NPC-300. NPC-300 revokes and replaces the previous noise assessment guideline, Publication LU-131 and Publication NPC-205, which was previously used for assessing noise impacts as part of Certificates of Approval / Environmental Compliance Approvals granted by the MECP for industries.

The new guideline sets out noise limits for two main types of noise sources:

- Non-impulsive, "continuous" noise sources such as ventilation fans, mechanical equipment, and vehicles while moving within the property boundary of an industry. Continuous noise is measured using 1-hour average sound exposures (Energy Equivalent Sound Level [Leq] [1-hr] values), in Decibels (A-weighted) (dBA); and
- Impulsive noise, which is a "banging" type noise characterized by rapid rise time and decay. Impulsive noise is measured using a logarithmic mean (average) level (L_{LM}) of the impulses in a one-hour period, in Decibels (A-weighted), Impulsive (dBAI).

Furthermore, the guideline requires an assessment at, and provides separate guideline limits for:

- Outdoor points of reception (e.g., back yards, communal outdoor amenity areas); and
- Façade points of reception such as the plane of windows on the outdoor façade which connect onto noise sensitive spaces, such as living rooms, dens, eat-in kitchens, dining rooms and bedrooms.

The applicable noise limits at a point of reception are the higher of:

- The existing ambient sound level due to road traffic, or
- The exclusion limits set out in the guideline.

The following tables set out the exclusion limits from the guideline.

Table C: NPC-300 Exclusion Limits for Non-Impulsive Sounds (Leg (1-hr), dBA)

Time of Day	Class	s 1 Area		
	Plane of Windows of Noise Sensitive Spaces	Outdoor Points of Reception		
7 am to 7 pm	50	50		
7 pm to 11 pm	50	50		
11 pm to 7 am	45	n/a		



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Table D: NPC-300 Exclusion Limits for Impulsive Sounds (L_{LLM}, dBAI)

Time of Day	No. of Impulses in a 1-	Class 1 Area			
	hour Period	Plane of Windows of Noise Sensitive Spaces	Outdoor Points of Reception		
7 am to 11 pm	9 or more	50	50		
	7 to 8	55	55		
	5 to 6	60	60		
	4	65	65		
	3	70	70		
	2	75	75		
	1	80	80		
11 pm to 7 am	9 or more	45	n/a		
	7 to 8	50	n/a		
	5 to 6	55	n/a		
	4	60	n/a		
	3	65	n/a		
	2	70	n/a		
	1	75	n/a		

Notes: n/a - Not Applicable. Outdoor points of reception are not considered to be noise sensitive during the overnight period.

The applicable guideline limits for infrequent events such as emergency generator set testing are +5 decibels (dB) higher than the values in Table C and are evaluated separately from other noise sources.

4.1.2 Application of the NPC-300 Guidelines

The stationary noise guidelines apply only to residential land uses and to noise-sensitive commercial and institutional uses, as defined in NPC-300 (e.g., schools, daycares, hotels). For the Project, the stationary noise guidelines only apply to the residential near the development, including:

- Individual residences; and
- Outdoor amenity area associated with the residences.

All of the above have been considered as noise-sensitive points of reception in the analysis.

The acoustic environment surrounding the proposed development is considered a Class 1 area, as roadway noise and existing commercial activities are expected to be audible during all times of the day and night.



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5.0 Points of Reception

Noise-sensitive receptors with the potential to be impacted by the proposed development are the residential residences located along Heart Lake Road and Bonnielgen Farm Boulevard. SLR conducted a site visit to the proposed facility on December 31, 2024 to identify the surrounding sensitive receptors.

Modelled receptor locations include windows along all building façades. As a conservative assessment of noise impacts, all windows were assumed to be located in a noise-sensitive space (i.e. a living/dining room or bedroom). Unless otherwise noted, the upper floor window locations are considered the "worst-case" for noise impacts. The floors/façade without windows were excluded from the study.

Table E summarizes the points of reception (PORs) included in this assessment. The context plan in Figure 3 also shows the location of each POR with respect to the development.

Table E: Worst-Case Point of Reception Summary

ID	Address	Description	Modelled Receptor Height (metres [m])
POR 01-08	149-200 Bonnielgen Farm Boulevard	2-Storey Residence	4.5
POR 09	12304 Heart Lake Road	2-Storey Residence	4.5
POR 10	12405 Heart Lake Road	1-Storey Residence	1.5
POR 11	12423 Heart Lake Road	2-Storey Residence	4.5
POR 12	12435 Heart Lake Road	2-Storey Residence	4.5
POR 13	12600 Heart Lake Road	1-Storey Residence	1.5
POR 14	12611 Heart Lake Road	2-Storey Residence	4.5
POR 15	12612 Heart Lake Road	2-Storey Residence	4.5
POR 16	12632 Heart Lake Road	2-Storey Residence	4.5
POR 17	12785 Heart Lake Road	2-Storey Residence	4.5
POR 18	12799 Heart Lake Road	2-Storey Residence	4.5
POR 19	12830 Heart Lake Road	1-Storey Residence	1.5

The local area surrounding the project is being changed more towards industrial/commercial uses. The surrounding existing noise sensitive land uses may change to become industrial commercial in the near future. This study should be updated, if any of the surrounding land uses are converted to be non-noise sensitive.

6.0 Stationary Noise Impacts

6.1 Stationary Noise Sources

An investigation of "dry storage" facilities, where refrigeration "reefer" trucks are not required, has been completed. The location of the modelled stationary noise sources can be seen in Figures 4a, 4b, and 4c.



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Traffic Counts for moving trucks were provided by Lea Consulting the traffic consultant for the proposed facility. Data used in the assessment can be found in Appendix B.

6.1.1.1 Non-Impulsive "Continuous" Noise Sources

The following non-impulsive "continuous" noise sources have been modelled:

- Office heating ventilation and air conditioning (HVAC) (x4);
- Rooftop make-up air (MUA)s (x15);
- Rooftop Exhaust Fans (x23);
- Emergency Generator (x4);
- Idling Trucks at Entrance and Loading Bays (x40); and
- Moving Trucks (Day: 27 Trucks; Evening: 27 Trucks; Night: 15 Trucks). Trucks will not
 enter/exit through the northern most drive-way (closest to Building A) or via Larson Peak
 Road, and will be limited to the other drive-ways off Heart Lake Road.

