

TOWN OF CALEDON
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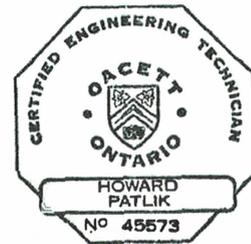
**NOISE IMPACT FEASIBILITY STUDY
TRACTOR TRAILER TRANSPORTATION DEPOT
12363 DIXIE ROAD
TOWN OF CALEDON**

FOR

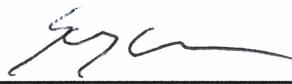
2476998 ONTARIO INC.

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JULY 31, 2023

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1. INTRODUCTION

At the request of 2476998 Ontario Inc., J.E. COULTER ASSOCIATES LIMITED has conducted a preliminary acoustic review of the proposed Transportation Depot to be located at 12363 Dixie Road in Caledon, Ontario (see Appendix A, Figure 1).

The purpose of this preliminary review is to determine the anticipated sound levels generated by the distribution facility at the closest, most sensitive residential dwellings, and to identify and control any potential excess in sound levels above the Ministry of the Environment, Conservation and Parks (MECP) *NPC-300* noise guidelines.

2. DESCRIPTION OF SITE AND SURROUNDING AREA

The proposed development consists of a single industrial building and trucking depot. The proposed facility's operating hours from 0600 to 0000 hours covers both the daytime and nighttime periods. The single-storey industrial building at the southwest part of the site has 2 access doors along the north façade and a single-bay loading area at the east side. The site includes 70 parking spaces, of which 60 are for truck/trailer and truck cabs and 10 are car parking spaces (see Appendix A, Figure 2). This site is not expected to incorporate the use of refrigerated trucks.

The noise sensitive land uses in the vicinity of the proposed distribution centre include existing single-family dwellings to the north. Directly south of this property is Salisbury Garden Supplies at 12321 Dixie Road. For this report, a total of 4 points of reception noted as R1 to R4 were considered (see Appendix A, Figure 3).

3. NOISE CRITERIA

3.1 Non-Impulse Sounds

This study is based on the MECP noise criteria found in *NPC-300*. The MECP noise guideline basically states that the average sound level of the stationary source (impulse noise such as banging from the coupling and decoupling of trucks from the trailers and mechanical equipment) should not exceed the average sound level of the roadway traffic during the same hourly period or the MECP exclusion limit, whichever is higher.

For this site, MECP's minimum noise criteria values have been used because the points of reception (the exterior east façades of the dwellings and rear yards along the east side of Dixie Road) will be equal to or less than MECP's minimum values. The noise criteria used in this study are shown in Table 1, below.

For this study, given the location of the proposed facility, we are basing the criteria on MECP's Class 2 designation: a semi-rural environment. Note that for Class 1, 2 and 3 areas, the plane-of-window limits apply to a window that is assumed to be open.

The minimum sound levels considered by MECP are as follows:

Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00–19:00	50	50	45	60
19:00–23:00	50	50	40	60
23:00–07:00	45	45	40	55

The site must operate within the noise criteria by the use of acoustic barriers placed between the sources and receivers, increased setbacks between the sources and receivers, the use of quieter equipment and/or time restrictions of certain activities. Any combination of these factors can be used. The points of reception, in this worst-case analysis, are taken to be in the plane of an open window at the living room or bedroom windows of the dwellings.

A “stationary noise source” to which the guideline applies is defined in the interpretation section of the MECP guideline as everything on a property, except for construction equipment and “conveyances.” Conveyances are defined as vehicles that move on and off the property carrying goods or people. The time period over which the sound is averaged is 1 hour.

3.2 Impulse Sounds

For impulse sounds generated from activities such as banging from trucks coupling or decoupling, MECP’s criteria is based on the expected number of impulses generated on an hourly basis. According to the proponent, it is expected that typically 1 to 2 coupling/decouplings per hour (maximum) would take place. During the daytime, it has been assumed that 4 to 6 truck coupling/decouplings per hour could take place. At night between the hours of 2300 and 0000, and the hours of 0600 and 0700, the analysis assumed 3 coupling/decouplings per hour.

The noise criteria for impulse noise at the exterior and outdoor amenity areas are provided in Tables 2 and 3, below.

Table 2: Exclusion Limit Values for Impulse Sound Level (L_{im} dBAI) Plane of Window of Noise-Sensitive Spaces (Day/Night)				
Actual Number of Impulses in Period of One-Hour	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
9 or more	50/45	50/45	45/40	60/55
7 to 8	55/50	55/50	50/45	65/60
5 to 6	60/55	60/55	55/50	70/65
4	65/60	65/60	60/55	75/70
3	70/65	70/65	65/60	80/75
2	75/70	75/70	70/65	85/80
1	80/75	80/75	75/70	90/85

Table 3: Exclusion Limit Values for Impulse Sound Level (L_{im} dBAI) Outdoor Points of Reception					
Time of Day	Actual Number of Impulses in Period of One-Hour	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00–23:00	9 or more	50	50	45	55
	7 to 8	55	55	50	60
	5 to 6	60	60	55	65
	4	65	65	60	70
	3	70	70	65	75
	2	75	75	70	80
	1	80	80	75	85

4. POTENTIAL SOUND SOURCES

The sound levels from the activities on the proposed facility were projected to the closest residences along the east side of Dixie Road. The potential sound sources at the proposed facility are as follows.

4.1 Impulsive Sound (Truck Couple/Decoupling)

There are several source of noise in the shunting impulses of tractors hooking onto the trailers in the parking area. In-house data was used from sound level testing recently conducted at a similar type of operation. Truck-trailer coupling generates an average sound power level of 116.7 dB PWLA(I). The MECP criterion is based on the site generating 5 impulses per hour during the daytime and 3 per hour at night.

4.2 Truck Repair (Pneumatic Tools)

The proposed automotive repair facility includes a single-storey building with two repair bay (two access doors) on the north façade, as shown in Appendix A, Figure 3. The main sources of noise would be the pneumatic tools (wrenches) used in each of the repair bays. The pneumatic wrenches sound level (117 dBA PWL) includes an adjustment of +10 dB for its tonality as a quasi-steady impulse sound, as per MECP's guideline.

4.3 Truck Manoeuvring

The main noise source associated with the movement of the trucks is their manoeuvring (marshalling) in the parking area. The analysis assumed that 10 trucks per hour were manoeuvring in the parking area (20 kph).

4.4 Backup Alarm/Beeper

MECP guidelines do not include backup beepers as part of the standard assessment, but they have been assessed to provide a complete understanding of the project potential noise impacts. The loudest warning beepers used by trucks when in reverse gear have a sound power rating of 115 dB PWLA. They are located at the rear of the vehicle, and the effective height is assumed to be 1.0m. Based on field measurements, the maximum amount of time the beeper is operating is approximately 20 seconds.

5.0 PROJECTED IMPULSE SOUND LEVELS

The sound levels were calculated using 3-D modelling software (CadnaA 2023). The model takes into account the site and receiver elevations, ground cover, distances between source and receiver, heights of the source and receiver, and the barrier effect, where applicable.

Four points of reception were considered as follows:

R1: East façade of bungalow (12393 Dixie Road)

R2: Rear yard (12393 Dixie Road)

R3: East façade of bungalow (12423 Dixie Road)

R4: Rear yard (12423 Dixie Road).

5.1 Impulse Noise

Part of the impulse noise is generated when the trucks are coupled and/or decoupled from the trailers. This process generates a single loud bang each time a connection is made. A maximum of 5 trucks per hour can be coupled or decoupled at the proposed site (0700 to 2300 hours).

Table 4, below, summarize the impulse sound levels without any noise control measures in place during the daytime (see Appendix A, Figure 3).

Table 4: Impulse Noise (Unmitigated) Daytime (0700–2300 Hours)			
Receptor Location	Sound Level, No Barrier (dBA)	Daytime Noise Criteria (dB L_{eq}, 1 Hr.)	Noise Excess (dB)
R1 (East Façade)	71	60	11
R2 (Rear yard)	73	60	13
R3 (East Façade)	64	60	4
R4 (Rear yard)	63	60	3

Table 5: Impulse Noise (Unmitigated), Evening (1900–2300) & Nighttime (2300–0700 Hours)			
Receptor Location	Sound Level, No Barrier (dBA)	Nighttime Noise Criteria (dB L_{eq}, 1 Hr.)	Noise Excess (dB)
R1 (East Façade)	71	65	6
R2 (Rear yard)	72	65	7
R3 (East Façade)	63	65	-2
R4 (Rear yard)	64	65	-1

The analysis shows that because of impulse sounds, if unmitigated, the coupling/decoupling of the trucks would create a significant noise impact at the closest points of reception (R1 and R2) during the day. The noise impact ranges from 3 to 13 dB above the daytime criterion. Noise control measures are required to meet MECP's noise criteria.

5.2 Non-Impulsive Sound Sources

The sound levels generated by various sources (excluding impulse types of sound noted above) have been modelled during the time of the operation. At night (2300 to 0000 and 0600 to 0700 hours), the unmitigated sound levels are dominated by the truck repairs and backup beepers.

The potential noise impact is determined by adding up all the sound sources and comparing the overall sound level with MECP's noise criteria at R1 to R4. The following table outlines each source without any barriers in place.

Table 6: Non-Impulsive Noise (Unmitigated), Daytime (0700–1900 Hours)				
Source	Sound Level (dBA)			
	R1	R2	R3	R4
Truck Manoeuvring (10 movements per hour)	46.1	46.6	36.7	36.4
Repair Bays (2)	51.8	49.3	41.9	41.5
Backup Beepers (10)	45.7	49.2	37.1	38.8
Subtotal (Stationary Sources)	54	53	44	44
MECP Guideline (dB L _{eq} , 1 Hr, Daytime)	50	50	50	50
Excess above Daytime Criteria (dB)	4	3	-6	-6

Table 7: Non-Impulsive Noise (Unmitigated), Nighttime (2300–0700 Hours)				
Source	Sound Level (dBA)			
	R1	R2	R3	R4
Truck Manoeuvring (10 movements per hour)	45.7	46.0	36.0	35.7
Repair Bays (2)	53.6	51.1	43.7	43.2
Backup Beepers (10)	51.7	53.5	43.5	45.1
Subtotal (Stationary Sources)	56	56	47	48
MECP Guideline (dB L _{eq} , 1 Hr, Daytime)	45	45	45	45
Excess above Daytime Criteria (dB)	11	11	2	3

Note: Pneumatic tools are assumed to be operated for an equivalent of 5 minutes per hour per bay.

Based on the unmitigated sound levels from the truck movements, backup beepers and repairs, a significant noise impact would be present at R1 and R2. R3 and R4 would experience a low noise impact. Noise control measures are required to satisfy MECP's NPC-300 noise criteria.

6. NOISE CONTROL MEASURES

To meet MECP's noise criteria, a 4.1m high acoustic barrier is proposed to shield the receptors, so that the coupling and decoupling of trailers, truck passbys, beepers, and repairs are sufficiently attenuated. The north acoustic barrier is to be a minimum of 86m long (see Appendix A, Figure 3). The final barrier height may change slightly from those noted in this report once site grades are available.

The proposed screening shown along the south limit of the site does not need to be acoustic as there are no sensitive points of reception to be considered.

With a 4.1m high barrier in place, the following sound levels are expected at R1 to R4:

Table 8: Impulse Noise (Noise Control), Daytime (0700–1900 Hours)			
Receptor Location	Sound Level, With 4.1m Barrier (dBA)	Daytime Noise Criteria (dB L_{eq}, 1 Hr.)	Noise Excess (dB)
R1 (East Façade)	60	60	0
R2 (Rear yard)	60	60	0
R3 (East Façade)	56	60	-4
R4 (Rear yard)	57	60	-3

Table 9: Non Impulse Noise (Noise Control), Daytime (0700–1900 Hours)			
Receptor Location	Sound Level, With 4.1m Barrier (dBA)	Daytime Noise Criteria (dB L_{eq}, 1 Hr.)	Noise Excess (dB)
R1 (East Façade)	42	50	-8
R2 (Rear yard)	42	50	-8
R3 (East Façade)	38	50	-12
R4 (Rear yard)	39	50	-11

Table 10: Non Impulse Noise (Noise Control), Nighttime (2300–0700 Hours)			
Receptor Location	Sound Level, With 4.1m Barrier (dBA)	Daytime Noise Criteria (dB L_{eq}, 1 Hr.)	Noise Excess (dB)
R1 (East Façade)	44	45	-1
R2 (Rear yard)	N/A	N/A	N/A
R3 (East Façade)	38	45	-7
R4 (Rear yard)	N/A	N/A	N/A

With the proposed noise control measures (4.1m high acoustic barrier) in place, MECP's noise criteria for both impulse and non-impulse sounds at R1 to R4 can be met.

6.1 Acoustic Barrier Requirements

All acoustic fences are to be solid and without any gaps or openings along their lengths. The

barriers are designed to at least break line-of-sight (i.e., minimum 5 dB barrier effect between the source and the receiving point). As required by the Ministry, the fence must have a minimum surface density of 20 kg/m² (4 lbs./ft.²). Acoustic fences may be constructed of heavy wood, vinyl-coated metal, or concrete. Where an acoustic fence is situated on top of an earth berm, it must be flush with the top of the berm, with no gaps.

7. CONCLUSION

The analysis found that the proposed truck depot would create, if unmitigated, noise impacts at the existing housing (R1 to R4) to the north. The trailer coupling/decoupling, truck movements, backup beepers, and repairs were found to create a significant noise impact, if unmitigated. An acoustic barrier (4.1m high) is required to control the activities at the proposed truck depot to satisfy MECP's noise criteria.

8. RECOMMENDATIONS

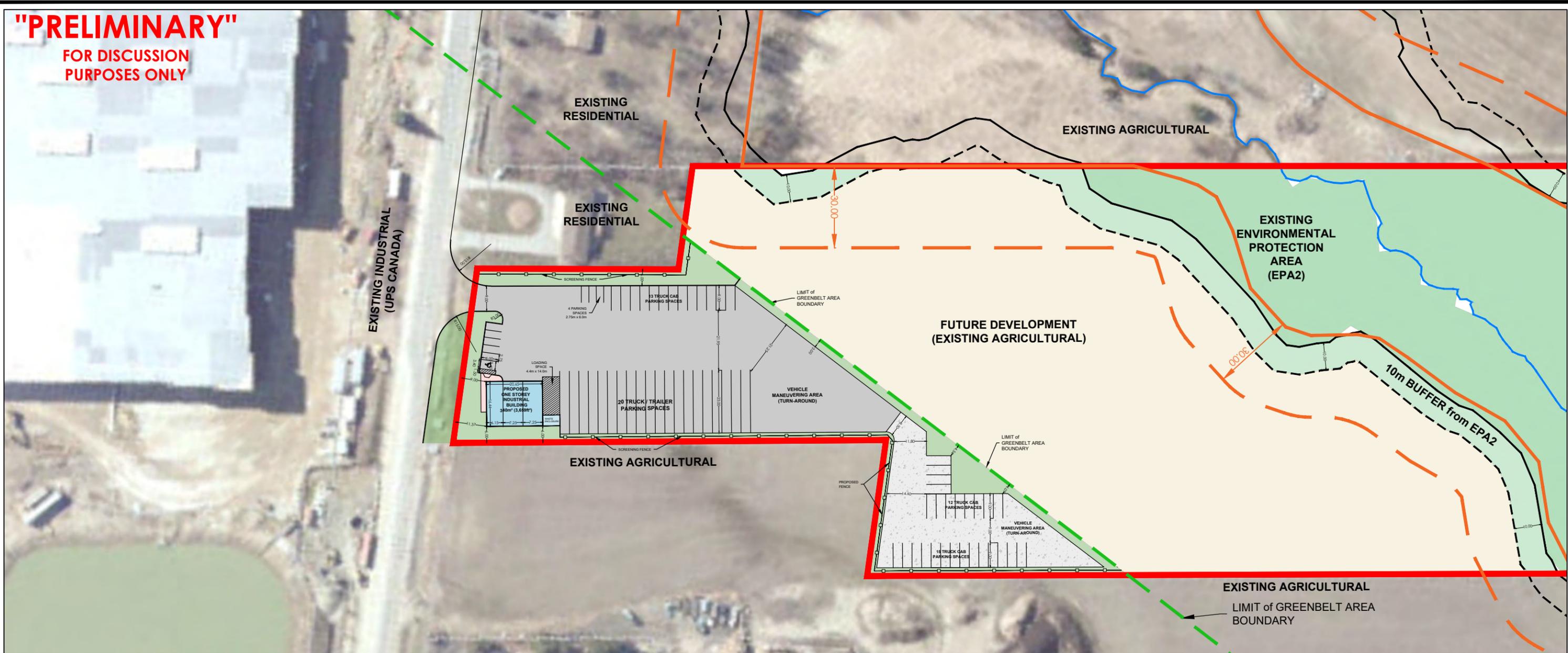
To meet MECP's *NPC-300* noise criteria, the following measures are recommended:

1. A 4.1m high acoustic barrier is proposed to shield the trucks so that the trailer coupling/decoupling and truck movements are sufficiently attenuated along the north side (see Appendix A, Figure 3). The acoustic barrier is to be a minimum of 86m long with a wrap parallel to the rear property line of the closest dwelling (R1).
2. It is recommended that once the site grades are available, the final of-top-barrier elevation be finalized. The ground cover between the site and the housing to the north appears to be relatively flat. The barrier height may change slightly from those noted in this report.
3. Refrigerated trucks ("reefers") are not to be stored on this site.