6.1.1.2 Impulsive Noise Sources

Impulsive noise can occur from truck tractor trailers coupling and uncoupling at loading docks, and from forklifts loading the parked trucks, while travelling over the loading dock plates. Under the Publication NPC-300 noise guidelines the log-average of both of these types of impulses are assessed together versus the applicable noise guideline (L_{LM} measured in dBAI). For modelling purposes, the multiple types of impulses were combined to obtain an overall impulsive noise sound power level of 108 dBAI, presenting two coupling/uncoupling impulses, and 20 forklift impulses for loading and unloading trailers. The impulse noise were modelled as line sources, distributing the sound emission along the loading dock areas.

6.2 Stationary Noise Modelling

Noise impacts from stationary sources were modelled using Cadna/A, a software implementation of the internationally recognized ISO-9613-2 (1996) environmental noise propagation algorithms. Cadna/A / ISO-9613 is the preferred noise model of the MECP. The ISO-9613 equations account for:

- Source to receiver geometry;
- Distance attenuation;
- Atmospheric absorption;
- Reflections off of the ground and ground absorption:
- Reflections off of vertical walls; and
- Screening effects of buildings, terrain, and purpose-built noise barriers (noise walls, berms, etc.).

One (1) order of reflection were considered to account for effects from the proposed development and surrounding buildings. As described in ISO 9613-2, ground factor values that represent the effects of ground absorption on sound levels range between 0 and 1. A global ground absorption factor of G = 0.3 (mostly reflective) was assumed.



Changes in ground elevation for the surrounding area were included in the modelling using topography from the Ontario Digital Terrain Model.

Sound level for data for mechanical equipment, trucking, and impulsive noise were based on SLR's database. Actual sound levels for facility equipment should be included and used in future designs.

Sound levels were predicted at residential building facades (at a worst-case first-floor or second floor window) and at the worst-case outdoor point of reception (located on the property, within 30 m of the house, at the location with the greatest noise level from facility operations, and at a height of 1.5 m above grade).

6.3 Required Noise Mitigation Measures

Impacts from noise were predicted for each of the two scenarios outlined above at the surrounding noise sensitive receptors outlined in Table E. Noise mitigation measures were investigated to ensure that the applicable Publication NPC-300, Class 1 Area noise guideline limits are met.

The following noise mitigation measures are required:

- 1) Noise barriers are required at Buildings A, B, and D, as shown in Figure 5.
- 2) Emergency generators must at a minimum be fitted with industrial grade silencers.

Noise barriers can be constructed using noise walls, earthen berms, or a combination of the two. Where noise walls are used, the walls should have a minimum face density (mass per unit area) of 20 kilograms per square metre (kg/m²) and should be free of gaps and cracks. Any openings at the bottom of the barrier which may be required for drainage should be small (less than 25 mm high) and localized (not continuous along the bottom of the wall). The wall should be designed to withstand any wind loads. There are a number of commercial products and designs available which meet these requirements, including walls made of wood.

As the application advances through the OPA/ZBA application, the overall site plan may change which may result in acoustical mitigation recommendations being revised and reported on by the Acoustical Consultant. Additionally, when available, detailed mechanical information will be factored into the analysis. At a minimum, revised acoustical analysis will be required through Site Plan Application (SPA) and at the building permit stage, as required by the Town of Caledon.



6.4 Predicted Mitigated Stationary Noise Levels

6.4.1 Normal Operations

Mitigated sound levels from normal operations at all buildings are presented in Table F below. Sound levels from emergency generator set testing are presented in Table G.

Table F: Predicted Sound Levels – Non-Impulsive Sources, Normal Operations – Mitigated

Receptor		Façade Wind	dows	Outdo	or Amenity	Meets
	Day	Evening	Night	Day	Evening	Class 1 Limits?
POR 01 Bonnieglen Farm Blvd	43	43	43	41	41	Yes
POR 02 Bonnieglen Farm Blvd	42	42	42	40	40	Yes
POR 03 Bonnieglen Farm Blvd	42	42	42	42	42	Yes
POR 04 Bonnieglen Farm Blvd	41	41	41	41	41	Yes
POR 05 Bonnieglen Farm Blvd	43	43	42	43	43	Yes
POR 06 Bonnieglen Farm Blvd	43	43	43	44	44	Yes
POR 07 Bonnieglen Farm Blvd	39	39	39	38	38	Yes
POR 08 Bonnieglen Farm Blvd	41	41	40	41	41	Yes
POR 09 12304 Heart Lake Road	37	37	36	36	36	Yes
POR 10 12405 Heart Lake Road	43	43	42	38	38	Yes
POR 11 12423 Heart Lake Road	45	45	44	38	38	Yes
POR 12 12435 Heart Lake Road	45	45	44	38	38	Yes
POR 13 12600 Heart Lake Road	45	45	43	45	45	Yes
POR 14 12611 Heart Lake Road	45	45	43	41	41	Yes
POR 15 12612 Heart Lake Road	47	47	45	43	43	Yes
POR 16 12632 Heart Lake Road	45	45	44	43	43	Yes
POR 17 12785 Heart Lake Road	34	34	34	32	32	Yes
POR 18 12799 Heart Lake Road	33	33	33	29	29	Yes
POR 19 12830 Heart Lake Road	33	33	32	32	32	Yes
Notes:	I	L	1		<u> </u>	I.

Notes:

All sound levels are Leq (1hr) values in dBA.



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Table G: Predicted Sound Levels - Generator Set Testing - Mitigated

Receptor	Fa	açade Wind	lows	Outdo	Meets	
	Day	Evening	Night	Day	Evening	Class 1 Limits?
POR 01 Bonnieglen Farm Blvd	46	n/a	n/a	46	n/a	Yes
POR 02 Bonnieglen Farm Blvd	53	n/a	n/a	54	n/a	Yes
POR 03 Bonnieglen Farm Blvd	50	n/a	n/a	51	n/a	Yes
POR 04 Bonnieglen Farm Blvd	52	n/a	n/a	52	n/a	Yes
POR 05 Bonnieglen Farm Blvd	51	n/a	n/a	52	n/a	Yes
POR 06 Bonnieglen Farm Blvd	51	n/a	n/a	49	n/a	Yes
POR 07 Bonnieglen Farm Blvd	44	n/a	n/a	46	n/a	Yes
POR 08 Bonnieglen Farm Blvd	41	n/a	n/a	41	n/a	Yes
POR 09 12304 Heart Lake Road	30	n/a	n/a	28	n/a	Yes
POR 10 12405 Heart Lake Road	30	n/a	n/a	30	n/a	Yes
POR 11 12423 Heart Lake Road	32	n/a	n/a	30	n/a	Yes
POR 12 12435 Heart Lake Road	35	n/a	n/a	28	n/a	Yes
POR 13 12600 Heart Lake Road	33	n/a	n/a	31	n/a	Yes
POR 14 12611 Heart Lake Road	39	n/a	n/a	36	n/a	Yes
POR 15 12612 Heart Lake Road	43	n/a	n/a	36	n/a	Yes
POR 16 12632 Heart Lake Road	47	n/a	n/a	36	n/a	Yes
POR 17 12785 Heart Lake Road	28	n/a	n/a	28	n/a	Yes
POR 18 12799 Heart Lake Road	30	n/a	n/a	25	n/a	Yes
POR 19 12830 Heart Lake Road	27	n/a	n/a	27	n/a	Yes
		•	•	•	•	•

Notes:

All sound levels are Leq (1hr) values in dBA.

n/a – Not applicable. Assumes generator sets are tested during daytime hours.



6.4.2 Impulsive Noise

Mitigated impacts from impulsive noise from tractor-trailer coupling and uncoupling and from loading/ unlading activities are presented in Table H below.

Table H: Predicted Sound Levels - Impulsive Sources - Mitigated

Receptor	Façade Windows	Outdoor Amenity	Meets Class 1
	Day/ Evening/ Night	Day/ Evening	Limits?
POR 01 Bonnieglen Farm Blvd	43	40	Yes
POR 02 Bonnieglen Farm Blvd	43	40	Yes
POR 03 Bonnieglen Farm Blvd	44	45	Yes
POR 04 Bonnieglen Farm Blvd	39	39	Yes
POR 05 Bonnieglen Farm Blvd	43	44	Yes
POR 06 Bonnieglen Farm Blvd	45	46	Yes
POR 07 Bonnieglen Farm Blvd	31	30	Yes
POR 08 Bonnieglen Farm Blvd	43	43	Yes
POR 09 12304 Heart Lake Road	40	39	Yes
POR 10 12405 Heart Lake Road	44	35	Yes
POR 11 12423 Heart Lake Road	44	28	Yes
POR 12 12435 Heart Lake Road	38	36	Yes
POR 13 12600 Heart Lake Road	39	38	Yes
POR 14 12611 Heart Lake Road	43	40	Yes
POR 15 12612 Heart Lake Road	43	39	Yes
POR 16 12632 Heart Lake Road	45	41	Yes
POR 17 12785 Heart Lake Road	26	26	Yes
POR 18 12799 Heart Lake Road	26	19	Yes
POR 19 12830 Heart Lake Road	24	24	Yes
Nistana	•	•	•

Notes:

All sound levels are L_{LM} values in dBAI.

Frequent impulses assumed.



7.0

Vibration Assessment

The proposed development is not anticipated to contain any significant industrial vibration sources, such as large stamping presses or forges. Under applicable MECP guidelines, a detailed vibration assessment is not required. Adverse impacts from industrial vibration from the proposed warehouse operations is not anticipated.

8.0 Conclusions and Recommendations

A compatibility assessment has been completed, examining the potential for noise and vibration impacts from the proposed development project and the effect on its surroundings. Based on the results of our studies:

- With the inclusion of the following noise mitigation measures, adverse noise impacts from the proposed development (stationary sources) are not anticipated from the proposed industrial development.
 - 1) Noise barriers are required for Buildings A, B, and D, as shown in Figure 5.
 - 2) Emergency generators must at a minimum be fitted with industrial grade silencers.
- Adverse vibration impacts from the proposed development are not anticipated from the proposed residential development.
- The requirements of MECP Guideline D-6 and Publication NPC-300 are met.
- As the application advances through the OPA/ZBA application, the overall site plan may
 change which may result in acoustical mitigation recommendations being revised and
 reported on by the Acoustical Consultant. Additionally, when available, detailed
 mechanical information will be factored into the analysis. At a minimum, revised
 acoustical analysis will be required through Site Plan Application (SPA) and at the
 building permit stage, as required by the Town of Caledon

9.0 Closure

Sincerely,

SLR Consulting (Canada) Ltd.

Colin Jakubec, E.I.T Acoustical Consultant **Aaron K. Haniff, P.Eng.**Principal, Acoustical Engineer



October 14, 2025

10.0 References

- International Organization for Standardization, ISO 9613-2: Acoustics Attenuation of Sound During Propagation Outdoors Part 2: General Method of Calculations, Geneva, Switzerland, 1996.
- Ontario Ministry of the Environment, Conservation and Parks (MECP), Publication NPC-300: Environmental Noise Guideline, Stationary and Transportation Sources Approval and Planning.
- Ontario Ministry of the Environment, Conservation and Parks (MECP, 1995), Guideline D-6: Compatibility Between Industrial Facilities and Sensitive Land Uses.
- Ontario Ministry of the Environment, Conservation and Parks (MECP), 1989, ORNAMENT Ontario Road Noise Analysis Method for Environment and Transportation Technical Document.
- Ontario Ministry of the Environment, Conservation and Parks, 1996, STAMSON v5.04: Road, Rail and Rapid Transit Noise Prediction Model