APPENDIX A: FIGURES

"PRELIMINARY"

FOR DISCUSSION
PURPOSES ONLY



TOTAL SITE AREA:	9.15ha	(22.62ac)
TRANSPORTATION DEPOT:	1.17ha	(2.91ac)
ENVIRONMENTAL PROTECTION AREA (EPA2):	2.07ha	(5.12ac)
10m BUFFER from EPA2:	0.55ha	(1.36ac)
GREENBELT and AGRICULTURAL:	5.36ha	(13.24ac)
TOTAL	9.15ha	(22.62ac)

PROPOSED OFFICE & REPAIR BUILDING	
OFFICE:	100m ² (1,076ft ²)
SERVICE / REPAIR BAYS:	240m ² (2,583ft ²)
GROSS FLOOR AREA:	340m ² (3,659ft ²)

PARKING REQUIRED:	
OFFICE:	4 SPACES
(1 space per 30m² of floor area)	
SERVICE / REPAIR BAYS:	6 SPACES
(3 spaces per bay) (2 bays)	

PARKING PROVIDED:	
AUTOMOBILE :	10 SPACES (1 HC)
TRUCK CAB:	40 SPACES
TRUCK / TRAILER:	20 SPACES
TOTAL:	70 SPACES

**CONCEPTUAL SITE PLAN
PROPOSED TRANSPORTATION DEPOT
'0' DIXIE ROAD
TOWN of CALEDON
REGION of PEEL**

LEGEND

- SUBJECT SITE
- LANDSCAPING
- LIMIT of GREENBELT PLAN AREA BOUNDARY
- ENVIRONMENTAL PROTECTION AREA (EPA2)
- WALKWAY / SIDEWALK
- APPROXIMATE LIMIT of NATURAL FEATURE
- 10m BUFFER from EPA2
- ASPHALT PAVING
- 30m SETBACK from NATURAL FEATURE
- BUILDING
- GRAVEL SURFACE
- PROPOSED FENCE

P.N.: 20.2744	Date: April 21, 2023	CP1.2
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FIGURE 1

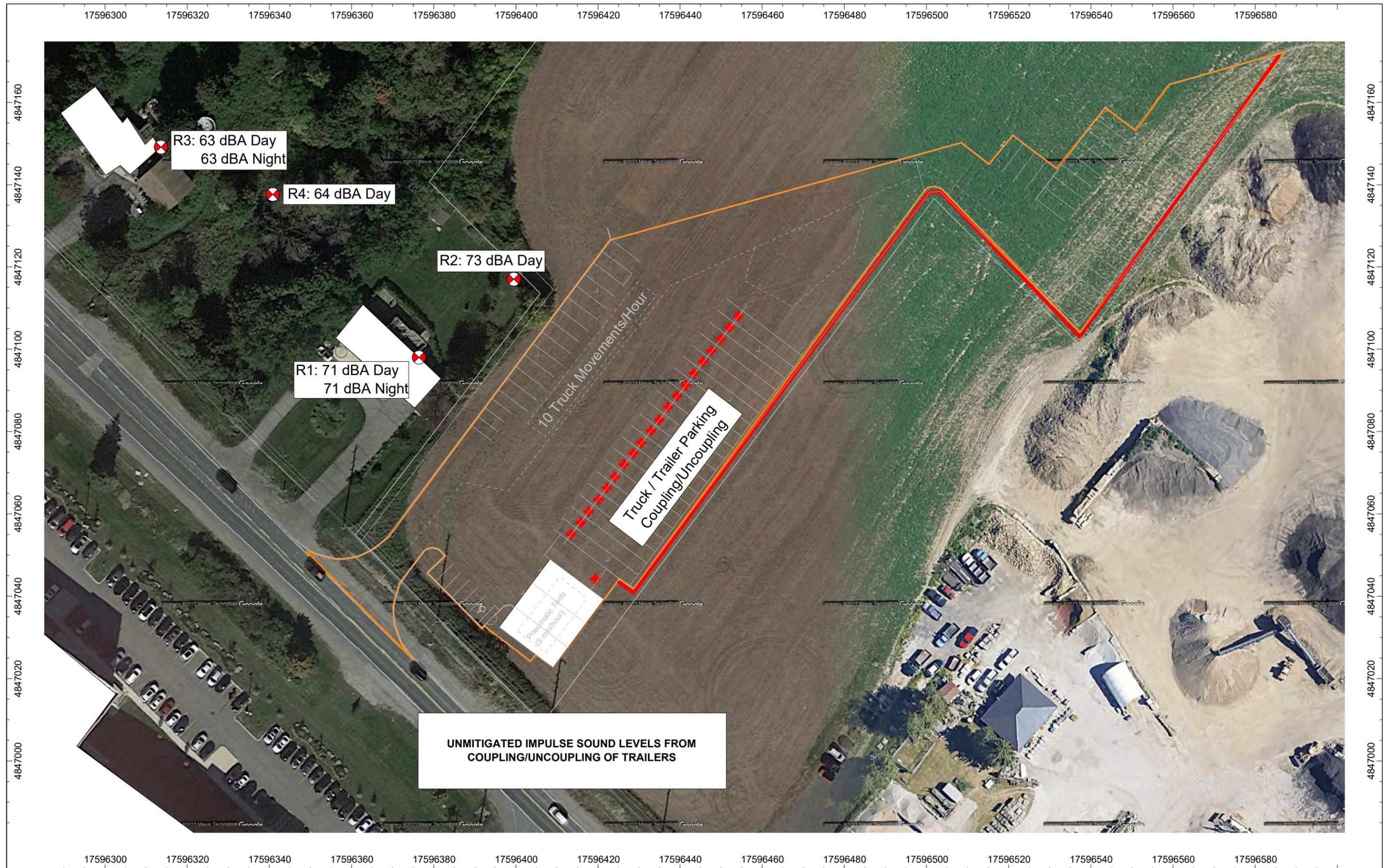


FIGURE 2

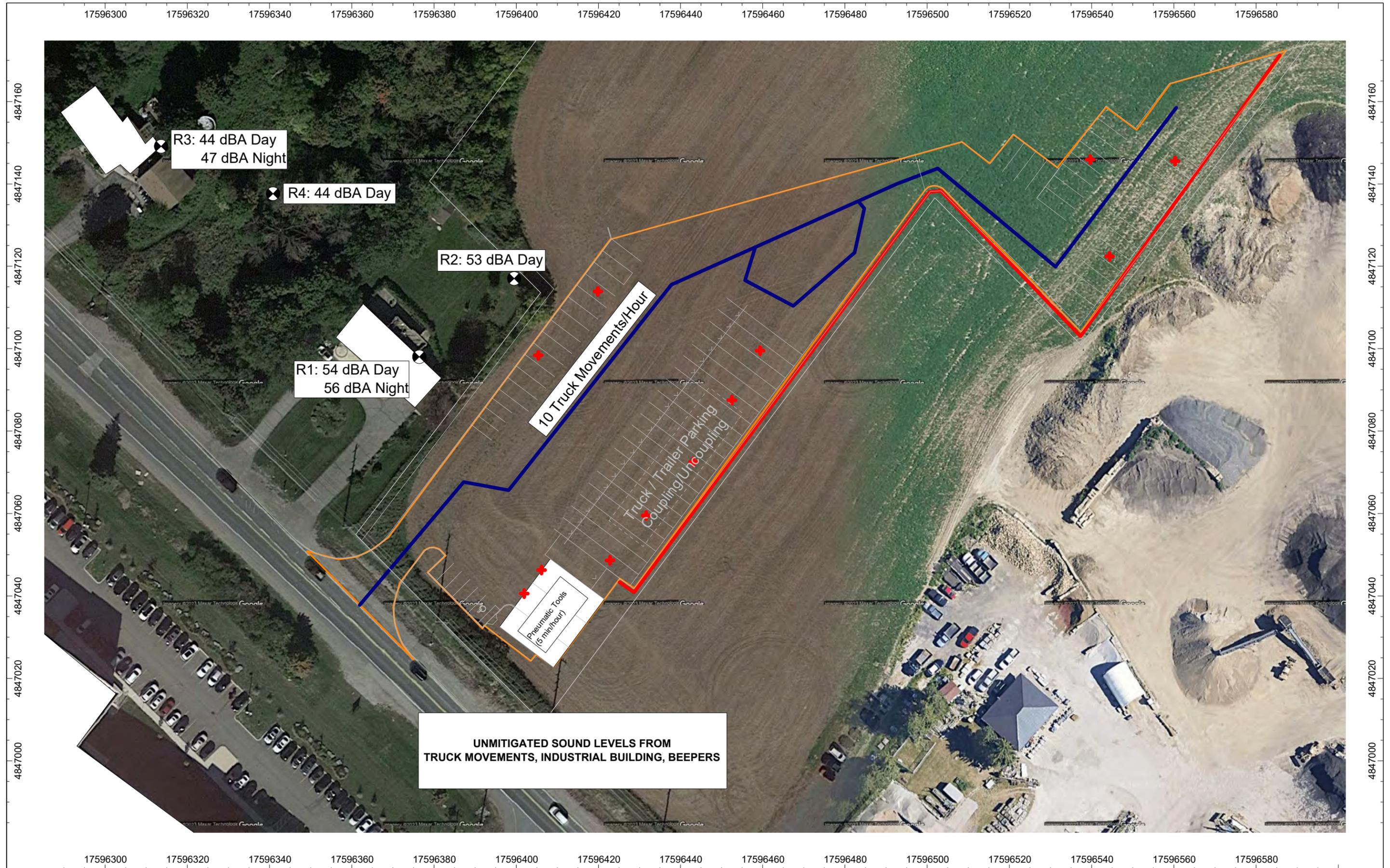


FIGURE 3

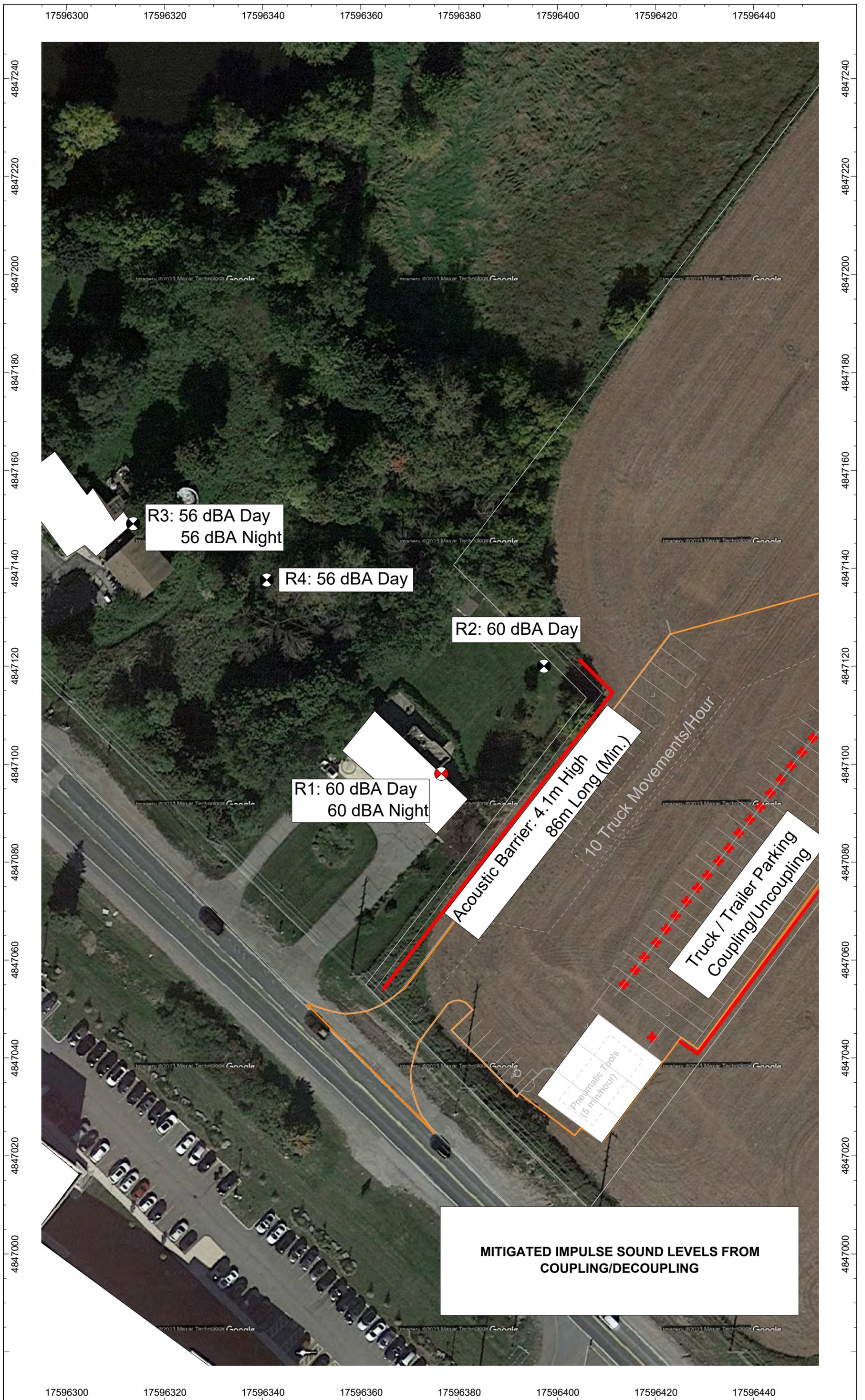


FIGURE 4

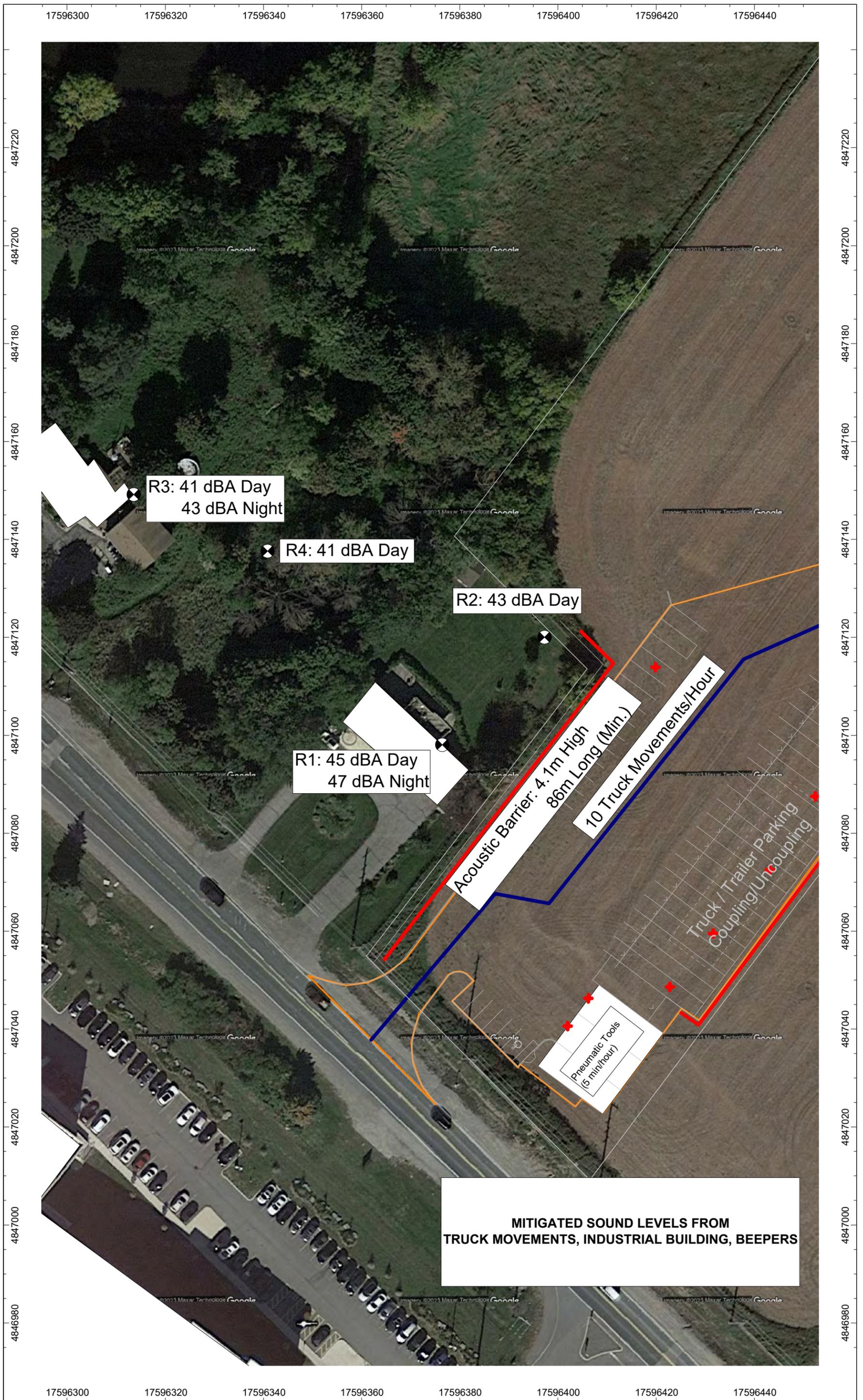


FIGURE 5

APPENDIX B: CALCULATIONS

CADNAA OUTPUT – UNMITGATED IMPULSE SOUND LEVELS

IMPULSE (BANGING) FROM TRAILER HITTING/UNHITCHING

Receiver

Name: R1 - 2nd Storey
 ID: R1
 X: 17596376.42 m
 Y: 4847098.04 m
 Z: 2.00 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
1	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	46.5	0.1	-0.2	0.0	0.0	8.5	0.0	0.0	40.4

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
2	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	47.0	0.1	-0.2	0.0	0.0	8.4	0.0	0.0	40.1
3	17596401.94	4847040.60	2.00	1	D	500	117.0	0.0	-21.6	0.0	0.0	58.1	0.4	3.5	0.0	0.0	0.0	0.0	0.0	33.4