Figures

Environmental Noise and Vibration Study

12506 & 12698 Heart Lake Road, Caledon, Ontario

Tribal Partners Canada Inc. and TDMSI

SLR Project No.: 241.031852.00001

October 14, 2025





12506 & 12698 HEART LAKE ROAD - CALEDON, ONTARIO

SITE AND CONTEXT PLAN

True North



Scale:		1:15,000	METRES
Date:	Oct 2025	Rev 0.0	Figure No





12506 & 12698 HEART LAKE ROAD - CALEDON, ONTARIO

MECP GUIDELINE D-6 SEPARATION DISTANCES

True North

Scale:

1:8,000

METRES

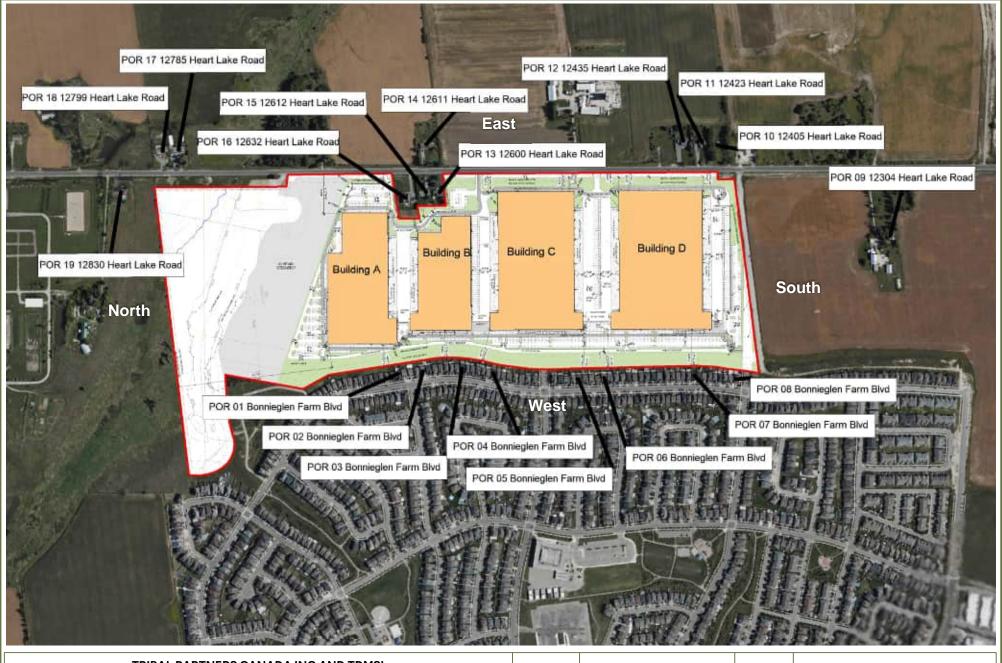
Date:

Oct 2025 Rev 0.0 Figure No.

Project No. 241.031852.00001

2





12506 & 12698 HEART LAKE ROAD - CALEDON, ONTARIO

POINTS OF RECEPTION

True North

orth Scale:

1:8,000

METRES

Date:

Oct 2025 Rev 0.0

Figure No.

Project No. 241.031852.00001

浆SLR



12506 & 12698 HEART LAKE ROAD - CALEDON, ONTARIO

STATIONARY SOURCE LOCATIONS - NON-IMPULSIVE SOURCES

True North



Scale:		1:4,500	METRES				
Date:	Oct 2025	Rev 0.0	Figure No.				

4a





12506 & 12698 HEART LAKE ROAD - CALEDON, ONTARIO

STATIONARY SOURCE LOCATIONS - NON-IMPULSIVE EMERGENCY SOURCES

True North

orth Scale:

1:4,500

METRES

Date:

Oct 2025 Rev 0.0

.0 Figure No.

Project No. 241.031852.00001

4b





12506 & 12698 HEART LAKE ROAD - CALEDON, ONTARIO

STATIONARY SOURCE LOCATIONS - IMPULSIVE SOURCES

True North

Scale:

1:4,500

METRES

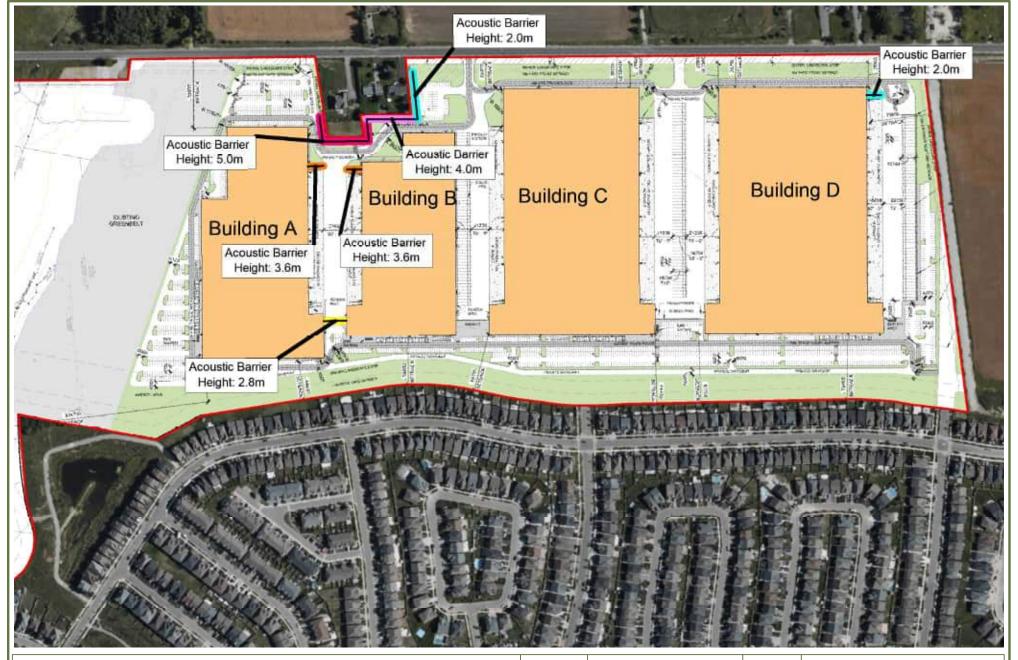
Date:

Oct 2025 Rev 0.0

Figure No.

Project No. 241.031852.00001

浆SLR 4c



12506 & 12698 HEART LAKE ROAD - CALEDON, ONTARIO

REQUIRED NOISE BARRIER LOCATIONS - DRY STORAGE OPERATIONS

True North

 \geqslant

Scale: 1:4,500 METRES

Figure No.

5

Date: Oct 2025 Rev 0.0





Appendix A Development Drawings

Environmental Noise and Vibration Study

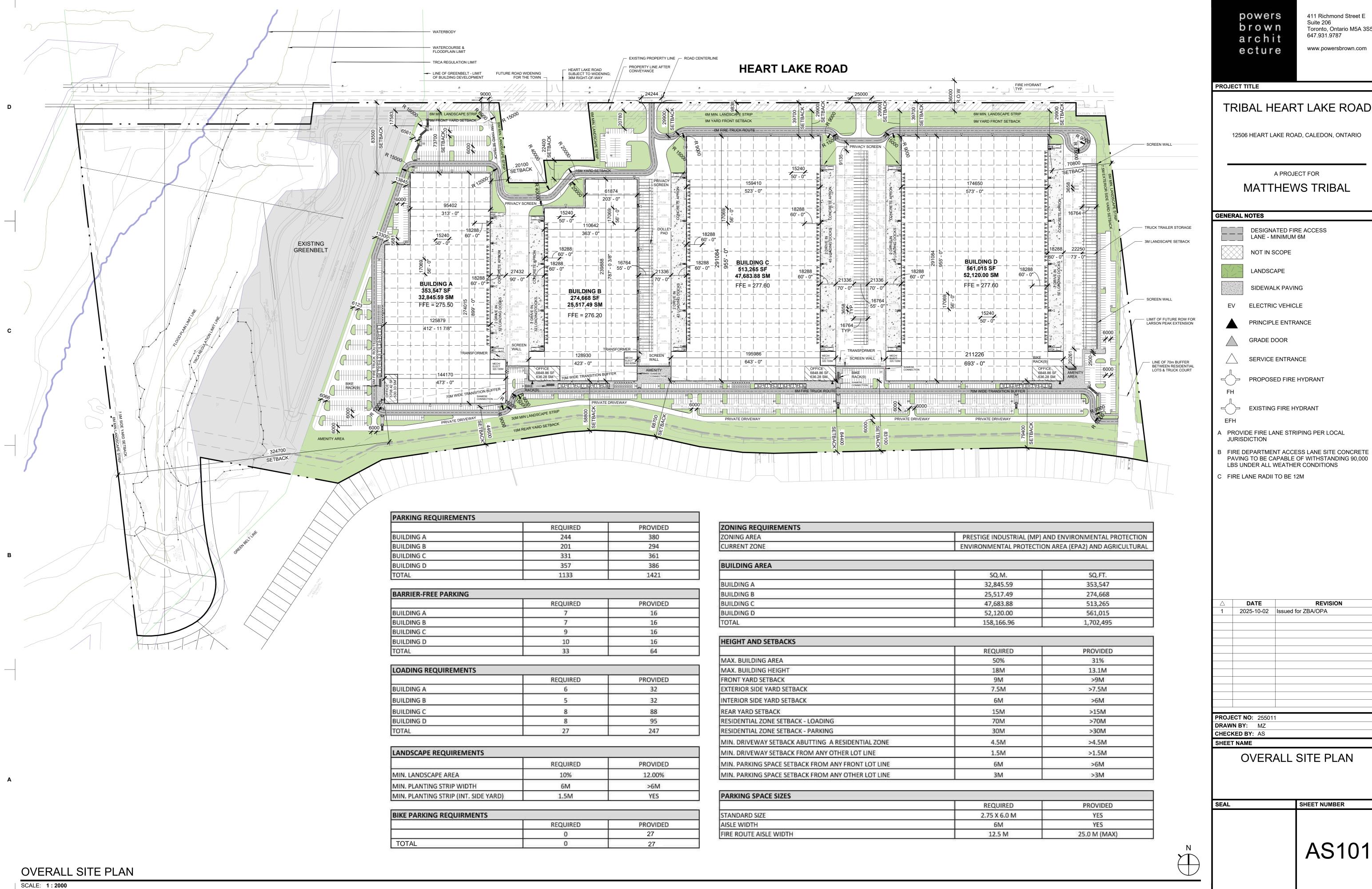
12506 & 12698 Heart Lake Road, Caledon, Ontario

Tribal Partners Canada Inc. and TDMSI

SLR Project No.: 241.031852.00001

October 14, 2025





411 Richmond Street E Suite 206 Toronto, Ontario M5A 3S5 647.931.9787

12506 HEART LAKE ROAD, CALEDON, ONTARIO

ſ	MATTHEWS TRIBAL
GENERAL	NOTES
	DESIGNATED FIRE ACCESS LANE - MINIMUM 6M
	NOT IN SCOPE
	LANDSCAPE
	SIDEWALK PAVING
EV	ELECTRIC VEHICLE
	PRINCIPLE ENTRANCE
	GRADE DOOR
\triangle	SERVICE ENTRANCE
	PROPOSED FIRE HYDRANT
FH EFH	EXISTING FIRE HYDRANT
	DE FIRE LANE STRIPING PER LOCAL DICTION
PAVIN	EPARTMENT ACCESS LANE SITE CONCRETE G TO BE CAPABLE OF WITHSTANDING 90,000 NDER ALL WEATHER CONDITIONS
C FIRE L	ANE RADII TO BE 12M