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
4	17596433.49	4847110.09	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	46.3	0.1	0.1	0.0	0.0	7.7	0.0	0.0	25.5
5	17596424.90	4847099.27	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	44.7	0.1	0.0	0.0	0.0	8.3	0.0	0.0	26.5
6	17596416.31	4847088.45	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	43.3	0.1	-0.1	0.0	0.0	8.9	0.0	0.0	27.5
8	17596407.72	4847077.64	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	42.4	0.1	-0.1	0.0	0.0	9.2	0.0	0.0	28.1
10	17596400.80	4847068.93	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	42.6	0.1	-0.1	0.0	0.0	9.1	0.0	0.0	25.8
14	17596383.51	4847063.29	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	42.0	0.1	0.7	0.0	0.0	8.7	0.0	0.0	27.4
16	17596376.11	4847054.54	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	43.8	0.1	1.0	0.0	0.0	7.8	0.0	0.0	26.2
20	17596368.21	4847045.19	2.40	0	D	500	68.2	11.1	0.0	0.0	0.0	45.6	0.1	1.3	0.0	0.0	6.6	0.0	0.0	25.9
22	17596362.96	4847038.98	2.40	0	D	500	68.2	5.1	0.0	0.0	0.0	46.6	0.1	1.3	0.0	0.0	4.7	0.0	0.0	20.5
26	17596384.05	4847063.93	2.40	1	D	500	68.2	9.9	0.0	0.0	0.0	58.2	0.4	2.2	0.0	0.0	0.0	0.0	0.0	17.3
28	17596377.73	4847056.45	2.40	1	D	500	68.2	9.9	0.0	0.0	0.0	57.8	0.4	2.5	0.0	0.0	0.0	0.0	0.0	17.4
30	17596368.25	4847045.23	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	57.2	0.4	2.9	0.0	0.0	0.0	0.0	0.0	20.7
41	17596478.96	4847133.89	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	51.7	0.2	-0.3	0.0	0.0	6.2	0.0	0.0	25.2
47	17596451.51	4847121.63	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	48.9	0.2	0.2	0.0	0.0	6.7	0.0	0.0	27.1
52	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	42.0	0.1	0.2	0.0	0.0	9.1	0.0	0.0	27.4
55	17596392.69	4847066.65	2.40	1	D	500	68.2	10.5	0.0	0.0	0.0	58.5	0.5	1.9	0.0	0.0	0.0	0.0	0.0	17.8
68	17596517.59	4847131.26	2.40	0	D	500	68.2	15.5	0.0	0.0	0.0	54.2	0.3	-0.0	0.0	0.0	6.1	0.0	0.0	23.2
75	17596503.23	4847143.21	2.40	0	D	500	68.2	2.6	0.0	0.0	0.0	53.6	0.3	-0.3	0.0	0.0	5.9	0.0	0.0	11.4
77	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	55.8	0.3	-0.4	0.0	0.0	5.8	0.0	0.0	23.5
112	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	53.2	0.2	-0.3	0.0	0.0	5.9	0.0	0.0	19.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
33	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	40.2	0.1	-0.2	0.0	0.0	14.4	0.0	0.0	27.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
35	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.6	0.2	-1.8	0.0	0.0	10.4	0.0	0.0	25.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
39	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.1	0.3	-1.8	0.0	0.0	10.2	0.0	0.0	24.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
50	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	44.3	0.2	-0.4	0.0	0.0	11.7	0.0	0.0	25.8

IMPULSE (BANGING) FROM TRAILER HITTING/UNHITCHING

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
60	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.6	0.2	-1.8	0.0	0.0	10.4	0.0	0.0	25.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
62	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.7	0.3	-1.8	0.0	0.0	9.8	0.0	0.0	24.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
66	17596459.36	4847099.55	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	49.4	0.3	-1.9	0.0	0.0	9.4	0.0	0.0	24.4

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
88	17596474.88	4847116.86	2.40	0	D	500	68.2	13.0	0.0	0.0	0.0	51.0	0.2	-0.6	0.0	0.0	6.8	0.0	0.0	23.8
99	17596461.55	4847113.49	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	49.7	0.2	-0.3	0.0	0.0	7.1	0.0	0.0	22.8
107	17596456.93	4847120.62	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	49.4	0.2	-0.0	0.0	0.0	6.8	0.0	0.0	21.1
117	17596483.53	4847128.67	2.40	0	D	500	68.2	10.4	0.0	0.0	0.0	51.9	0.2	-0.5	0.0	0.0	6.3	0.0	0.0	20.6
119	17596484.10	4847134.75	2.40	0	D	500	68.2	2.8	0.0	0.0	0.0	52.1	0.2	-0.3	0.0	0.0	6.2	0.0	0.0	12.9
121	17596483.37	4847135.60	2.40	0	D	500	68.2	-4.7	0.0	0.0	0.0	52.1	0.2	-0.3	0.0	0.0	6.1	0.0	0.0	5.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
103	17596544.39	4847122.39	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.6	0.6	-1.7	0.0	0.0	7.4	0.0	0.0	19.6

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
105	17596539.65	4847145.93	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.6	0.6	-2.2	0.0	0.0	6.8	0.0	0.0	20.8

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
109	17596560.27	4847145.51	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	56.6	0.7	-2.4	0.0	0.0	6.7	0.0	0.0	20.0

IMPULSE (BANGING) FROM TRAILER HITTING/UNHITCHING

Receiver

Name: R2 - Grade

ID: R2

X: 17596399.54 m

Y: 4847117.05 m

Z: 1.50 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
53	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	48.0	0.1	0.6	0.0	0.0	9.0	0.0	0.0	37.7
57	17596406.18	4847046.26	2.00	1	D	500	117.0	0.0	-21.6	0.0	0.0	48.9	0.2	0.3	0.0	0.0	9.3	0.0	1.0	35.8

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
59	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	48.7	0.1	0.6	0.0	0.0	8.6	0.0	0.0	37.3
61	17596401.94	4847040.60	2.00	1	D	500	117.0	0.0	-21.6	0.0	0.0	49.6	0.2	0.5	0.0	0.0	8.8	0.0	1.0	35.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
72	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	36.8	0.1	-0.2	0.0	0.0	15.6	0.0	0.0	29.3
74	17596405.40	4847098.40	2.00	1	D	1000	115.0	0.0	-33.4	0.0	0.0	39.6	0.1	-0.2	0.0	0.0	14.3	0.0	1.0	26.9

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
81	17596434.64	4847111.54	2.40	0	D	500	68.2	10.0	0.0	0.0	0.0	42.0	0.1	0.0	0.0	0.0	10.5	0.0	0.0	25.6
83	17596427.33	4847102.34	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	41.0	0.1	-0.1	0.0	0.0	10.7	0.0	0.0	27.9
85	17596419.00	4847091.85	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	41.1	0.1	-0.0	0.0	0.0	11.0	0.0	0.0	27.4
89	17596410.67	4847081.36	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	42.5	0.1	0.2	0.0	0.0	10.3	0.0	0.0	26.5
91	17596402.34	4847070.87	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	44.3	0.1	0.5	0.0	0.0	9.2	0.0	0.0	25.4
93	17596413.58	4847085.03	2.40	1	D	500	68.2	10.2	0.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	10.5	0.0	1.0	23.7
94	17596404.27	4847073.30	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	45.3	0.1	0.6	0.0	0.0	9.0	0.0	1.0	25.2
102	17596478.96	4847133.89	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	49.2	0.2	0.5	0.0	0.0	9.3	0.0	0.0	23.9
104	17596458.37	4847124.69	2.40	0	D	500	68.2	11.8	0.0	0.0	0.0	46.5	0.1	0.3	0.0	0.0	9.8	0.0	0.0	23.2
106	17596444.65	4847118.56	2.40	0	D	500	68.2	11.8	0.0	0.0	0.0	44.1	0.1	0.0	0.0	0.0	10.4	0.0	0.0	25.4
120	17596383.54	4847063.33	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	46.0	0.1	2.8	0.0	0.0	5.6	0.0	0.0	24.3
122	17596370.90	4847048.37	2.40	0	D	500	68.2	14.4	0.0	0.0	0.0	48.4	0.1	4.1	0.0	0.0	3.3	0.0	0.0	26.7
124	17596386.57	4847066.92	2.40	1	D	500	68.2	2.9	0.0	0.0	0.0	46.8	0.1	3.0	0.0	0.0	5.2	0.0	1.0	15.1
126	17596379.93	4847059.06	2.40	1	D	500	68.2	12.7	0.0	0.0	0.0	48.1	0.1	3.9	0.0	0.0	3.7	0.0	1.0	24.1
128	17596367.93	4847044.86	2.40	1	D	500	68.2	12.7	0.0	0.0	0.0	50.1	0.2	4.2	0.0	0.0	2.6	0.0	1.0	22.9
130	17596368.25	4847045.23	2.40	2	D	500	68.2	12.9	0.0	0.0	0.0	58.8	0.5	5.6	0.0	0.0	0.0	0.0	1.0	15.3
131	17596368.25	4847045.23	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	58.4	0.4	5.6	0.0	0.0	0.0	0.0	0.0	16.8
135	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	45.1	0.1	1.4	0.0	0.0	7.6	0.0	0.0	24.5
136	17596393.19	4847066.55	2.40	1	D	500	68.2	10.1	0.0	0.0	0.0	46.6	0.1	1.7	0.0	0.0	7.0	0.0	1.0	21.9
137	17596387.70	4847067.58	2.40	1	D	500	68.2	0.0	0.0	0.0	0.0	46.7	0.1	2.8	0.0	0.0	5.5	0.0	1.0	12.2
138	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	52.5	0.2	0.8	0.0	0.0	9.2	0.0	0.0	21.2
139	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	54.4	0.3	0.4	0.0	0.0	9.3	0.0	0.0	20.7
145	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	51.1	0.2	0.5	0.0	0.0	8.9	0.0	0.0	17.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
96	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	37.3	0.1	-0.5	0.0	0.0	14.4	0.0	0.0	30.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
110	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	46.9	0.2	-1.7	0.0	0.0	13.1	0.0	0.0	23.1

IMPULSE (BANGING) FROM TRAILER HITTING/UNHITCHING

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
114	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.2	0.3	-1.8	0.0	0.0	12.4	0.0	0.0	22.5
116	17596422.79	4847048.63	2.00	1	D	1000	115.0	0.0	-33.4	0.0	0.0	48.8	0.3	-1.9	0.0	0.0	12.6	0.0	1.0	20.8

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
132	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	46.6	0.2	-1.7	0.0	0.0	12.9	0.0	0.0	23.6

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
133	17596459.36	4847099.55	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	46.9	0.2	-1.7	0.0	0.0	12.5	0.0	0.0	23.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
134	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.4	0.2	-1.7	0.0	0.0	12.8	0.0	0.0	22.9

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
140	17596474.88	4847116.86	2.40	0	D	500	68.2	13.0	0.0	0.0	0.0	48.5	0.1	0.1	0.0	0.0	10.1	0.0	0.0	22.2
141	17596461.55	4847113.49	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	46.9	0.1	0.0	0.0	0.0	10.3	0.0	0.0	22.2
142	17596456.93	4847120.62	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	46.2	0.1	0.2	0.0	0.0	10.1	0.0	0.0	20.9
146	17596483.53	4847128.67	2.40	0	D	500	68.2	10.4	0.0	0.0	0.0	49.6	0.2	0.3	0.0	0.0	9.7	0.0	0.0	18.9
148	17596483.99	4847134.88	2.40	0	D	500	68.2	3.5	0.0	0.0	0.0	49.7	0.2	0.4	0.0	0.0	9.3	0.0	0.0	12.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
143	17596539.65	4847145.93	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.1	0.5	-2.2	0.0	0.0	12.0	0.0	0.0	17.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
144	17596544.39	4847122.39	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.2	0.5	-1.7	0.0	0.0	12.5	0.0	0.0	16.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
147	17596560.27	4847145.51	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.3	0.6	-2.4	0.0	0.0	12.0	0.0	0.0	16.1

IMPULSE (BANGING) FROM TRAILER HITTING/UNHITCHING

Receiver

Name: R3 - Facade

ID: R3

X: 17596313.61 m

Y: 4847149.13 m

Z: 2.00 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
7	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	53.8	0.3	2.4	0.0	0.0	3.6	0.0	0.0	35.4

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
9	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	53.9	0.3	2.4	0.0	0.0	3.6	0.0	0.0	35.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
11	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.4	0.5	-0.8	0.0	0.0	6.3	0.0	0.0	21.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
13	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.5	0.6	-0.9	0.0	0.0	6.2	0.0	0.0	21.2

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
15	17596436.05	4847113.31	2.40	0	D	500	68.2	7.5	0.0	0.0	0.0	53.1	0.2	2.4	0.0	0.0	0.0	0.0	0.0	19.9
17	17596420.59	4847093.84	2.40	0	D	500	68.2	16.4	0.0	0.0	0.0	52.6	0.2	2.4	0.0	0.0	4.1	0.0	0.0	25.3
19	17596402.52	4847071.09	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	52.5	0.2	2.4	0.0	0.0	4.2	0.0	0.0	20.3
24	17596465.23	4847127.76	2.40	0	D	500	68.2	17.8	0.0	0.0	0.0	54.7	0.3	2.3	0.0	0.0	0.0	0.0	0.0	28.7
32	17596377.70	4847056.42	2.40	0	D	500	68.2	14.7	0.0	0.0	0.0	52.0	0.2	2.7	0.0	0.0	5.6	0.0	0.0	22.3
34	17596365.06	4847041.46	2.40	0	D	500	68.2	9.9	0.0	0.0	0.0	52.5	0.2	2.7	0.0	0.0	0.0	0.0	0.0	22.7
37	17596383.56	4847063.35	2.40	1	D	500	68.2	10.5	0.0	0.0	0.0	58.0	0.4	2.8	0.0	0.0	3.1	0.0	0.0	14.4
40	17596370.92	4847048.39	2.40	1	D	500	68.2	14.5	0.0	0.0	0.0	57.4	0.4	2.7	0.0	0.0	0.0	0.0	0.0	22.2
65	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	57.2	0.4	1.9	0.0	0.0	0.0	0.0	0.0	24.5
67	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	58.3	0.4	1.2	0.0	0.0	0.0	0.0	0.0	25.1
69	17596393.42	4847066.51	2.40	0	D	500	68.2	9.9	0.0	0.0	0.0	52.2	0.2	2.5	0.0	0.0	4.6	0.0	0.0	18.5
71	17596387.93	4847067.53	2.40	0	D	500	68.2	1.7	0.0	0.0	0.0	51.9	0.2	2.7	0.0	0.0	5.5	0.0	0.0	9.7
76	17596392.69	4847066.65	2.40	1	D	500	68.2	10.5	0.0	0.0	0.0	58.4	0.5	2.5	0.0	0.0	2.7	0.0	0.0	14.6
87	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	56.3	0.4	2.6	0.0	0.0	0.0	0.0	0.0	19.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
42	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	51.4	0.4	0.2	0.0	0.0	13.9	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
44	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.0	0.4	0.1	0.0	0.0	6.2	0.0	0.0	22.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
46	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.4	0.5	-0.8	0.0	0.0	6.3	0.0	0.0	21.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
48	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.6	0.6	-0.9	0.0	0.0	6.0	0.0	0.0	21.3

IMPULSE (BANGING) FROM TRAILER HITTING/UNHITCHING

Receiver

Name: R4 - Rear

ID: R4

X: 17596340.84 m

Y: 4847137.58 m

Z: 1.50 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
12	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	52.0	0.2	4.6	0.0	0.0	2.0	0.0	0.0	36.6

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
18	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	52.2	0.2	4.6	0.0	0.0	1.9	0.0	0.0	36.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
21	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.7	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
23	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.7	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
25	17596436.51	4847113.89	2.40	0	D	500	68.2	6.1	0.0	0.0	0.0	50.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	18.7
27	17596426.97	4847101.88	2.40	0	D	500	68.2	14.2	0.0	0.0	0.0	50.4	0.2	4.5	0.0	0.0	2.5	0.0	0.0	24.9
29	17596410.44	4847081.07	2.40	0	D	500	68.2	14.2	0.0	0.0	0.0	50.1	0.2	4.5	0.0	0.0	2.8	0.0	0.0	24.9
31	17596400.18	4847068.14	2.40	0	D	500	68.2	8.1	0.0	0.0	0.0	50.2	0.2	4.5	0.0	0.0	2.7	0.0	0.0	18.7
36	17596465.23	4847127.76	2.40	0	D	500	68.2	17.8	0.0	0.0	0.0	52.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	28.2
38	17596382.09	4847061.61	2.40	0	D	500	68.2	12.0	0.0	0.0	0.0	49.7	0.2	4.7	0.0	0.0	4.0	0.0	0.0	21.7
43	17596371.84	4847049.48	2.40	0	D	500	68.2	12.0	0.0	0.0	0.0	50.4	0.2	4.9	0.0	0.0	3.6	0.0	0.0	21.2
45	17596364.31	4847040.58	2.40	0	D	500	68.2	8.7	0.0	0.0	0.0	51.0	0.2	4.9	0.0	0.0	0.0	0.0	0.0	20.9
49	17596385.81	4847066.01	2.40	1	D	500	68.2	6.4	0.0	0.0	0.0	58.0	0.4	5.3	0.0	0.0	0.2	0.0	0.0	10.6
51	17596380.95	4847060.26	2.40	1	D	500	68.2	10.3	0.0	0.0	0.0	57.7	0.4	5.2	0.0	0.0	0.0	0.0	0.0	15.2
54	17596374.57	4847052.71	2.40	1	D	500	68.2	15.9	0.0	0.0	0.0	58.5	0.5	5.3	0.0	0.0	0.0	0.0	0.0	19.9
79	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	49.9	0.2	4.6	0.0	0.0	3.2	0.0	0.0	20.9
90	17596392.79	4847066.63	2.40	1	D	500	68.2	8.1	0.0	0.0	0.0	58.3	0.4	4.8	0.0	0.0	0.0	0.0	0.0	12.9
92	17596388.39	4847067.45	2.40	1	D	500	68.2	3.8	0.0	0.0	0.0	58.1	0.4	5.2	0.0	0.0	0.2	0.0	0.0	8.1
95	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	55.9	0.3	4.3	0.0	0.0	0.0	0.0	0.0	23.4
97	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	57.2	0.4	3.8	0.0	0.0	0.0	0.0	0.0	23.7
123	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	54.9	0.3	5.1	0.0	0.0	0.0	0.0	0.0	18.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
56	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.6	0.3	0.6	0.0	0.0	13.9	0.0	0.0	18.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
58	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	49.3	0.3	0.5	0.0	0.0	7.5	0.0	0.0	24.0