REVISION 2025-10-02 Issued for ZBA/OPA

SHEET NUMBER



Appendix B Noise Source Data

Environmental Noise and Vibration Study

12506 & 12698 Heart Lake Road, Caledon, Ontario

Tribal Partners Canada Inc. and TDMSI

SLR Project No.: 241.031852.00001

October 14, 2025



les	0.1	u lin	D 11 D14		I	1		lo	.1	1	la			In		luo	Ie	D	lu.ca.		0		
Name	Sel.	M. ID	Result. PW Day	L Evening	Lw / Li Night Type	Value	norm.	Correction	n Evening	Night	Sound Redu	action Area	Attenuatio	Operating Time Day Spe		KU	Freq.	Direct.	Height		Coordinate v	S 7	
			(dBA)	(dBA)	(dBA)	vatue	dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min) (mir		(dB)	(Hz)		(m)		(m)	(m) (r	n)
Office HVAC Unit 01		SS A	85.5	85.5	. ,	HVAC 10		uD(//)	0 (0	0	()		()	, (,	(45)	0	(none)	` '	1 g	594620.4		13.19
Office HVAC Unit 02		SS_B	85.5	85.		HVAC_10	on		0 (0	0						0	(none)		1 g	594762.2	4846217	13.19
Office HVAC Unit 03		SS_C	85.5	85.	5 85.5 Lw	HVAC_10	on	-	0 (0	0						0	(none)	1	1 g	594996.3	4845987	14.72
Office HVAC Unit 04		SS_D	85.5	85.	5 85.5 Lw	HVAC_10	on	-	0 (0	0						0	(none)		1 g	595188.3	4845797	14.72
Emergency Generator		~ EMG_A	105.5	105.		Egen_Exha	iust	-	0 (0	0		Silex_JI	60	0	0	0	(none)		2 g	594728.9		14.19
Emergency Generator		~ EMG_B	105.5	105.		Egen_Exha		- 1	0 (0		Silex_JI	60	0	0	0	(none)		2 g	594848.4		14.19
Emergency Generator		~ EMG_C	105.5	105.		Egen_Exha		- 1	0 (0		Silex_JI	60	0	0	0	(none)		2 g	595016.3		15.72
Emergency Generator		~ EMG_D	105.5	105.		Egen_Exha	iust	-	0 (0		Silex_JI	60	0	0	0	(none)		2 g	595070.2		15.72
Makeup Air Unit 01		SS_A	75.8				_Casing++GEN_MUA_Inlet	-	0 (-	0						0	(none)		1 g		4846298	13.19
Makeup Air Unit 02		SS_A	75.8				_Casing++GEN_MUA_Inlet	-	0 (_	0						0	(none)		l g	594761.8		13.19
Makeup Air Unit 03 Makeup Air Unit 04		SS_A SS_A	75.8 75.8	75.i			_Casing++GEN_MUA_Inlet _Casing++GEN_MUA_Inlet		0 (0						0	(none) (none)		lg lg	594811.6 594843.9	4846395 4846431	13.19 13.19
Makeup Air Unit 05		SS_A SS B	75.8	75.4			_Casing++GEN_MUA_Inlet		0 (-	0						0	(none)		-	594843.9		13.19
Makeup Air Unit 06		SS_B	75.8	75.4			_Casing++GEN_MUA_Inlet		0 (0						0	(none)		lg lg	594911.6		13.19
Makeup Air Unit 07		SS_B	75.8	75.4			_Casing++GEN_MUA_Inlet		0 0	-	0						n	(none)		l g	594818.3		13.19
Makeup Air Unit 08		SS C	75.8				Casing++GEN MUA Inlet		0 (0						0	(none)		l g	595083.1	4846261	14.72
Makeup Air Unit 09		SS_C	75.8				_Casing++GEN_MUA_Inlet		0 (0						0	(none)		l g	595034.5		14.72
Makeup Air Unit 10		SS_C	75.8			GEN_MUA	_Casing++GEN_MUA_Inlet		0 (0	0						0	(none)		1 g	594988		14.72
Makeup Air Unit 11		SS_C	75.8	75.8	8 75.8 Lw		_Casing++GEN_MUA_Inlet		0 (0	0						0	(none)	1	1 g	594938.3	4846117	14.72
Makeup Air Unit 12		SS_D	75.8	75.			_Casing++GEN_MUA_Inlet		0 (0	0						0	(none)	1	1 g	595350.4		14.72
Makeup Air Unit 13		SS_D	75.8	75.8	8 75.8 Lw		_Casing++GEN_MUA_Inlet		0 (0	0						0	(none)	1	l g	595305.1	4845949	14.72
Makeup Air Unit 14		SS_D	75.8	75.			_Casing++GEN_MUA_Inlet		0 (-	0						0	(none)		1 g	595256.3		14.72
Makeup Air Unit 15		SS_D	75.8				_Casing++GEN_MUA_Inlet	-	0 (-	0						0	(none)		1 g	595205.4		14.72
Exhaust Fan 01		SS_A	90			Gen_ExFa		- 1	0 (0						0	(none)		1 g	594812.8		13.19
Exhaust Fan 02		SS_A	90	_		Gen_ExFa		1	0 (0		1				0	(none)		1 g	594778.6		13.19
Exhaust Fan 03		SS_A	90			Gen_ExFa		-	0 (0						0	(none)		1 g	594732.2	4846378	13.19
Exhaust Fan 04 Exhaust Fan 05		SS_A SS_B	90		0 90 Lw 0 90 Lw	Gen_ExFa Gen_ExFa			0 (0		1	 			0	(none)		l g l g	594682.2 594851.3	4846329 4846202	13.19 13.19
				_					0 0	-	-						0	. ,					
Exhaust Fan 06 Exhaust Fan 07		SS_B SS_B	90			Gen_ExFa	-		-	-	0						0	(none)		l g l g	594898.5		13.19
Exhaust Fan 08		SS_C	90			Gen ExFa			0 (-	0						0	(none)		l g	595115.1	4846229	14.72
Exhaust Fan 09		SS_C	90	9		Gen ExFa	-		0 (0						0	(none)		l g	595067.3	4846180	14.72
Exhaust Fan 10		SS C	90	9		Gen ExFa			0 0		0						n	(none)		1 g	595017.9		14.72
Exhaust Fan 11		SS_C	90			Gen_ExFa			0 (-	0						0	(none)		l g	594972.3		14.72