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
64	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.6	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

CADNAA OUTPUT – MITGATED IMPULSE SOUND LEVELS

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Receiver

Name: R1 - 2nd Storey
 ID: R1
 X: 17596376.42 m
 Y: 4847098.04 m
 Z: 2.00 m

Point Source, ISO 9613, Name: "Loading", ID: "LOAD"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
64	17596419.37	4847044.20	2.00	0	DEN	32	61.0	0.0	0.0	0.0	0.0	47.8	0.0	-3.0	0.0	0.0	5.1	0.0	0.0	11.1
64	17596419.37	4847044.20	2.00	0	DEN	63	71.1	0.0	0.0	0.0	0.0	47.8	0.0	-3.0	0.0	0.0	5.4	0.0	0.0	20.9
64	17596419.37	4847044.20	2.00	0	DEN	125	96.5	0.0	0.0	0.0	0.0	47.8	0.0	-1.2	0.0	0.0	6.0	0.0	0.0	43.9
64	17596419.37	4847044.20	2.00	0	DEN	250	103.8	0.0	0.0	0.0	0.0	47.8	0.1	1.6	0.0	0.0	5.4	0.0	0.0	49.0
64	17596419.37	4847044.20	2.00	0	DEN	500	97.5	0.0	0.0	0.0	0.0	47.8	0.1	-0.6	0.0	0.0	8.4	0.0	0.0	41.8
64	17596419.37	4847044.20	2.00	0	DEN	1000	95.4	0.0	0.0	0.0	0.0	47.8	0.3	-1.8	0.0	0.0	10.3	0.0	0.0	38.8
64	17596419.37	4847044.20	2.00	0	DEN	2000	92.8	0.0	0.0	0.0	0.0	47.8	0.7	-1.9	0.0	0.0	12.7	0.0	0.0	33.5
64	17596419.37	4847044.20	2.00	0	DEN	4000	86.7	0.0	0.0	0.0	0.0	47.8	2.3	-1.9	0.0	0.0	15.4	0.0	0.0	23.2
64	17596419.37	4847044.20	2.00	0	DEN	8000	80.4	0.0	0.0	0.0	0.0	47.8	8.0	-1.9	0.0	0.0	18.2	0.0	0.0	8.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
65	17596422.17	4847066.30	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.0
65	17596422.17	4847066.30	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.8	0.0	0.0	9.7
65	17596422.17	4847066.30	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.9	0.0	-1.7	0.0	0.0	6.6	0.0	0.0	31.7
65	17596422.17	4847066.30	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.9	0.1	0.6	0.0	0.0	7.3	0.0	0.0	32.2
65	17596422.17	4847066.30	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.9	0.1	-0.5	0.0	0.0	9.6	0.0	0.0	41.2
65	17596422.17	4847066.30	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.9	0.2	-1.8	0.0	0.0	11.9	0.0	0.0	44.4
65	17596422.17	4847066.30	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.9	0.5	-2.1	0.0	0.0	14.4	0.0	0.0	38.0
65	17596422.17	4847066.30	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.9	1.8	-2.1	0.0	0.0	17.2	0.0	0.0	28.7
65	17596422.17	4847066.30	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.9	6.5	-2.1	0.0	0.0	20.0	0.0	0.0	19.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
66	17596420.17	4847063.55	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.0
66	17596420.17	4847063.55	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.8	0.0	0.0	9.7
66	17596420.17	4847063.55	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.9	0.0	-1.7	0.0	0.0	6.6	0.0	0.0	31.7
66	17596420.17	4847063.55	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.9	0.1	0.6	0.0	0.0	7.3	0.0	0.0	32.2
66	17596420.17	4847063.55	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.9	0.1	-0.5	0.0	0.0	9.6	0.0	0.0	41.2
66	17596420.17	4847063.55	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.9	0.2	-1.8	0.0	0.0	11.9	0.0	0.0	44.4
66	17596420.17	4847063.55	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.9	0.5	-2.1	0.0	0.0	14.4	0.0	0.0	38.0
66	17596420.17	4847063.55	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.9	1.8	-2.1	0.0	0.0	17.2	0.0	0.0	28.7
66	17596420.17	4847063.55	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.9	6.5	-2.1	0.0	0.0	20.0	0.0	0.0	19.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
67	17596417.75	4847060.61	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.0
67	17596417.75	4847060.61	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.8	0.0	0.0	9.7
67	17596417.75	4847060.61	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.9	0.0	-1.7	0.0	0.0	6.6	0.0	0.0	31.7
67	17596417.75	4847060.61	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.9	0.1	0.6	0.0	0.0	7.3	0.0	0.0	32.2
67	17596417.75	4847060.61	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.9	0.1	-0.5	0.0	0.0	9.6	0.0	0.0	41.2
67	17596417.75	4847060.61	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.9	0.2	-1.8	0.0	0.0	11.9	0.0	0.0	44.4
67	17596417.75	4847060.61	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.9	0.5	-2.1	0.0	0.0	14.4	0.0	0.0	38.0
67	17596417.75	4847060.61	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.9	1.8	-2.1	0.0	0.0	17.2	0.0	0.0	28.7
67	17596417.75	4847060.61	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.9	6.5	-2.1	0.0	0.0	20.0	0.0	0.0	19.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
68	17596424.13	4847069.03	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.0

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
68	17596424.13	4847069.03	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	5.8	0.0	0.0	9.7
68	17596424.13	4847069.03	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.9	0.0	-1.7	0.0	0.0	6.6	0.0	0.0	31.7
68	17596424.13	4847069.03	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.9	0.1	0.6	0.0	0.0	7.3	0.0	0.0	32.2
68	17596424.13	4847069.03	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.9	0.1	-0.5	0.0	0.0	9.6	0.0	0.0	41.2
68	17596424.13	4847069.03	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.9	0.2	-1.8	0.0	0.0	11.9	0.0	0.0	44.4
68	17596424.13	4847069.03	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.9	0.5	-2.1	0.0	0.0	14.4	0.0	0.0	38.0
68	17596424.13	4847069.03	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.9	1.8	-2.1	0.0	0.0	17.2	0.0	0.0	28.7
68	17596424.13	4847069.03	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.9	6.5	-2.1	0.0	0.0	20.0	0.0	0.0	19.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
69	17596415.84	4847057.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.0	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.1
69	17596415.84	4847057.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.0	0.0	-3.0	0.0	0.0	5.8	0.0	0.0	9.6
69	17596415.84	4847057.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.0	0.0	-1.7	0.0	0.0	6.6	0.0	0.0	31.6
69	17596415.84	4847057.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.0	0.1	0.6	0.0	0.0	7.3	0.0	0.0	32.1
69	17596415.84	4847057.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.0	0.1	-0.5	0.0	0.0	9.6	0.0	0.0	41.2
69	17596415.84	4847057.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.0	0.2	-1.8	0.0	0.0	11.8	0.0	0.0	44.4
69	17596415.84	4847057.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.0	0.5	-2.1	0.0	0.0	14.4	0.0	0.0	37.9
69	17596415.84	4847057.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.0	1.8	-2.1	0.0	0.0	17.2	0.0	0.0	28.7
69	17596415.84	4847057.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.0	6.6	-2.1	0.0	0.0	20.0	0.0	0.0	19.0

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
70	17596426.33	4847071.98	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.0	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.1
70	17596426.33	4847071.98	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.0	0.0	-3.0	0.0	0.0	5.8	0.0	0.0	9.6
70	17596426.33	4847071.98	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.0	0.0	-1.7	0.0	0.0	6.6	0.0	0.0	31.6
70	17596426.33	4847071.98	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.0	0.1	0.6	0.0	0.0	7.2	0.0	0.0	32.1
70	17596426.33	4847071.98	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.0	0.1	-0.5	0.0	0.0	9.6	0.0	0.0	41.2
70	17596426.33	4847071.98	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.0	0.2	-1.8	0.0	0.0	11.8	0.0	0.0	44.4
70	17596426.33	4847071.98	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.0	0.5	-2.1	0.0	0.0	14.4	0.0	0.0	37.9
70	17596426.33	4847071.98	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.0	1.8	-2.1	0.0	0.0	17.1	0.0	0.0	28.7
70	17596426.33	4847071.98	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.0	6.6	-2.1	0.0	0.0	20.0	0.0	0.0	19.0

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
71	17596413.54	4847055.06	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.1	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.2
71	17596413.54	4847055.06	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.1	0.0	-3.0	0.0	0.0	5.8	0.0	0.0	9.6
71	17596413.54	4847055.06	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.1	0.0	-1.7	0.0	0.0	6.5	0.0	0.0	31.5
71	17596413.54	4847055.06	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.1	0.1	0.6	0.0	0.0	7.2	0.0	0.0	32.1
71	17596413.54	4847055.06	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.1	0.1	-0.5	0.0	0.0	9.6	0.0	0.0	41.1
71	17596413.54	4847055.06	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.1	0.2	-1.8	0.0	0.0	11.8	0.0	0.0	44.4
71	17596413.54	4847055.06	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.1	0.5	-2.1	0.0	0.0	14.3	0.0	0.0	37.9
71	17596413.54	4847055.06	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.1	1.9	-2.1	0.0	0.0	17.1	0.0	0.0	28.6
71	17596413.54	4847055.06	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.1	6.6	-2.1	0.0	0.0	20.0	0.0	0.0	18.9

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
72	17596428.59	4847074.76	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.1	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.2
72	17596428.59	4847074.76	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.1	0.0	-3.0	0.0	0.0	5.7	0.0	0.0	9.5
72	17596428.59	4847074.76	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.1	0.0	-1.7	0.0	0.0	6.5	0.0	0.0	31.5
72	17596428.59	4847074.76	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.1	0.1	0.6	0.0	0.0	7.2	0.0	0.0	32.0
72	17596428.59	4847074.76	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.1	0.1	-0.5	0.0	0.0	9.5	0.0	0.0	41.1
72	17596428.59	4847074.76	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.1	0.2	-1.8	0.0	0.0	11.8	0.0	0.0	44.3
72	17596428.59	4847074.76	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.1	0.6	-2.1	0.0	0.0	14.3	0.0	0.0	37.9
72	17596428.59	4847074.76	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.1	1.9	-2.1	0.0	0.0	17.1	0.0	0.0	28.6
72	17596428.59	4847074.76	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.1	6.7	-2.1	0.0	0.0	20.0	0.0	0.0	18.8

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
73	17596430.54	4847077.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.3	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.3
73	17596430.54	4847077.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.3	0.0	-3.0	0.0	0.0	5.7	0.0	0.0	9.4
73	17596430.54	4847077.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.3	0.0	-1.7	0.0	0.0	6.5	0.0	0.0	31.4
73	17596430.54	4847077.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.3	0.1	0.6	0.0	0.0	7.1	0.0	0.0	31.9
73	17596430.54	4847077.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.3	0.1	-0.5	0.0	0.0	9.5	0.0	0.0	41.0
73	17596430.54	4847077.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.3	0.2	-1.8	0.0	0.0	11.7	0.0	0.0	44.3
73	17596430.54	4847077.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.3	0.6	-2.1	0.0	0.0	14.2	0.0	0.0	37.8
73	17596430.54	4847077.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.3	1.9	-2.1	0.0	0.0	17.0	0.0	0.0	28.5
73	17596430.54	4847077.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.3	6.8	-2.1	0.0	0.0	19.9	0.0	0.0	18.7

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
74	17596432.91	4847080.21	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.5	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.5
74	17596432.91	4847080.21	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.5	0.0	-3.0	0.0	0.0	5.7	0.0	0.0	9.2
74	17596432.91	4847080.21	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.5	0.0	-1.7	0.0	0.0	6.5	0.0	0.0	31.3
74	17596432.91	4847080.21	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.5	0.1	0.6	0.0	0.0	7.0	0.0	0.0	31.8
74	17596432.91	4847080.21	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.5	0.1	-0.5	0.0	0.0	9.4	0.0	0.0	40.9
74	17596432.91	4847080.21	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.5	0.2	-1.8	0.0	0.0	11.6	0.0	0.0	44.2
74	17596432.91	4847080.21	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.5	0.6	-2.1	0.0	0.0	14.1	0.0	0.0	37.7
74	17596432.91	4847080.21	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.5	1.9	-2.1	0.0	0.0	16.9	0.0	0.0	28.4
74	17596432.91	4847080.21	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.5	6.9	-2.1	0.0	0.0	19.8	0.0	0.0	18.5

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
75	17596434.96	4847082.88	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.6	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	-3.7
75	17596434.96	4847082.88	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.6	0.0	-3.0	0.0	0.0	5.7	0.0	0.0	9.1
75	17596434.96	4847082.88	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.6	0.0	-1.7	0.0	0.0	6.4	0.0	0.0	31.1
75	17596434.96	4847082.88	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.6	0.1	0.7	0.0	0.0	6.9	0.0	0.0	31.7
75	17596434.96	4847082.88	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.6	0.1	-0.4	0.0	0.0	9.3	0.0	0.0	40.8
75	17596434.96	4847082.88	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.6	0.2	-1.8	0.0	0.0	11.5	0.0	0.0	44.1
75	17596434.96	4847082.88	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.6	0.6	-2.1	0.0	0.0	14.0	0.0	0.0	37.6
75	17596434.96	4847082.88	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.6	2.0	-2.1	0.0	0.0	16.8	0.0	0.0	28.3
75	17596434.96	4847082.88	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.6	7.1	-2.1	0.0	0.0	19.6	0.0	0.0	18.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
76	17596437.01	4847085.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.8	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	-3.9
76	17596437.01	4847085.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.8	0.0	-3.0	0.0	0.0	5.7	0.0	0.0	8.9
76	17596437.01	4847085.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.8	0.0	-1.7	0.0	0.0	6.4	0.0	0.0	30.9
76	17596437.01	4847085.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.8	0.1	0.8	0.0	0.0	6.8	0.0	0.0	31.6
76	17596437.01	4847085.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.8	0.1	-0.4	0.0	0.0	9.2	0.0	0.0	40.6
76	17596437.01	4847085.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.8	0.2	-1.8	0.0	0.0	11.4	0.0	0.0	44.0
76	17596437.01	4847085.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.8	0.6	-2.1	0.0	0.0	13.9	0.0	0.0	37.5
76	17596437.01	4847085.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.8	2.0	-2.1	0.0	0.0	16.7	0.0	0.0	28.2
76	17596437.01	4847085.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.8	7.2	-2.1	0.0	0.0	19.5	0.0	0.0	18.0

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
77	17596439.27	4847088.69	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	-4.1
77	17596439.27	4847088.69	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	5.6	0.0	0.0	8.7
77	17596439.27	4847088.69	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	47.1	0.0	-1.6	0.0	0.0	6.3	0.0	0.0	30.7
77	17596439.27	4847088.69	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	47.1	0.1	0.8	0.0	0.0	6.6	0.0	0.0	31.4
77	17596439.27	4847088.69	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	47.1	0.1	-0.3	0.0	0.0	9.1	0.0	0.0	40.4
77	17596439.27	4847088.69	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	47.1	0.2	-1.8	0.0	0.0	11.3	0.0	0.0	43.8
77	17596439.27	4847088.69	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	47.1	0.6	-2.1	0.0	0.0	13.8	0.0	0.0	37.4
77	17596439.27	4847088.69	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	47.1	2.1	-2.1	0.0	0.0	16.5	0.0	0.0	28.0
77	17596439.27	4847088.69	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	47.1	7.4	-2.1	0.0	0.0	19.4	0.0	0.0	17.7

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
78	17596441.38	4847091.26	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	47.3	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	-4.3
78	17596441.38	4847091.26	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	47.3	0.0	-3.0	0.0	0.0	5.6	0.0	0.0	8.5
78	17596441.38	4847091.26	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	47.3	0.0	-1.6	0.0	0.0	6.3	0.0	0.0	30.5
78	17596441.38	4847091.26	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	47.3	0.1	0.9	0.0	0.0	6.5	0.0	0.0	31.2
78	17596441.38	4847091.26	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	47.3	0.1	-0.3	0.0	0.0	9.0	0.0	0.0	40.2
78	17596441.38	4847091.26	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	47.3	0.2	-1.8	0.0	0.0	11.2	0.0	0.0	43.7
78	17596441.38	4847091.26	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	47.3	0.6	-2.0	0.0	0.0	13.6	0.0	0.0	37.3
78	17596441.38	4847091.26	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	47.3	2.1	-2.0	0.0	0.0	16.4	0.0	0.0	27.9
78	17596441.38	4847091.26	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	47.3	7.6	-2.0	0.0	0.0	19.2	0.0	0.0	17.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
79	17596443.43	4847094.14	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	47.5	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	-4.5
79	17596443.43	4847094.14	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	47.5	0.0	-3.0	0.0	0.0	5.6	0.0	0.0	8.3
79	17596443.43	4847094.14	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	47.5	0.0	-1.6	0.0	0.0	6.2	0.0	0.0	30.3
79	17596443.43	4847094.14	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	47.5	0.1	1.0	0.0	0.0	6.3	0.0	0.0	31.1
79	17596443.43	4847094.14	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	47.5	0.1	-0.2	0.0	0.0	8.9	0.0	0.0	40.0
79	17596443.43	4847094.14	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	47.5	0.2	-1.8	0.0	0.0	11.0	0.0	0.0	43.6
79	17596443.43	4847094.14	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	47.5	0.6	-2.0	0.0	0.0	13.5	0.0	0.0	37.2
79	17596443.43	4847094.14	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	47.5	2.2	-2.0	0.0	0.0	16.2	0.0	0.0	27.7
79	17596443.43	4847094.14	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	47.5	7.8	-2.0	0.0	0.0	19.0	0.0	0.0	17.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
80	17596445.53	4847096.92	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	47.8	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	-4.8
80	17596445.53	4847096.92	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	47.8	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	8.1
80	17596445.53	4847096.92	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	47.8	0.0	-1.5	0.0	0.0	6.2	0.0	0.0	30.0
80	17596445.53	4847096.92	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	47.8	0.1	1.1	0.0	0.0	6.1	0.0	0.0	30.9
80	17596445.53	4847096.92	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	47.8	0.1	-0.2	0.0	0.0	8.8	0.0	0.0	39.8
80	17596445.53	4847096.92	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	47.8	0.3	-1.7	0.0	0.0	10.9	0.0	0.0	43.4
80	17596445.53	4847096.92	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	47.8	0.7	-2.0	0.0	0.0	13.3	0.0	0.0	37.0
80	17596445.53	4847096.92	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	47.8	2.3	-2.0	0.0	0.0	16.0	0.0	0.0	27.5
80	17596445.53	4847096.92	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	47.8	8.1	-2.0	0.0	0.0	18.9	0.0	0.0	16.8

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
81	17596447.63	4847099.64	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	-5.0
81	17596447.63	4847099.64	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	7.8
81	17596447.63	4847099.64	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	48.1	0.0	-1.5	0.0	0.0	6.1	0.0	0.0	29.8
81	17596447.63	4847099.64	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	48.1	0.1	1.2	0.0	0.0	5.9	0.0	0.0	30.7
81	17596447.63	4847099.64	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	48.1	0.1	-0.1	0.0	0.0	8.7	0.0	0.0	39.6
81	17596447.63	4847099.64	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	48.1	0.3	-1.7	0.0	0.0	10.7	0.0	0.0	43.3
81	17596447.63	4847099.64	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	48.1	0.7	-2.0	0.0	0.0	13.2	0.0	0.0	36.9
81	17596447.63	4847099.64	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	48.1	2.3	-2.0	0.0	0.0	15.9	0.0	0.0	27.4
81	17596447.63	4847099.64	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	48.1	8.3	-2.0	0.0	0.0	18.7	0.0	0.0	16.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
82	17596449.88	4847102.47	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	5.1	0.0	0.0	-5.3
82	17596449.88	4847102.47	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	7.6
82	17596449.88	4847102.47	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	48.3	0.0	-1.5	0.0	0.0	6.1	0.0	0.0	29.5
82	17596449.88	4847102.47	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	48.3	0.1	1.3	0.0	0.0	5.7	0.0	0.0	30.5
82	17596449.88	4847102.47	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	48.3	0.1	-0.1	0.0	0.0	8.6	0.0	0.0	39.4
82	17596449.88	4847102.47	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	48.3	0.3	-1.7	0.0	0.0	10.6	0.0	0.0	43.1
82	17596449.88	4847102.47	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	48.3	0.7	-2.0	0.0	0.0	13.0	0.0	0.0	36.7
82	17596449.88	4847102.47	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	48.3	2.4	-2.0	0.0	0.0	15.7	0.0	0.0	27.2
82	17596449.88	4847102.47	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	48.3	8.6	-2.0	0.0	0.0	18.5	0.0	0.0	16.1

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
83	17596452.02	4847105.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	48.6	0.0	-3.0	0.0	0.0	5.1	0.0	0.0	-5.5
83	17596452.02	4847105.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	48.6	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	7.3
83	17596452.02	4847105.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	48.6	0.0	-1.4	0.0	0.0	6.0	0.0	0.0	29.3
83	17596452.02	4847105.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	48.6	0.1	1.5	0.0	0.0	5.5	0.0	0.0	30.3
83	17596452.02	4847105.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	48.6	0.1	-0.0	0.0	0.0	8.5	0.0	0.0	39.2
83	17596452.02	4847105.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	48.6	0.3	-1.7	0.0	0.0	10.4	0.0	0.0	42.9
83	17596452.02	4847105.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	48.6	0.7	-2.0	0.0	0.0	12.8	0.0	0.0	36.6
83	17596452.02	4847105.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	48.6	2.5	-2.0	0.0	0.0	15.5	0.0	0.0	27.0
83	17596452.02	4847105.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	48.6	8.9	-2.0	0.0	0.0	18.3	0.0	0.0	15.7

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
84	17596454.16	4847108.04	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	48.9	0.0	-3.0	0.0	0.0	5.1	0.0	0.0	-5.8
84	17596454.16	4847108.04	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	48.9	0.0	-3.0	0.0	0.0	5.4	0.0	0.0	7.1
84	17596454.16	4847108.04	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	48.9	0.0	-1.4	0.0	0.0	6.0	0.0	0.0	29.0
84	17596454.16	4847108.04	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	48.9	0.1	1.6	0.0	0.0	5.3	0.0	0.0	30.1
84	17596454.16	4847108.04	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	48.9	0.2	0.1	0.0	0.0	8.3	0.0	0.0	39.0
84	17596454.16	4847108.04	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	48.9	0.3	-1.7	0.0	0.0	10.3	0.0	0.0	42.8
84	17596454.16	4847108.04	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	48.9	0.8	-2.0	0.0	0.0	12.6	0.0	0.0	36.5
84	17596454.16	4847108.04	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	48.9	2.6	-2.0	0.0	0.0	15.3	0.0	0.0	26.8
84	17596454.16	4847108.04	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	48.9	9.2	-2.0	0.0	0.0	18.1	0.0	0.0	15.3

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Receiver
 Name: R2 - Grade
 ID: R2
 X: 17596397.29 m
 Y: 4847120.04 m
 Z: 1.50 m

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
1	17596437.01	4847085.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	4.0	0.0	0.0	-1.2
1	17596437.01	4847085.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	10.9
1	17596437.01	4847085.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.4	0.0	-1.8	0.0	0.0	6.6	0.0	0.0	32.3
1	17596437.01	4847085.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.4	0.1	0.8	0.0	0.0	7.8	0.0	0.0	32.0
1	17596437.01	4847085.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.4	0.1	0.3	0.0	0.0	10.5	0.0	0.0	40.2
1	17596437.01	4847085.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.4	0.2	-1.7	0.0	0.0	13.2	0.0	0.0	43.5
1	17596437.01	4847085.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.4	0.5	-2.1	0.0	0.0	16.0	0.0	0.0	37.0
1	17596437.01	4847085.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.4	1.7	-2.1	0.0	0.0	18.8	0.0	0.0	27.8
1	17596437.01	4847085.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.4	6.1	-2.1	0.0	0.0	19.9	0.0	0.0	20.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
4	17596439.27	4847088.69	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	3.9	0.0	0.0	-1.1
4	17596439.27	4847088.69	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	5.0	0.0	0.0	11.0
4	17596439.27	4847088.69	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.4	0.0	-1.8	0.0	0.0	6.3	0.0	0.0	32.5
4	17596439.27	4847088.69	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.4	0.1	0.8	0.0	0.0	7.4	0.0	0.0	32.3
4	17596439.27	4847088.69	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.4	0.1	0.3	0.0	0.0	10.1	0.0	0.0	40.5
4	17596439.27	4847088.69	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.4	0.2	-1.7	0.0	0.0	12.8	0.0	0.0	43.9
4	17596439.27	4847088.69	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.4	0.5	-2.1	0.0	0.0	15.6	0.0	0.0	37.4
4	17596439.27	4847088.69	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.4	1.7	-2.1	0.0	0.0	18.4	0.0	0.0	28.1
4	17596439.27	4847088.69	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.4	6.1	-2.1	0.0	0.0	19.7	0.0	0.0	20.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
7	17596441.38	4847091.26	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	3.8	0.0	0.0	-1.0
7	17596441.38	4847091.26	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	11.1
7	17596441.38	4847091.26	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.4	0.0	-1.8	0.0	0.0	6.2	0.0	0.0	32.6
7	17596441.38	4847091.26	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.4	0.1	0.8	0.0	0.0	7.3	0.0	0.0	32.4
7	17596441.38	4847091.26	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.4	0.1	0.3	0.0	0.0	10.0	0.0	0.0	40.6
7	17596441.38	4847091.26	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.4	0.2	-1.7	0.0	0.0	12.7	0.0	0.0	43.9
7	17596441.38	4847091.26	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.4	0.5	-2.1	0.0	0.0	15.5	0.0	0.0	37.5
7	17596441.38	4847091.26	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.4	1.7	-2.1	0.0	0.0	18.3	0.0	0.0	28.2
7	17596441.38	4847091.26	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.4	6.2	-2.1	0.0	0.0	19.6	0.0	0.0	20.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
10	17596443.43	4847094.14	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	3.6	0.0	0.0	-0.9
10	17596443.43	4847094.14	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	11.3
10	17596443.43	4847094.14	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.5	0.0	-1.8	0.0	0.0	6.1	0.0	0.0	32.7
10	17596443.43	4847094.14	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.5	0.1	0.8	0.0	0.0	7.2	0.0	0.0	32.4
10	17596443.43	4847094.14	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.5	0.1	0.3	0.0	0.0	9.8	0.0	0.0	40.7
10	17596443.43	4847094.14	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.5	0.2	-1.7	0.0	0.0	12.6	0.0	0.0	44.0
10	17596443.43	4847094.14	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.5	0.5	-2.1	0.0	0.0	15.3	0.0	0.0	37.5
10	17596443.43	4847094.14	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.5	1.7	-2.1	0.0	0.0	18.2	0.0	0.0	28.3
10	17596443.43	4847094.14	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.5	6.2	-2.1	0.0	0.0	19.5	0.0	0.0	20.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
12	17596434.96	4847082.88	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	4.2	0.0	0.0	-1.4

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
12	17596434.96	4847082.88	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	10.7
12	17596434.96	4847082.88	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.5	0.0	-1.8	0.0	0.0	6.7	0.0	0.0	32.1
12	17596434.96	4847082.88	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.5	0.1	0.8	0.0	0.0	7.7	0.0	0.0	31.9
12	17596434.96	4847082.88	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.5	0.1	0.3	0.0	0.0	10.4	0.0	0.0	40.1
12	17596434.96	4847082.88	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.5	0.2	-1.7	0.0	0.0	13.2	0.0	0.0	43.4
12	17596434.96	4847082.88	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.5	0.5	-2.1	0.0	0.0	15.9	0.0	0.0	36.9
12	17596434.96	4847082.88	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.5	1.7	-2.1	0.0	0.0	18.8	0.0	0.0	27.7
12	17596434.96	4847082.88	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.5	6.2	-2.1	0.0	0.0	19.9	0.0	0.0	20.0

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
14	17596432.91	4847080.21	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	4.3	0.0	0.0	-1.6
14	17596432.91	4847080.21	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	5.3	0.0	0.0	10.5
14	17596432.91	4847080.21	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.6	0.0	-1.8	0.0	0.0	6.7	0.0	0.0	32.0
14	17596432.91	4847080.21	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.6	0.1	0.9	0.0	0.0	7.7	0.0	0.0	31.8
14	17596432.91	4847080.21	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.6	0.1	0.3	0.0	0.0	10.4	0.0	0.0	40.0
14	17596432.91	4847080.21	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.6	0.2	-1.7	0.0	0.0	13.2	0.0	0.0	43.3
14	17596432.91	4847080.21	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.6	0.5	-2.1	0.0	0.0	15.9	0.0	0.0	36.9
14	17596432.91	4847080.21	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.6	1.8	-2.1	0.0	0.0	18.8	0.0	0.0	27.6
14	17596432.91	4847080.21	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.6	6.2	-2.1	0.0	0.0	19.9	0.0	0.0	19.8

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
16	17596445.53	4847096.92	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	3.5	0.0	0.0	-0.8
16	17596445.53	4847096.92	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	4.5	0.0	0.0	11.3
16	17596445.53	4847096.92	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.6	0.0	-1.8	0.0	0.0	5.9	0.0	0.0	32.8
16	17596445.53	4847096.92	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.6	0.1	0.9	0.0	0.0	7.0	0.0	0.0	32.5
16	17596445.53	4847096.92	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.6	0.1	0.3	0.0	0.0	9.6	0.0	0.0	40.8
16	17596445.53	4847096.92	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.6	0.2	-1.7	0.0	0.0	12.4	0.0	0.0	44.1
16	17596445.53	4847096.92	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.6	0.5	-2.1	0.0	0.0	15.2	0.0	0.0	37.6
16	17596445.53	4847096.92	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.6	1.8	-2.1	0.0	0.0	18.0	0.0	0.0	28.3
16	17596445.53	4847096.92	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.6	6.3	-2.1	0.0	0.0	19.4	0.0	0.0	20.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
18	17596430.54	4847077.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.7	0.0	-3.0	0.0	0.0	4.4	0.0	0.0	-1.9
18	17596430.54	4847077.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.7	0.0	-3.0	0.0	0.0	5.4	0.0	0.0	10.3
18	17596430.54	4847077.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.7	0.0	-1.8	0.0	0.0	6.8	0.0	0.0	31.8
18	17596430.54	4847077.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.7	0.1	0.9	0.0	0.0	7.7	0.0	0.0	31.7
18	17596430.54	4847077.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.7	0.1	0.4	0.0	0.0	10.3	0.0	0.0	39.9
18	17596430.54	4847077.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.7	0.2	-1.7	0.0	0.0	13.2	0.0	0.0	43.2
18	17596430.54	4847077.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.7	0.5	-2.1	0.0	0.0	15.9	0.0	0.0	36.8
18	17596430.54	4847077.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.7	1.8	-2.1	0.0	0.0	18.7	0.0	0.0	27.5
18	17596430.54	4847077.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.7	6.3	-2.1	0.0	0.0	19.9	0.0	0.0	19.6

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
21	17596447.63	4847099.64	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.7	0.0	-3.0	0.0	0.0	3.3	0.0	0.0	-0.8
21	17596447.63	4847099.64	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.7	0.0	-3.0	0.0	0.0	4.3	0.0	0.0	11.4
21	17596447.63	4847099.64	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.7	0.0	-1.8	0.0	0.0	5.6	0.0	0.0	32.9
21	17596447.63	4847099.64	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.7	0.1	0.9	0.0	0.0	6.7	0.0	0.0	32.6
21	17596447.63	4847099.64	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.7	0.1	0.4	0.0	0.0	9.4	0.0	0.0	40.9
21	17596447.63	4847099.64	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.7	0.2	-1.7	0.0	0.0	12.2	0.0	0.0	44.2
21	17596447.63	4847099.64	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.7	0.5	-2.1	0.0	0.0	14.9	0.0	0.0	37.7
21	17596447.63	4847099.64	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.7	1.8	-2.1	0.0	0.0	17.8	0.0	0.0	28.4
21	17596447.63	4847099.64	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.7	6.3	-2.1	0.0	0.0	19.3	0.0	0.0	20.2

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
23	17596428.59	4847074.76	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.8	0.0	-3.0	0.0	0.0	4.5	0.0	0.0	-2.1
23	17596428.59	4847074.76	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.8	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	10.1
23	17596428.59	4847074.76	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.8	0.0	-1.8	0.0	0.0	6.8	0.0	0.0	31.6
23	17596428.59	4847074.76	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.8	0.1	1.0	0.0	0.0	7.6	0.0	0.0	31.6
23	17596428.59	4847074.76	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.8	0.1	0.4	0.0	0.0	10.2	0.0	0.0	39.8
23	17596428.59	4847074.76	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.8	0.2	-1.6	0.0	0.0	13.1	0.0	0.0	43.1
23	17596428.59	4847074.76	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.8	0.5	-2.1	0.0	0.0	15.8	0.0	0.0	36.7
23	17596428.59	4847074.76	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.8	1.8	-2.1	0.0	0.0	18.6	0.0	0.0	27.4
23	17596428.59	4847074.76	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.8	6.4	-2.1	0.0	0.0	19.9	0.0	0.0	19.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
26	17596449.88	4847102.47	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	3.1	0.0	0.0	-0.8
26	17596449.88	4847102.47	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	4.1	0.0	0.0	11.4
26	17596449.88	4847102.47	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	45.9	0.0	-1.8	0.0	0.0	5.4	0.0	0.0	32.9
26	17596449.88	4847102.47	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	45.9	0.1	1.0	0.0	0.0	6.6	0.0	0.0	32.5
26	17596449.88	4847102.47	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	45.9	0.1	0.4	0.0	0.0	9.2	0.0	0.0	40.8
26	17596449.88	4847102.47	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	45.9	0.2	-1.6	0.0	0.0	12.1	0.0	0.0	44.1
26	17596449.88	4847102.47	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	45.9	0.5	-2.1	0.0	0.0	14.8	0.0	0.0	37.6
26	17596449.88	4847102.47	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	45.9	1.8	-2.1	0.0	0.0	17.7	0.0	0.0	28.3
26	17596449.88	4847102.47	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	45.9	6.5	-2.1	0.0	0.0	19.1	0.0	0.0	20.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
29	17596426.33	4847071.98	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.0	0.0	-3.0	0.0	0.0	4.5	0.0	0.0	-2.3
29	17596426.33	4847071.98	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.0	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	9.9
29	17596426.33	4847071.98	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.0	0.0	-1.7	0.0	0.0	6.8	0.0	0.0	31.5
29	17596426.33	4847071.98	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.0	0.1	1.1	0.0	0.0	7.4	0.0	0.0	31.4
29	17596426.33	4847071.98	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.0	0.1	0.5	0.0	0.0	10.1	0.0	0.0	39.7
29	17596426.33	4847071.98	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.0	0.2	-1.6	0.0	0.0	13.0	0.0	0.0	43.0
29	17596426.33	4847071.98	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.0	0.5	-2.0	0.0	0.0	15.7	0.0	0.0	36.6
29	17596426.33	4847071.98	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.0	1.8	-2.0	0.0	0.0	18.6	0.0	0.0	27.3
29	17596426.33	4847071.98	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.0	6.6	-2.0	0.0	0.0	19.9	0.0	0.0	19.0