Exhaust Fan 12		SS C	90			Gen ExFa			0 0	-	0						0	(none)		l g	595003.8		14.72
Exhaust Fan 13		SS_C	90	9	0 90 Lw	Gen_ExFa	 n_M		0 (0	0						0	(none)		1 g	595051.3	4846101	14.72
Exhaust Fan 14		SS_C	90	9	0 90 Lw	Gen_ExFa	n_M	-	0 (0	0						0	(none)		1 g	595099.6	4846150	14.72
Exhaust Fan 15		SS_C	90	9	0 90 Lw	Gen_ExFa	n_M		0 (0	0						0	(none)	1	l g	595148.5	4846199	14.72
Exhaust Fan 16		SS_D	90			Gen_ExFa	n_M	- 1	0 (0	0						0	(none)	1	1 g	595319.4		14.72
Exhaust Fan 17		SS_D	90			Gen_ExFa	-	- 1	0 (-	0						0	(none)		1 g	595269.8	4845980	14.72
Exhaust Fan 18		SS_D	90			Gen_ExFa		- 1	0 (0						0	(none)		1 g	595221.4	4845933	14.72
Exhaust Fan 19		SS_D	90			Gen_ExFa		- 1	0 (-	0						0	(none)		1 g	595173.1		14.72
Exhaust Fan 20		SS_D	90	91		Gen_ExFa		-	0 (-	0						0	(none)		1 g	595138.9		14.72
Exhaust Fan 21		SS_D	90	_		Gen_ExFa		-	0 (_	0						0	(none)		l g	595189.4	4845965 4846015	14.72
Exhaust Fan 22 Exhaust Fan 23		SS_D SS_D	90	9		Gen_ExFa Gen_ExFa			0 (0						0	(none) (none)		lg lg	595237.2 595286.3	4846015 4846062	14.72
Idling Trucks 01 at Entrance		SS B	93.1			HeavyTru			0 (0			13	13	9	0	(none)	2.5		595257.5		2.5
Idling Trucks 02 at Entrance		SS_B	93.1			HeavyTru			0 0		0			14	14	9	0	(none)	2.5		595081		2.5
Idling Trucks 03		SS_B	93.1			HeavyTru			0 (-	0			5	5	5	0	(none)	2.5	_	594759.5		2.5
Idling Trucks 04		SS_B	93.1	93.		HeavyTru			0 (0			5	5	5	0	(none)	2.5		594785.9	4846307	2.5
Idling Trucks 05		SS_B	93.1	93.		HeavyTru		- 1	0 (0	0			5	5	5	0	(none)	2.5		594811.8	4846334	2.5
Idling Trucks 06		SS_B	93.1	93.		HeavyTru			0 (0	0			5	5	5	0	(none)	2.5	5 r	594829.4		2.5
Idling Trucks 07		SS_B	93.1	93.	1 93.1 Lw	HeavyTru	kidle	,	0 (0	0			5	5	5	0	(none)	2.5	5 r	594848	4846370	2.5
Idling Trucks 08		SS_B	93.1	93.		HeavyTru		-	0 (0			5	5	5	0	(none)	2.5		594867.6	4040001	2.5
Idling Trucks 09		SS_B	93.1	93.		HeavyTru		-	0 (0			5	5	5	0	(none)	2.5		594848.7		2.5
Idling Trucks 10		SS_B	93.1	93.		HeavyTru			0 (-	0		1	5	5	5	0	(none)	2.5		594829.7	4846313	2.5
Idling Trucks 11		SS_B	93.1	93.		HeavyTru		- 1	,		0		1	5	5	5	0	(none)	2.5		594802.5		2.5
Idling Trucks 12		SS_B	93.1			HeavyTru			0 (0		1	5	5	5	U	(none)	2.5		594777.6		2.5
Idling Trucks 13		SS_B	93.1	93.		HeavyTru		- !	U (-	0			5	5	5	0	(none)	2.5	-	594899.4	4846143	2.5
Idling Trucks 14		SS_B	93.1	93.		HeavyTru			0 0	-	0		1	5	5	5	U	(none)	2.5		594920.2	4846164	2.5
Idling Trucks 15 Idling Trucks 16		SS_B SS_B	93.1 93.1			HeavyTrue			0 (0		1	5	5	5	0	(none)	2.5		594940.5	4846185 4846212	2.5
Idling Trucks 17		SS_B	93.1			HeavyTru			0 (-	0			5	5	5	0	(none)	2.5		594991.3		2.5
Idling Trucks 17		SS B	93.1	93.		HeavyTruc			0 (0			5	5	5	0	(none)	2.5		595007.6		2.5
Idling Trucks 19		SS B	93.1	93.		HeavyTru			0 0		0			5	5	5	n	(none)	2.5		595029.2		2.5
Idling Trucks 20		SS B	93.1	93.		HeavyTru			0 (0			5	5	5	0	(none)	2.5		595172.9		2.5
Idling Trucks 21		SS B	93.1			HeavyTru			0 0	0	0			5	5	5	0	(none)	2.5		595155.3		2.5
Idling Trucks 22		SS_B	93.1			HeavyTru			0 0	-	0		1	5	5	5	0	(none)	2.5		595129.1		2.5
Idling Trucks 23		SS_B	93.1	93.		HeavyTru		-	0 (0	0			5	5	5	0	(none)	2.5	5 r	595106.7	4846072	2.5
Idling Trucks 24		SS_B	93.1	93.	1 93.1 Lw	HeavyTru	kidle	-	0 (0			5	5	5	0	(none)	2.5		595088	4846055	2.5
Idling Trucks 25		SS_B	93.1	93.		HeavyTru	kidle		0 (-	0			5	5	5	0	(none)	2.5		595070.9		2.5
Idling Trucks 26		SS_B	93.1	93.		HeavyTru		-	0 (0			5	5	5	0	(none)	2.5		595047.4		2.5
Idling Trucks 27		SS_B	93.1	93.		HeavyTru		-	0 (-	0			5	5	5	0	(none)	2.5		595086.6	4845967	2.5
Idling Trucks 28		SS_B	93.1	93.		HeavyTru		- 1	0 (0			5	5	5	0	(none)	2.5		595118.7	4845999	2.5
Idling Trucks 29		SS_B	93.1	93.		HeavyTru		-	0 (0			5	5	5	0	(none)	2.5		595149.4		2.5
Idling Trucks 30		SS_B	93.1			HeavyTru			0 (-	0			5	5	5	0	(none)	2.5	-	595176.1		2.5
Idling Trucks 31		SS_B	93.1			HeavyTru		- 1	0 (-	0		1	5	5	5	0	(none)	2.5		595193.5		2.5
Idling Trucks 32		SS_B	93.1	93.		HeavyTru			-		0		1	5	5	5	U	(none)	2.5		595215.6		2.5
Idling Trucks 33		SS_B	93.1	93.	1 93.1 Lw	HeavyTru	ckidle		0 (U	0		1	5	5	5	U	(none)	2.5	r	595385.8	4845967	2.5

1																											
Idling Trucks 34			SS_B	93.1	93.	1 93.:	1 Lw	HeavyTruc	kidle	(0	0					5 5	5	0	(none)	2.	5 r	595361.6	4845942	2.5		
Idling Trucks 35			SS_B	93.1	93.	1 93.:	1 Lw	HeavyTruc	kidle	(0	0					5 5	5	0	(none)	2.	5 r	595339.3	4845919	2.5		
Idling Trucks 36			SS_B	93.1	93.	1 93.:	1 Lw	HeavyTruc	kidle	(0	0					5 5	5	0	(none)	2.	5 r	595324.8	4845904	2.5		
Idling Trucks 37			SS_B	93.1	93.	1 93.:	1 Lw	HeavyTruc	kidle	(0 0	0					5 5	5	0	(none)	2.	5 r	595298.8	4845879	2.5		
Idling Trucks 38			SS_B	93.1	93.	1 93.:	1 Lw	HeavyTruc	kidle	(0 0	0					5 5	5	0	(none)	2.	5 r	595279.7	4845860	2.5		
Idling Trucks 39			SS_B	93.1	93.	1 93.:	1 Lw	HeavyTruc	kidle	(0 0	0					5 5	5	0	(none)	2.	5 r	595265.6	4845846	2.5		
Idling Trucks 40			SS_B	93.1	93.	1 93.:	1 Lw	HeavyTruc	kidle	(0 0	0					5 5	5	0	(none)	2.	5 r	595247.7	4845827	2.5		
Name	M.	ID	Result. PW	/L		Result. PV	VL'		Lw/Li			Correction			Sound Red	uction	Attenuation Oper	ating Time		КО	Freq.	Direct.	Moving Pt. S	3rc			ht
			Day	Evening	Night	Day	Evening	Night	Туре	Value	norm.	Day	Evening	Night	R	Area	Day	Special	Night				Number		S	peed	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)	(min	(min)	(min)	(dB)	(Hz)		Day	Evening	Night (k	m/h)	
Truck Impulses 1	~	IMP	100.2	100.2	100.	2 78.3	3 78.	3 78.3	Lw	Loading	108	-7.8	-7.8	-7.8)	(none)					1.5
Truck Impulses 2	~	IMP	100.2	100.2	100.	2 78.4	4 78.	4 78.4	Lw	Loading	108	-7.8	-7.8	-7.8						()	(none)					1.5
Truck Impulses 3	~	IMP	100.2	100.2	100.	2 77.:	1 77.	1 77.1	Lw	Loading	108	-7.8	-7.8	-7.8						()	(none)					1.5
Truck Impulses 4	~	IMP	100.2	100.2	100.	2 76.9	76.9	9 76.9	Lw	Loading	108	-7.8	-7.8	-7.8						()	(none)					1.5
Truck Impulses 5	~	IMP	100.2	100.2	100.	2 76.9	76.9	9 76.9	Lw	Loading	108	-7.8	-7.8	-7.8						()	(none)					1.5
Truck Impulses 6	~	IMP	100.2	100.2	100.	2 76.5	76.	5 76.5	Lw	Loading	108	-7.8	-7.8	-7.8						()	(none)					1.5
Trucks Building A+B from Center D		SS	97.2	97.2	9	5 67.	7 67.	7 65.5	PWL-Pt	HeavyTruc	ckPassby	0	0	0						()	(none)	10	10	6	15	2.5
Trucks Building C from Center Dwy		SS	91.8	91.8	90.	5 63.7	7 63.	7 62.5	PWL-Pt	HeavyTruc	ckPassby	0	0	0						()	(none)	4	4	3	15	2.5
Trucks Building C and D from Sout		SS	94.8	94.8	93.	6 66.8	66.	B 65.5	PWL-Pt	HeavyTruc	ckPassby	0	0	0)	(none)	8	8	6	15	2.5
Trucks Building D from South Dwy		SS	95.3	95.3	93.	1 64.	7 64.	7 62.5	PWL-Pt	HeavyTruc	ckPassby	0	0	0						()	(none)	5	5	3	15	2.5

		Overall		1/3 Oktave Spectrum (dB)											
Name	ID	Α	Type	Weight.	31.5	63	125	250	500	1000	2000	4000	8000	Α	lin
HVAC Unit (10 ton)	HVAC_10ton	85.5	Lw		80	83	84	84	83	81	77	73	67	85.5	90.8
Generic 3500 cfm MUA - Casing	GEN_MUA_Casing	68.2	Lw			72	79	69	67	60	48	34	25	68.2	80.4
Generic 3500 cfm MUA - Inlet	GEN_MUA_Inlet	74.9	Lw			78	79	73	75	69	63	56	45	74.9	83.1
Generic Exhaust Fan- Medium	Gen_ExFan_M	90	Lw			99	99	92	88	82	78	72	66	90	102.6
Heavy Truck - Passby	HeavyTruckPassby	99.5	Lw(c)		98.2	101.4	101.1	96.5	96.3	95.6	91.5	84.1	78	99.5	106.8
Heavy Truck - Idling	HeavyTruckIdle	93.1	Lw(c)		19	93	88	83	90	87	88	82	71	93.1	97.1
Loading Impulse	Loading	70.9	Lw		68.4	68.4	64.9	67.4	66.1	66.2	63.6	61.8	55.9	70.9	75.4
EGen Exhaust	Egen_Exhaust	121.2	Lw(c)	Α		87.8	97.5	105.5	107.3	111.6	116	116	114.5	121.2	122.9