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
32	17596452.02	4847105.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.1	0.0	-3.0	0.0	0.0	3.0	0.0	0.0	-0.8
32	17596452.02	4847105.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.1	0.0	-3.0	0.0	0.0	3.9	0.0	0.0	11.4
32	17596452.02	4847105.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.1	0.0	-1.7	0.0	0.0	5.2	0.0	0.0	32.9
32	17596452.02	4847105.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.1	0.1	1.1	0.0	0.0	6.4	0.0	0.0	32.4
32	17596452.02	4847105.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.1	0.1	0.5	0.0	0.0	9.0	0.0	0.0	40.7
32	17596452.02	4847105.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.1	0.2	-1.6	0.0	0.0	11.9	0.0	0.0	44.0
32	17596452.02	4847105.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.1	0.5	-2.0	0.0	0.0	14.7	0.0	0.0	37.6
32	17596452.02	4847105.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.1	1.9	-2.0	0.0	0.0	17.6	0.0	0.0	28.2
32	17596452.02	4847105.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.1	6.6	-2.0	0.0	0.0	18.9	0.0	0.0	19.9

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
36	17596424.13	4847069.03	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.2	0.0	-3.0	0.0	0.0	4.6	0.0	0.0	-2.6
36	17596424.13	4847069.03	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.2	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	9.7
36	17596424.13	4847069.03	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.2	0.0	-1.7	0.0	0.0	6.8	0.0	0.0	31.2
36	17596424.13	4847069.03	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.2	0.1	1.2	0.0	0.0	7.3	0.0	0.0	31.3
36	17596424.13	4847069.03	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.2	0.1	0.6	0.0	0.0	9.9	0.0	0.0	39.6
36	17596424.13	4847069.03	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.2	0.2	-1.6	0.0	0.0	12.9	0.0	0.0	42.8
36	17596424.13	4847069.03	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.2	0.6	-2.0	0.0	0.0	15.6	0.0	0.0	36.5
36	17596424.13	4847069.03	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.2	1.9	-2.0	0.0	0.0	18.4	0.0	0.0	27.1
36	17596424.13	4847069.03	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.2	6.7	-2.0	0.0	0.0	20.0	0.0	0.0	18.6

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
39	17596454.16	4847108.04	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.3	0.0	-3.0	0.0	0.0	2.8	0.0	0.0	-0.9
39	17596454.16	4847108.04	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.3	0.0	-3.0	0.0	0.0	3.7	0.0	0.0	11.4
39	17596454.16	4847108.04	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.3	0.0	-1.7	0.0	0.0	5.0	0.0	0.0	32.9
39	17596454.16	4847108.04	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.3	0.1	1.2	0.0	0.0	6.1	0.0	0.0	32.4
39	17596454.16	4847108.04	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.3	0.1	0.6	0.0	0.0	8.7	0.0	0.0	40.7
39	17596454.16	4847108.04	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.3	0.2	-1.6	0.0	0.0	11.6	0.0	0.0	44.1
39	17596454.16	4847108.04	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.3	0.6	-2.0	0.0	0.0	14.4	0.0	0.0	37.6
39	17596454.16	4847108.04	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.3	1.9	-2.0	0.0	0.0	17.3	0.0	0.0	28.2
39	17596454.16	4847108.04	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.3	6.8	-2.0	0.0	0.0	18.6	0.0	0.0	19.8

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
42	17596422.17	4847066.30	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.5	0.0	-3.0	0.0	0.0	4.6	0.0	0.0	-2.9
42	17596422.17	4847066.30	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.5	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	9.4
42	17596422.17	4847066.30	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.5	0.0	-1.7	0.0	0.0	6.7	0.0	0.0	31.0
42	17596422.17	4847066.30	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.5	0.1	1.3	0.0	0.0	7.1	0.0	0.0	31.1
42	17596422.17	4847066.30	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.5	0.1	0.7	0.0	0.0	9.8	0.0	0.0	39.4
42	17596422.17	4847066.30	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.5	0.2	-1.6	0.0	0.0	12.8	0.0	0.0	42.7
42	17596422.17	4847066.30	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.5	0.6	-2.0	0.0	0.0	15.5	0.0	0.0	36.3
42	17596422.17	4847066.30	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.5	1.9	-2.0	0.0	0.0	18.3	0.0	0.0	26.9
42	17596422.17	4847066.30	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.5	6.9	-2.0	0.0	0.0	20.0	0.0	0.0	18.2

Point Source, ISO 9613, Name: "Loading", ID: "LOAD"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
45	17596419.37	4847044.20	2.00	0	DEN	32	61.0	0.0	0.0	0.0	0.0	49.0	0.0	-3.0	0.0	0.0	4.5	0.0	0.0	10.5
45	17596419.37	4847044.20	2.00	0	DEN	63	71.1	0.0	0.0	0.0	0.0	49.0	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	19.9
45	17596419.37	4847044.20	2.00	0	DEN	125	96.5	0.0	0.0	0.0	0.0	49.0	0.0	-1.4	0.0	0.0	6.1	0.0	0.0	42.8
45	17596419.37	4847044.20	2.00	0	DEN	250	103.8	0.0	0.0	0.0	0.0	49.0	0.1	2.0	0.0	0.0	5.5	0.0	0.0	47.3
45	17596419.37	4847044.20	2.00	0	DEN	500	97.5	0.0	0.0	0.0	0.0	49.0	0.2	0.5	0.0	0.0	8.6	0.0	0.0	39.3
45	17596419.37	4847044.20	2.00	0	DEN	1000	95.4	0.0	0.0	0.0	0.0	49.0	0.3	-1.6	0.0	0.0	11.3	0.0	0.0	36.5
45	17596419.37	4847044.20	2.00	0	DEN	2000	92.8	0.0	0.0	0.0	0.0	49.0	0.8	-1.9	0.0	0.0	13.8	0.0	0.0	31.2
45	17596419.37	4847044.20	2.00	0	DEN	4000	86.7	0.0	0.0	0.0	0.0	49.0	2.6	-1.9	0.0	0.0	16.5	0.0	0.0	20.6
45	17596419.37	4847044.20	2.00	0	DEN	8000	80.4	0.0	0.0	0.0	0.0	49.0	9.2	-1.9	0.0	0.0	19.4	0.0	0.0	4.7

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
47	17596420.17	4847063.55	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	46.7	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	-3.2
47	17596420.17	4847063.55	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	46.7	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	9.2
47	17596420.17	4847063.55	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	46.7	0.0	-1.7	0.0	0.0	6.7	0.0	0.0	30.7
47	17596420.17	4847063.55	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	46.7	0.1	1.4	0.0	0.0	6.9	0.0	0.0	30.9
47	17596420.17	4847063.55	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	46.7	0.1	0.7	0.0	0.0	9.6	0.0	0.0	39.3
47	17596420.17	4847063.55	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	46.7	0.2	-1.5	0.0	0.0	12.7	0.0	0.0	42.5
47	17596420.17	4847063.55	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	46.7	0.6	-2.0	0.0	0.0	15.3	0.0	0.0	36.2
47	17596420.17	4847063.55	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	46.7	2.0	-2.0	0.0	0.0	18.2	0.0	0.0	26.7
47	17596420.17	4847063.55	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	46.7	7.1	-2.0	0.0	0.0	20.0	0.0	0.0	17.7

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
50	17596417.75	4847060.61	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	47.0	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	-3.4
50	17596417.75	4847060.61	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	47.0	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	8.9
50	17596417.75	4847060.61	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	47.0	0.0	-1.6	0.0	0.0	6.6	0.0	0.0	30.5
50	17596417.75	4847060.61	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	47.0	0.1	1.5	0.0	0.0	6.7	0.0	0.0	30.7
50	17596417.75	4847060.61	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	47.0	0.1	0.9	0.0	0.0	9.3	0.0	0.0	39.1
50	17596417.75	4847060.61	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	47.0	0.2	-1.5	0.0	0.0	12.5	0.0	0.0	42.4
50	17596417.75	4847060.61	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	47.0	0.6	-2.0	0.0	0.0	15.2	0.0	0.0	36.0
50	17596417.75	4847060.61	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	47.0	2.1	-2.0	0.0	0.0	18.0	0.0	0.0	26.5
50	17596417.75	4847060.61	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	47.0	7.3	-2.0	0.0	0.0	20.0	0.0	0.0	17.2

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
53	17596415.84	4847057.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	47.2	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	-3.7
53	17596415.84	4847057.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	47.2	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	8.6
53	17596415.84	4847057.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	47.2	0.0	-1.6	0.0	0.0	6.6	0.0	0.0	30.2
53	17596415.84	4847057.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	47.2	0.1	1.7	0.0	0.0	6.5	0.0	0.0	30.6
53	17596415.84	4847057.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	47.2	0.1	1.0	0.0	0.0	9.1	0.0	0.0	39.0
53	17596415.84	4847057.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	47.2	0.2	-1.5	0.0	0.0	12.4	0.0	0.0	42.2
53	17596415.84	4847057.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	47.2	0.6	-2.0	0.0	0.0	15.0	0.0	0.0	35.9
53	17596415.84	4847057.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	47.2	2.1	-2.0	0.0	0.0	17.9	0.0	0.0	26.4
53	17596415.84	4847057.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	47.2	7.6	-2.0	0.0	0.0	20.0	0.0	0.0	16.7

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
56	17596413.54	4847055.06	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	47.5	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	-4.0
56	17596413.54	4847055.06	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	47.5	0.0	-3.0	0.0	0.0	5.5	0.0	0.0	8.4
56	17596413.54	4847055.06	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	47.5	0.0	-1.6	0.0	0.0	6.5	0.0	0.0	30.0
56	17596413.54	4847055.06	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	47.5	0.1	1.8	0.0	0.0	6.2	0.0	0.0	30.4
56	17596413.54	4847055.06	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	47.5	0.1	1.1	0.0	0.0	8.9	0.0	0.0	38.8
56	17596413.54	4847055.06	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	47.5	0.2	-1.4	0.0	0.0	12.3	0.0	0.0	42.0
56	17596413.54	4847055.06	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	47.5	0.6	-1.9	0.0	0.0	14.9	0.0	0.0	35.7
56	17596413.54	4847055.06	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	47.5	2.2	-1.9	0.0	0.0	17.7	0.0	0.0	26.2
56	17596413.54	4847055.06	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	47.5	7.8	-1.9	0.0	0.0	20.0	0.0	0.0	16.1

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Receiver
 Name: R3 - Facade
 ID: R3
 X: 17596313.61 m
 Y: 4847149.13 m
 Z: 2.00 m

Point Source, ISO 9613, Name: "Loading", ID: "LOAD"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
2	17596419.37	4847044.20	2.00	0	DEN	32	61.0	0.0	0.0	0.0	0.0	54.5	0.0	-3.6	0.0	0.0	4.8	0.0	0.0	5.3
2	17596419.37	4847044.20	2.00	0	DEN	63	71.1	0.0	0.0	0.0	0.0	54.5	0.0	-3.6	0.0	0.0	4.9	0.0	0.0	15.3
2	17596419.37	4847044.20	2.00	0	DEN	125	96.5	0.0	0.0	0.0	0.0	54.5	0.1	0.6	0.0	0.0	4.4	0.0	0.0	37.0
2	17596419.37	4847044.20	2.00	0	DEN	250	103.8	0.0	0.0	0.0	0.0	54.5	0.2	6.6	0.0	0.0	0.0	0.0	0.0	42.6
2	17596419.37	4847044.20	2.00	0	DEN	500	97.5	0.0	0.0	0.0	0.0	54.5	0.3	1.8	0.0	0.0	3.7	0.0	0.0	37.2
2	17596419.37	4847044.20	2.00	0	DEN	1000	95.4	0.0	0.0	0.0	0.0	54.5	0.5	-0.8	0.0	0.0	6.2	0.0	0.0	35.0
2	17596419.37	4847044.20	2.00	0	DEN	2000	92.8	0.0	0.0	0.0	0.0	54.5	1.4	-1.0	0.0	0.0	7.3	0.0	0.0	30.6
2	17596419.37	4847044.20	2.00	0	DEN	4000	86.7	0.0	0.0	0.0	0.0	54.5	4.9	-1.0	0.0	0.0	8.9	0.0	0.0	19.4
2	17596419.37	4847044.20	2.00	0	DEN	8000	80.4	0.0	0.0	0.0	0.0	54.5	17.4	-1.0	0.0	0.0	11.0	0.0	0.0	-1.5

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
5	17596424.13	4847069.03	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
5	17596424.13	4847069.03	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.2	0.0	0.0	3.6
5	17596424.13	4847069.03	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.4
5	17596424.13	4847069.03	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
5	17596424.13	4847069.03	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
5	17596424.13	4847069.03	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.7	0.0	0.0	38.7
5	17596424.13	4847069.03	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.5
5	17596424.13	4847069.03	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
5	17596424.13	4847069.03	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.8	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
8	17596422.17	4847066.30	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
8	17596422.17	4847066.30	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.2	0.0	0.0	3.5
8	17596422.17	4847066.30	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.4
8	17596422.17	4847066.30	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
8	17596422.17	4847066.30	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
8	17596422.17	4847066.30	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.7	0.0	0.0	38.7
8	17596422.17	4847066.30	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.5
8	17596422.17	4847066.30	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
8	17596422.17	4847066.30	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.8	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
13	17596426.33	4847071.98	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
13	17596426.33	4847071.98	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.2	0.0	0.0	3.5
13	17596426.33	4847071.98	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.4
13	17596426.33	4847071.98	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
13	17596426.33	4847071.98	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
13	17596426.33	4847071.98	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.7	0.0	0.0	38.7
13	17596426.33	4847071.98	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.4
13	17596426.33	4847071.98	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
13	17596426.33	4847071.98	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.8	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
20	17596420.17	4847063.55	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
20	17596420.17	4847063.55	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.1	0.0	0.0	3.5
20	17596420.17	4847063.55	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.4
20	17596420.17	4847063.55	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
20	17596420.17	4847063.55	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
20	17596420.17	4847063.55	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.7	0.0	0.0	38.7
20	17596420.17	4847063.55	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.5
20	17596420.17	4847063.55	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
20	17596420.17	4847063.55	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.8	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
22	17596417.75	4847060.61	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
22	17596417.75	4847060.61	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.2	0.0	0.0	3.5
22	17596417.75	4847060.61	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.4
22	17596417.75	4847060.61	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
22	17596417.75	4847060.61	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
22	17596417.75	4847060.61	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.7	0.0	0.0	38.7
22	17596417.75	4847060.61	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.5
22	17596417.75	4847060.61	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
22	17596417.75	4847060.61	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.8	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
24	17596428.59	4847074.76	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
24	17596428.59	4847074.76	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.1	0.0	0.0	3.5
24	17596428.59	4847074.76	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.3
24	17596428.59	4847074.76	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
24	17596428.59	4847074.76	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
24	17596428.59	4847074.76	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.7	0.0	0.0	38.7
24	17596428.59	4847074.76	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.5
24	17596428.59	4847074.76	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
24	17596428.59	4847074.76	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.8	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
28	17596415.84	4847057.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
28	17596415.84	4847057.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.1	0.0	0.0	3.5
28	17596415.84	4847057.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.3
28	17596415.84	4847057.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
28	17596415.84	4847057.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
28	17596415.84	4847057.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.6	0.0	0.0	38.7
28	17596415.84	4847057.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.5
28	17596415.84	4847057.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
28	17596415.84	4847057.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.7	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
31	17596430.54	4847077.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
31	17596430.54	4847077.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.7	0.0	-4.0	0.0	0.0	5.1	0.0	0.0	3.5
31	17596430.54	4847077.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.7	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.3
31	17596430.54	4847077.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.7	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
31	17596430.54	4847077.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.7	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
31	17596430.54	4847077.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.7	0.5	-1.0	0.0	0.0	8.6	0.0	0.0	38.7
31	17596430.54	4847077.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.7	1.3	-1.4	0.0	0.0	10.7	0.0	0.0	32.4
31	17596430.54	4847077.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.7	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
31	17596430.54	4847077.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.7	16.0	-1.4	0.0	0.0	15.7	0.0	0.0	5.3

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
34	17596413.54	4847055.06	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.8	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-9.5
34	17596413.54	4847055.06	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.8	0.0	-4.0	0.0	0.0	5.1	0.0	0.0	3.5
34	17596413.54	4847055.06	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.8	0.1	-0.1	0.0	0.0	5.5	0.0	0.0	23.3
34	17596413.54	4847055.06	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.8	0.1	5.3	0.0	0.0	0.8	0.0	0.0	26.0
34	17596413.54	4847055.06	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.8	0.3	1.9	0.0	0.0	5.2	0.0	0.0	35.3
34	17596413.54	4847055.06	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.8	0.5	-1.0	0.0	0.0	8.6	0.0	0.0	38.7
34	17596413.54	4847055.06	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.8	1.3	-1.4	0.0	0.0	10.6	0.0	0.0	32.5
34	17596413.54	4847055.06	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.8	4.5	-1.4	0.0	0.0	13.1	0.0	0.0	21.7
34	17596413.54	4847055.06	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.8	16.0	-1.4	0.0	0.0	15.7	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
37	17596432.91	4847080.21	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.8	0.0	-4.0	0.0	0.0	4.2	0.0	0.0	-8.8
37	17596432.91	4847080.21	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.8	0.0	-4.0	0.0	0.0	4.7	0.0	0.0	3.9
37	17596432.91	4847080.21	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.8	0.1	-0.1	0.0	0.0	5.3	0.0	0.0	23.5
37	17596432.91	4847080.21	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.8	0.1	5.3	0.0	0.0	0.7	0.0	0.0	26.0
37	17596432.91	4847080.21	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.8	0.3	1.9	0.0	0.0	5.1	0.0	0.0	35.3
37	17596432.91	4847080.21	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.8	0.5	-1.0	0.0	0.0	8.6	0.0	0.0	38.7
37	17596432.91	4847080.21	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.8	1.3	-1.4	0.0	0.0	10.6	0.0	0.0	32.5
37	17596432.91	4847080.21	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.8	4.5	-1.4	0.0	0.0	13.0	0.0	0.0	21.7
37	17596432.91	4847080.21	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.8	16.1	-1.4	0.0	0.0	15.7	0.0	0.0	5.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
40	17596434.96	4847082.88	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.8	0.0	-4.0	0.0	0.0	4.1	0.0	0.0	-8.7
40	17596434.96	4847082.88	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.8	0.0	-4.0	0.0	0.0	4.6	0.0	0.0	4.0
40	17596434.96	4847082.88	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.8	0.1	-0.1	0.0	0.0	5.2	0.0	0.0	23.5
40	17596434.96	4847082.88	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.8	0.1	5.3	0.0	0.0	0.7	0.0	0.0	26.0
40	17596434.96	4847082.88	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.8	0.3	1.9	0.0	0.0	5.1	0.0	0.0	35.3
40	17596434.96	4847082.88	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.8	0.5	-1.0	0.0	0.0	8.6	0.0	0.0	38.7
40	17596434.96	4847082.88	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.8	1.3	-1.4	0.0	0.0	10.6	0.0	0.0	32.5
40	17596434.96	4847082.88	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.8	4.5	-1.4	0.0	0.0	13.0	0.0	0.0	21.7
40	17596434.96	4847082.88	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.8	16.2	-1.4	0.0	0.0	15.6	0.0	0.0	5.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
43	17596437.01	4847085.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.8	0.0	-4.1	0.0	0.0	3.9	0.0	0.0	-8.5
43	17596437.01	4847085.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.8	0.0	-4.1	0.0	0.0	4.5	0.0	0.0	4.1
43	17596437.01	4847085.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.8	0.1	-0.1	0.0	0.0	5.1	0.0	0.0	23.6
43	17596437.01	4847085.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.8	0.1	5.3	0.0	0.0	0.7	0.0	0.0	26.0
43	17596437.01	4847085.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.8	0.3	1.9	0.0	0.0	5.1	0.0	0.0	35.3
43	17596437.01	4847085.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.8	0.5	-1.0	0.0	0.0	8.6	0.0	0.0	38.7
43	17596437.01	4847085.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.8	1.3	-1.4	0.0	0.0	10.6	0.0	0.0	32.4
43	17596437.01	4847085.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.8	4.5	-1.4	0.0	0.0	13.0	0.0	0.0	21.6
43	17596437.01	4847085.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.8	16.2	-1.4	0.0	0.0	15.6	0.0	0.0	5.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
46	17596439.27	4847088.69	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.9	0.0	-4.1	0.0	0.0	3.7	0.0	0.0	-8.3
46	17596439.27	4847088.69	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.9	0.0	-4.1	0.0	0.0	4.3	0.0	0.0	4.3
46	17596439.27	4847088.69	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.9	0.1	-0.1	0.0	0.0	4.9	0.0	0.0	23.7
46	17596439.27	4847088.69	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.9	0.1	5.3	0.0	0.0	0.6	0.0	0.0	26.0
46	17596439.27	4847088.69	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.9	0.3	1.9	0.0	0.0	5.0	0.0	0.0	35.3
46	17596439.27	4847088.69	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.9	0.5	-1.0	0.0	0.0	8.4	0.0	0.0	38.8
46	17596439.27	4847088.69	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.9	1.3	-1.4	0.0	0.0	10.4	0.0	0.0	32.5
46	17596439.27	4847088.69	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.9	4.6	-1.4	0.0	0.0	12.8	0.0	0.0	21.7
46	17596439.27	4847088.69	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.9	16.3	-1.4	0.0	0.0	15.5	0.0	0.0	5.2

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
49	17596441.38	4847091.26	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	53.9	0.0	-4.1	0.0	0.0	3.4	0.0	0.0	-8.1
49	17596441.38	4847091.26	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	53.9	0.0	-4.1	0.0	0.0	4.1	0.0	0.0	4.5
49	17596441.38	4847091.26	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	53.9	0.1	-0.1	0.0	0.0	4.8	0.0	0.0	23.9
49	17596441.38	4847091.26	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	53.9	0.1	5.3	0.0	0.0	0.6	0.0	0.0	26.0
49	17596441.38	4847091.26	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	53.9	0.3	1.9	0.0	0.0	4.9	0.0	0.0	35.4
49	17596441.38	4847091.26	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	53.9	0.5	-1.0	0.0	0.0	8.3	0.0	0.0	38.8
49	17596441.38	4847091.26	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	53.9	1.4	-1.4	0.0	0.0	10.3	0.0	0.0	32.6
49	17596441.38	4847091.26	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	53.9	4.6	-1.4	0.0	0.0	12.7	0.0	0.0	21.7
49	17596441.38	4847091.26	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	53.9	16.4	-1.4	0.0	0.0	15.4	0.0	0.0	5.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
52	17596443.43	4847094.14	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	54.0	0.0	-4.1	0.0	0.0	3.1	0.0	0.0	-7.8
52	17596443.43	4847094.14	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	54.0	0.0	-4.1	0.0	0.0	3.7	0.0	0.0	4.7
52	17596443.43	4847094.14	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	54.0	0.1	-0.1	0.0	0.0	4.5	0.0	0.0	24.1
52	17596443.43	4847094.14	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	54.0	0.1	5.4	0.0	0.0	0.5	0.0	0.0	26.0
52	17596443.43	4847094.14	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	54.0	0.3	1.9	0.0	0.0	4.8	0.0	0.0	35.4
52	17596443.43	4847094.14	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	54.0	0.5	-1.0	0.0	0.0	8.2	0.0	0.0	38.9
52	17596443.43	4847094.14	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	54.0	1.4	-1.4	0.0	0.0	10.2	0.0	0.0	32.7
52	17596443.43	4847094.14	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	54.0	4.6	-1.4	0.0	0.0	12.6	0.0	0.0	21.8
52	17596443.43	4847094.14	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	54.0	16.5	-1.4	0.0	0.0	15.3	0.0	0.0	5.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
55	17596445.53	4847096.92	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	54.0	0.0	-4.1	0.0	0.0	2.7	0.0	0.0	-7.5
55	17596445.53	4847096.92	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	54.0	0.0	-4.1	0.0	0.0	3.3	0.0	0.0	5.1
55	17596445.53	4847096.92	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	54.0	0.1	-0.1	0.0	0.0	4.1	0.0	0.0	24.4
55	17596445.53	4847096.92	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	54.0	0.1	5.4	0.0	0.0	0.4	0.0	0.0	26.1
55	17596445.53	4847096.92	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	54.0	0.3	1.9	0.0	0.0	4.6	0.0	0.0	35.5
55	17596445.53	4847096.92	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	54.0	0.5	-1.0	0.0	0.0	7.9	0.0	0.0	39.1
55	17596445.53	4847096.92	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	54.0	1.4	-1.4	0.0	0.0	10.0	0.0	0.0	32.8
55	17596445.53	4847096.92	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	54.0	4.6	-1.4	0.0	0.0	12.4	0.0	0.0	21.9
55	17596445.53	4847096.92	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	54.0	16.6	-1.4	0.0	0.0	15.1	0.0	0.0	5.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
57	17596447.63	4847099.64	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	54.1	0.0	-4.1	0.0	0.0	2.4	0.0	0.0	-7.2
57	17596447.63	4847099.64	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	54.1	0.0	-4.1	0.0	0.0	2.8	0.0	0.0	5.6
57	17596447.63	4847099.64	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	54.1	0.1	-0.1	0.0	0.0	3.5	0.0	0.0	24.9
57	17596447.63	4847099.64	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	54.1	0.1	5.4	0.0	0.0	0.1	0.0	0.0	26.2
57	17596447.63	4847099.64	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	54.1	0.3	1.9	0.0	0.0	4.2	0.0	0.0	35.8
57	17596447.63	4847099.64	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	54.1	0.5	-1.0	0.0	0.0	7.5	0.0	0.0	39.5
57	17596447.63	4847099.64	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	54.1	1.4	-1.4	0.0	0.0	9.6	0.0	0.0	33.1
57	17596447.63	4847099.64	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	54.1	4.7	-1.4	0.0	0.0	12.0	0.0	0.0	22.2
57	17596447.63	4847099.64	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	54.1	16.7	-1.4	0.0	0.0	14.7	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
59	17596449.88	4847102.47	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	54.2	0.0	-4.1	0.0	0.0	2.0	0.0	0.0	-6.9
59	17596449.88	4847102.47	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	54.2	0.0	-4.1	0.0	0.0	2.3	0.0	0.0	6.1
59	17596449.88	4847102.47	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	54.2	0.1	-0.1	0.0	0.0	2.7	0.0	0.0	25.7
59	17596449.88	4847102.47	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	54.2	0.2	5.4	0.0	0.0	0.0	0.0	0.0	26.3
59	17596449.88	4847102.47	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	54.2	0.3	1.9	0.0	0.0	3.3	0.0	0.0	36.7
59	17596449.88	4847102.47	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	54.2	0.5	-1.0	0.0	0.0	6.2	0.0	0.0	40.7
59	17596449.88	4847102.47	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	54.2	1.4	-1.4	0.0	0.0	8.3	0.0	0.0	34.3
59	17596449.88	4847102.47	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	54.2	4.7	-1.4	0.0	0.0	10.7	0.0	0.0	23.4
59	17596449.88	4847102.47	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	54.2	16.8	-1.4	0.0	0.0	13.4	0.0	0.0	6.5

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
61	17596452.02	4847105.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	54.2	0.0	-4.1	0.0	0.0	1.8	0.0	0.0	-6.7
61	17596452.02	4847105.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	54.2	0.0	-4.1	0.0	0.0	1.9	0.0	0.0	6.4
61	17596452.02	4847105.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	54.2	0.1	-0.1	0.0	0.0	2.1	0.0	0.0	26.3
61	17596452.02	4847105.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	54.2	0.2	5.4	0.0	0.0	0.0	0.0	0.0	26.2
61	17596452.02	4847105.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	54.2	0.3	1.9	0.0	0.0	1.9	0.0	0.0	38.1
61	17596452.02	4847105.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	54.2	0.5	-1.0	0.0	0.0	3.6	0.0	0.0	43.3
61	17596452.02	4847105.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	54.2	1.4	-1.4	0.0	0.0	4.7	0.0	0.0	37.9
61	17596452.02	4847105.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	54.2	4.8	-1.4	0.0	0.0	6.1	0.0	0.0	27.9
61	17596452.02	4847105.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	54.2	17.0	-1.4	0.0	0.0	8.0	0.0	0.0	11.7

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
63	17596454.16	4847108.04	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	54.3	0.0	-4.2	0.0	0.0	0.0	0.0	0.0	-5.0
63	17596454.16	4847108.04	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	54.3	0.0	-4.2	0.0	0.0	0.0	0.0	0.0	8.2
63	17596454.16	4847108.04	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	54.3	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	28.2
63	17596454.16	4847108.04	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	54.3	0.2	5.4	0.0	0.0	0.0	0.0	0.0	26.2
63	17596454.16	4847108.04	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	54.3	0.3	1.9	0.0	0.0	0.0	0.0	0.0	39.9
63	17596454.16	4847108.04	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	54.3	0.5	-1.0	0.0	0.0	0.0	0.0	0.0	46.8
63	17596454.16	4847108.04	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	54.3	1.4	-1.4	0.0	0.0	0.0	0.0	0.0	42.5
63	17596454.16	4847108.04	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	54.3	4.8	-1.4	0.0	0.0	0.0	0.0	0.0	33.9
63	17596454.16	4847108.04	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	54.3	17.1	-1.4	0.0	0.0	0.0	0.0	0.0	19.5

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Receiver
 Name: R4 - Rear
 ID: R4
 X: 17596340.84 m
 Y: 4847137.58 m
 Z: 1.50 m

Point Source, ISO 9613, Name: "Loading", ID: "LOAD"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
3	17596419.37	4847044.20	2.00	0	DEN	32	61.0	0.0	0.0	0.0	0.0	52.7	0.0	-3.4	0.0	0.0	4.9	0.0	0.0	6.8
3	17596419.37	4847044.20	2.00	0	DEN	63	71.1	0.0	0.0	0.0	0.0	52.7	0.0	-3.4	0.0	0.0	5.0	0.0	0.0	16.8
3	17596419.37	4847044.20	2.00	0	DEN	125	96.5	0.0	0.0	0.0	0.0	52.7	0.1	0.2	0.0	0.0	5.0	0.0	0.0	38.5
3	17596419.37	4847044.20	2.00	0	DEN	250	103.8	0.0	0.0	0.0	0.0	52.7	0.1	7.2	0.0	0.0	0.0	0.0	0.0	43.8
3	17596419.37	4847044.20	2.00	0	DEN	500	97.5	0.0	0.0	0.0	0.0	52.7	0.2	4.2	0.0	0.0	2.1	0.0	0.0	38.3
3	17596419.37	4847044.20	2.00	0	DEN	1000	95.4	0.0	0.0	0.0	0.0	52.7	0.4	-0.4	0.0	0.0	7.3	0.0	0.0	35.3
3	17596419.37	4847044.20	2.00	0	DEN	2000	92.8	0.0	0.0	0.0	0.0	52.7	1.2	-1.0	0.0	0.0	8.9	0.0	0.0	31.0
3	17596419.37	4847044.20	2.00	0	DEN	4000	86.7	0.0	0.0	0.0	0.0	52.7	4.0	-1.0	0.0	0.0	11.0	0.0	0.0	20.0
3	17596419.37	4847044.20	2.00	0	DEN	8000	80.4	0.0	0.0	0.0	0.0	52.7	14.3	-1.0	0.0	0.0	13.5	0.0	0.0	0.9

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
6	17596426.33	4847071.98	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.6	0.0	-3.9	0.0	0.0	5.1	0.0	0.0	-7.6
6	17596426.33	4847071.98	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.6	0.0	-3.9	0.0	0.0	5.3	0.0	0.0	5.3
6	17596426.33	4847071.98	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.6	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.6
6	17596426.33	4847071.98	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.6	0.1	5.8	0.0	0.0	0.8	0.0	0.0	27.6
6	17596426.33	4847071.98	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.6	0.2	4.2	0.0	0.0	3.8	0.0	0.0	36.6
6	17596426.33	4847071.98	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.6	0.4	-0.5	0.0	0.0	9.8	0.0	0.0	39.3
6	17596426.33	4847071.98	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.6	1.0	-1.4	0.0	0.0	12.0	0.0	0.0	33.5
6	17596426.33	4847071.98	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.6	3.5	-1.4	0.0	0.0	14.6	0.0	0.0	23.2
6	17596426.33	4847071.98	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.6	12.6	-1.4	0.0	0.0	17.4	0.0	0.0	9.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
9	17596424.13	4847069.03	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.1	0.0	0.0	-7.6
9	17596424.13	4847069.03	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.3	0.0	0.0	5.3
9	17596424.13	4847069.03	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.6
9	17596424.13	4847069.03	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.9	0.0	0.0	0.8	0.0	0.0	27.6
9	17596424.13	4847069.03	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.8	0.0	0.0	36.6
9	17596424.13	4847069.03	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.5	0.0	0.0	9.8	0.0	0.0	39.3
9	17596424.13	4847069.03	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.0	-1.4	0.0	0.0	12.0	0.0	0.0	33.5
9	17596424.13	4847069.03	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.5	-1.4	0.0	0.0	14.6	0.0	0.0	23.2
9	17596424.13	4847069.03	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.6	-1.4	0.0	0.0	17.4	0.0	0.0	9.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
11	17596428.59	4847074.76	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.1	0.0	0.0	-7.6
11	17596428.59	4847074.76	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.3	0.0	0.0	5.3
11	17596428.59	4847074.76	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.6
11	17596428.59	4847074.76	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.8	0.0	0.0	0.8	0.0	0.0	27.6
11	17596428.59	4847074.76	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.8	0.0	0.0	36.6
11	17596428.59	4847074.76	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.6	0.0	0.0	9.8	0.0	0.0	39.3
11	17596428.59	4847074.76	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.0	-1.4	0.0	0.0	12.0	0.0	0.0	33.5
11	17596428.59	4847074.76	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.5	-1.4	0.0	0.0	14.6	0.0	0.0	23.2
11	17596428.59	4847074.76	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.6	-1.4	0.0	0.0	17.4	0.0	0.0	9.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
15	17596430.54	4847077.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	4.4	0.0	0.0	-7.0

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
15	17596430.54	4847077.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.0	0.0	0.0	5.7
15	17596430.54	4847077.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.6	0.0	0.0	25.7
15	17596430.54	4847077.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.9	0.0	0.0	0.8	0.0	0.0	27.6
15	17596430.54	4847077.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.8	0.0	0.0	36.6
15	17596430.54	4847077.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.6	0.0	0.0	9.7	0.0	0.0	39.4
15	17596430.54	4847077.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.0	-1.4	0.0	0.0	12.0	0.0	0.0	33.5
15	17596430.54	4847077.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.5	-1.4	0.0	0.0	14.6	0.0	0.0	23.2
15	17596430.54	4847077.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.6	-1.4	0.0	0.0	17.3	0.0	0.0	9.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
17	17596422.17	4847066.30	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.1	0.0	0.0	-7.6
17	17596422.17	4847066.30	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.3	0.0	0.0	5.3
17	17596422.17	4847066.30	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.5
17	17596422.17	4847066.30	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.9	0.0	0.0	0.8	0.0	0.0	27.6
17	17596422.17	4847066.30	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.8	0.0	0.0	36.6
17	17596422.17	4847066.30	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.6	0.0	0.0	9.7	0.0	0.0	39.3
17	17596422.17	4847066.30	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.0	-1.4	0.0	0.0	12.0	0.0	0.0	33.5
17	17596422.17	4847066.30	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.5	-1.4	0.0	0.0	14.6	0.0	0.0	23.2
17	17596422.17	4847066.30	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.6	-1.4	0.0	0.0	17.4	0.0	0.0	9.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
19	17596432.91	4847080.21	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	4.3	0.0	0.0	-6.9
19	17596432.91	4847080.21	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	4.9	0.0	0.0	5.7
19	17596432.91	4847080.21	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.6	0.0	0.0	25.7
19	17596432.91	4847080.21	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.9	0.0	0.0	0.7	0.0	0.0	27.6
19	17596432.91	4847080.21	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.7	0.0	0.0	36.6
19	17596432.91	4847080.21	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.6	0.0	0.0	9.7	0.0	0.0	39.4
19	17596432.91	4847080.21	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.0	-1.4	0.0	0.0	11.9	0.0	0.0	33.5
19	17596432.91	4847080.21	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.6	-1.4	0.0	0.0	14.5	0.0	0.0	23.2
19	17596432.91	4847080.21	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.7	-1.4	0.0	0.0	17.3	0.0	0.0	9.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
25	17596420.17	4847063.55	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.1	0.0	0.0	-7.6
25	17596420.17	4847063.55	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.3	0.0	0.0	5.3
25	17596420.17	4847063.55	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.5
25	17596420.17	4847063.55	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.9	0.0	0.0	0.8	0.0	0.0	27.6
25	17596420.17	4847063.55	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.7	0.0	0.0	36.6
25	17596420.17	4847063.55	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.6	0.0	0.0	9.7	0.0	0.0	39.3
25	17596420.17	4847063.55	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.0	-1.4	0.0	0.0	12.0	0.0	0.0	33.5
25	17596420.17	4847063.55	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.6	-1.4	0.0	0.0	14.5	0.0	0.0	23.2
25	17596420.17	4847063.55	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.7	-1.4	0.0	0.0	17.3	0.0	0.0	9.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
27	17596417.75	4847060.61	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.1	0.0	0.0	-7.7
27	17596417.75	4847060.61	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	5.3	0.0	0.0	5.3
27	17596417.75	4847060.61	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.5
27	17596417.75	4847060.61	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.9	0.0	0.0	0.8	0.0	0.0	27.5
27	17596417.75	4847060.61	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.7	0.0	0.0	36.6
27	17596417.75	4847060.61	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.6	0.0	0.0	9.7	0.0	0.0	39.3
27	17596417.75	4847060.61	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.1	-1.4	0.0	0.0	12.0	0.0	0.0	33.5
27	17596417.75	4847060.61	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.6	-1.4	0.0	0.0	14.5	0.0	0.0	23.2
27	17596417.75	4847060.61	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.7	-1.4	0.0	0.0	17.3	0.0	0.0	9.2

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
30	17596434.96	4847082.88	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	4.2	0.0	0.0	-6.8
30	17596434.96	4847082.88	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.9	0.0	0.0	4.8	0.0	0.0	5.8
30	17596434.96	4847082.88	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.7	0.0	-0.6	0.0	0.0	5.5	0.0	0.0	25.8
30	17596434.96	4847082.88	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.7	0.1	5.9	0.0	0.0	0.7	0.0	0.0	27.6
30	17596434.96	4847082.88	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.7	0.2	4.2	0.0	0.0	3.7	0.0	0.0	36.6
30	17596434.96	4847082.88	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.7	0.4	-0.6	0.0	0.0	9.7	0.0	0.0	39.4
30	17596434.96	4847082.88	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.7	1.1	-1.4	0.0	0.0	11.9	0.0	0.0	33.5
30	17596434.96	4847082.88	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.7	3.6	-1.4	0.0	0.0	14.5	0.0	0.0	23.2
30	17596434.96	4847082.88	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.7	12.7	-1.4	0.0	0.0	17.3	0.0	0.0	9.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
33	17596437.01	4847085.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.8	0.0	-3.9	0.0	0.0	4.0	0.0	0.0	-6.6
33	17596437.01	4847085.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.8	0.0	-3.9	0.0	0.0	4.7	0.0	0.0	5.9
33	17596437.01	4847085.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.8	0.0	-0.6	0.0	0.0	5.4	0.0	0.0	25.8
33	17596437.01	4847085.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.8	0.1	5.9	0.0	0.0	0.7	0.0	0.0	27.6
33	17596437.01	4847085.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.8	0.2	4.2	0.0	0.0	3.7	0.0	0.0	36.6
33	17596437.01	4847085.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.8	0.4	-0.6	0.0	0.0	9.6	0.0	0.0	39.4
33	17596437.01	4847085.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.8	1.1	-1.4	0.0	0.0	11.9	0.0	0.0	33.5
33	17596437.01	4847085.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.8	3.6	-1.4	0.0	0.0	14.5	0.0	0.0	23.2
33	17596437.01	4847085.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.8	12.8	-1.4	0.0	0.0	17.3	0.0	0.0	9.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
35	17596415.84	4847057.97	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.8	0.0	-3.9	0.0	0.0	5.0	0.0	0.0	-7.7
35	17596415.84	4847057.97	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.8	0.0	-3.9	0.0	0.0	5.3	0.0	0.0	5.2
35	17596415.84	4847057.97	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.8	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.5
35	17596415.84	4847057.97	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.8	0.1	5.9	0.0	0.0	0.7	0.0	0.0	27.5
35	17596415.84	4847057.97	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.8	0.2	4.2	0.0	0.0	3.7	0.0	0.0	36.5
35	17596415.84	4847057.97	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.8	0.4	-0.6	0.0	0.0	9.7	0.0	0.0	39.3
35	17596415.84	4847057.97	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.8	1.1	-1.4	0.0	0.0	11.9	0.0	0.0	33.5
35	17596415.84	4847057.97	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.8	3.6	-1.4	0.0	0.0	14.5	0.0	0.0	23.2
35	17596415.84	4847057.97	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.8	12.8	-1.4	0.0	0.0	17.3	0.0	0.0	9.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
38	17596439.27	4847088.69	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.8	0.0	-4.0	0.0	0.0	3.8	0.0	0.0	-6.5
38	17596439.27	4847088.69	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.8	0.0	-4.0	0.0	0.0	4.5	0.0	0.0	6.1
38	17596439.27	4847088.69	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.8	0.0	-0.6	0.0	0.0	5.2	0.0	0.0	26.0
38	17596439.27	4847088.69	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.8	0.1	5.9	0.0	0.0	0.6	0.0	0.0	27.6
38	17596439.27	4847088.69	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.8	0.2	4.2	0.0	0.0	3.6	0.0	0.0	36.6
38	17596439.27	4847088.69	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.8	0.4	-0.6	0.0	0.0	9.5	0.0	0.0	39.5
38	17596439.27	4847088.69	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.8	1.1	-1.4	0.0	0.0	11.7	0.0	0.0	33.6
38	17596439.27	4847088.69	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.8	3.6	-1.4	0.0	0.0	14.3	0.0	0.0	23.3
38	17596439.27	4847088.69	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.8	12.8	-1.4	0.0	0.0	17.1	0.0	0.0	9.2

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
41	17596413.54	4847055.06	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.8	0.0	-4.0	0.0	0.0	5.0	0.0	0.0	-7.7
41	17596413.54	4847055.06	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.8	0.0	-4.0	0.0	0.0	5.3	0.0	0.0	5.2
41	17596413.54	4847055.06	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.8	0.0	-0.6	0.0	0.0	5.8	0.0	0.0	25.4
41	17596413.54	4847055.06	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.8	0.1	5.9	0.0	0.0	0.7	0.0	0.0	27.5
41	17596413.54	4847055.06	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.8	0.2	4.2	0.0	0.0	3.7	0.0	0.0	36.5
41	17596413.54	4847055.06	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.8	0.4	-0.6	0.0	0.0	9.6	0.0	0.0	39.3
41	17596413.54	4847055.06	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.8	1.1	-1.4	0.0	0.0	11.9	0.0	0.0	33.4
41	17596413.54	4847055.06	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.8	3.6	-1.4	0.0	0.0	14.4	0.0	0.0	23.1
41	17596413.54	4847055.06	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.8	12.9	-1.4	0.0	0.0	17.2	0.0	0.0	9.0

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
44	17596441.38	4847091.26	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.9	0.0	-4.0	0.0	0.0	3.5	0.0	0.0	-6.3
44	17596441.38	4847091.26	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.9	0.0	-4.0	0.0	0.0	4.3	0.0	0.0	6.2
44	17596441.38	4847091.26	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.9	0.0	-0.6	0.0	0.0	5.1	0.0	0.0	26.1
44	17596441.38	4847091.26	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.9	0.1	5.9	0.0	0.0	0.6	0.0	0.0	27.6
44	17596441.38	4847091.26	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.9	0.2	4.2	0.0	0.0	3.5	0.0	0.0	36.6
44	17596441.38	4847091.26	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.9	0.4	-0.6	0.0	0.0	9.4	0.0	0.0	39.5
44	17596441.38	4847091.26	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.9	1.1	-1.4	0.0	0.0	11.6	0.0	0.0	33.6
44	17596441.38	4847091.26	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.9	3.6	-1.4	0.0	0.0	14.2	0.0	0.0	23.3
44	17596441.38	4847091.26	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.9	12.9	-1.4	0.0	0.0	17.0	0.0	0.0	9.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
48	17596443.43	4847094.14	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	51.9	0.0	-4.0	0.0	0.0	3.3	0.0	0.0	-6.0
48	17596443.43	4847094.14	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	51.9	0.0	-4.0	0.0	0.0	4.0	0.0	0.0	6.5
48	17596443.43	4847094.14	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	51.9	0.0	-0.6	0.0	0.0	4.8	0.0	0.0	26.3
48	17596443.43	4847094.14	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	51.9	0.1	5.9	0.0	0.0	0.5	0.0	0.0	27.6
48	17596443.43	4847094.14	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	51.9	0.2	4.2	0.0	0.0	3.4	0.0	0.0	36.6
48	17596443.43	4847094.14	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	51.9	0.4	-0.6	0.0	0.0	9.2	0.0	0.0	39.6
48	17596443.43	4847094.14	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	51.9	1.1	-1.4	0.0	0.0	11.5	0.0	0.0	33.7
48	17596443.43	4847094.14	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	51.9	3.7	-1.4	0.0	0.0	14.1	0.0	0.0	23.4
48	17596443.43	4847094.14	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	51.9	13.0	-1.4	0.0	0.0	16.9	0.0	0.0	9.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
51	17596445.53	4847096.92	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	52.0	0.0	-4.0	0.0	0.0	2.9	0.0	0.0	-5.7
51	17596445.53	4847096.92	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	52.0	0.0	-4.0	0.0	0.0	3.6	0.0	0.0	6.8
51	17596445.53	4847096.92	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	52.0	0.0	-0.6	0.0	0.0	4.5	0.0	0.0	26.5
51	17596445.53	4847096.92	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	52.0	0.1	5.9	0.0	0.0	0.4	0.0	0.0	27.6
51	17596445.53	4847096.92	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	52.0	0.2	4.2	0.0	0.0	3.3	0.0	0.0	36.7
51	17596445.53	4847096.92	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	52.0	0.4	-0.6	0.0	0.0	9.0	0.0	0.0	39.8
51	17596445.53	4847096.92	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	52.0	1.1	-1.4	0.0	0.0	11.3	0.0	0.0	33.9
51	17596445.53	4847096.92	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	52.0	3.7	-1.4	0.0	0.0	13.9	0.0	0.0	23.5
51	17596445.53	4847096.92	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	52.0	13.1	-1.4	0.0	0.0	16.7	0.0	0.0	9.1

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
54	17596447.63	4847099.64	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	52.1	0.0	-4.0	0.0	0.0	2.6	0.0	0.0	-5.4
54	17596447.63	4847099.64	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	52.1	0.0	-4.0	0.0	0.0	3.2	0.0	0.0	7.2
54	17596447.63	4847099.64	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	52.1	0.0	-0.6	0.0	0.0	4.0	0.0	0.0	26.9
54	17596447.63	4847099.64	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	52.1	0.1	5.9	0.0	0.0	0.2	0.0	0.0	27.7
54	17596447.63	4847099.64	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	52.1	0.2	4.2	0.0	0.0	3.1	0.0	0.0	36.8
54	17596447.63	4847099.64	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	52.1	0.4	-0.6	0.0	0.0	8.6	0.0	0.0	40.1
54	17596447.63	4847099.64	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	52.1	1.1	-1.4	0.0	0.0	10.9	0.0	0.0	34.1
54	17596447.63	4847099.64	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	52.1	3.7	-1.4	0.0	0.0	13.5	0.0	0.0	23.7
54	17596447.63	4847099.64	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	52.1	13.2	-1.4	0.0	0.0	16.3	0.0	0.0	9.3

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
58	17596449.88	4847102.47	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	52.2	0.0	-4.0	0.0	0.0	2.2	0.0	0.0	-5.2
58	17596449.88	4847102.47	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	52.2	0.0	-4.0	0.0	0.0	2.6	0.0	0.0	7.6
58	17596449.88	4847102.47	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	52.2	0.0	-0.6	0.0	0.0	3.3	0.0	0.0	27.5
58	17596449.88	4847102.47	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	52.2	0.1	5.9	0.0	0.0	0.0	0.0	0.0	27.8
58	17596449.88	4847102.47	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	52.2	0.2	4.2	0.0	0.0	2.7	0.0	0.0	37.1
58	17596449.88	4847102.47	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	52.2	0.4	-0.6	0.0	0.0	7.8	0.0	0.0	40.8
58	17596449.88	4847102.47	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	52.2	1.1	-1.5	0.0	0.0	10.1	0.0	0.0	34.8
58	17596449.88	4847102.47	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	52.2	3.8	-1.5	0.0	0.0	12.7	0.0	0.0	24.4
58	17596449.88	4847102.47	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	52.2	13.4	-1.5	0.0	0.0	15.5	0.0	0.0	9.9

MITIGATED IMPULSE SOUND LEVELS - COUPLING/DECOUPLING

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
60	17596452.02	4847105.32	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	52.3	0.0	-4.1	0.0	0.0	2.0	0.0	0.0	-5.0
60	17596452.02	4847105.32	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	52.3	0.0	-4.1	0.0	0.0	2.2	0.0	0.0	8.0
60	17596452.02	4847105.32	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	52.3	0.0	-0.6	0.0	0.0	2.5	0.0	0.0	28.2
60	17596452.02	4847105.32	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	52.3	0.1	5.9	0.0	0.0	0.0	0.0	0.0	27.7
60	17596452.02	4847105.32	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	52.3	0.2	4.2	0.0	0.0	1.8	0.0	0.0	37.9
60	17596452.02	4847105.32	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	52.3	0.4	-0.6	0.0	0.0	5.9	0.0	0.0	42.6
60	17596452.02	4847105.32	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	52.3	1.1	-1.5	0.0	0.0	8.0	0.0	0.0	36.9
60	17596452.02	4847105.32	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	52.3	3.8	-1.5	0.0	0.0	10.4	0.0	0.0	26.6
60	17596452.02	4847105.32	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	52.3	13.5	-1.5	0.0	0.0	13.1	0.0	0.0	12.0

Point Source, ISO 9613, Name: "Coupling", ID: "COUPLE"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
62	17596454.16	4847108.04	1.00	0	DEN	32	45.2	0.0	0.0	0.0	0.0	52.4	0.0	-4.1	0.0	0.0	1.9	0.0	0.0	-5.0
62	17596454.16	4847108.04	1.00	0	DEN	63	58.4	0.0	0.0	0.0	0.0	52.4	0.0	-4.1	0.0	0.0	2.0	0.0	0.0	8.1
62	17596454.16	4847108.04	1.00	0	DEN	125	82.5	0.0	0.0	0.0	0.0	52.4	0.0	-0.6	0.0	0.0	2.1	0.0	0.0	28.5
62	17596454.16	4847108.04	1.00	0	DEN	250	86.0	0.0	0.0	0.0	0.0	52.4	0.1	5.9	0.0	0.0	0.0	0.0	0.0	27.6
62	17596454.16	4847108.04	1.00	0	DEN	500	96.4	0.0	0.0	0.0	0.0	52.4	0.2	4.2	0.0	0.0	0.8	0.0	0.0	38.7
62	17596454.16	4847108.04	1.00	0	DEN	1000	100.6	0.0	0.0	0.0	0.0	52.4	0.4	-0.6	0.0	0.0	3.4	0.0	0.0	45.0
62	17596454.16	4847108.04	1.00	0	DEN	2000	96.8	0.0	0.0	0.0	0.0	52.4	1.1	-1.5	0.0	0.0	4.0	0.0	0.0	40.8
62	17596454.16	4847108.04	1.00	0	DEN	4000	91.6	0.0	0.0	0.0	0.0	52.4	3.8	-1.5	0.0	0.0	4.5	0.0	0.0	32.3
62	17596454.16	4847108.04	1.00	0	DEN	8000	89.5	0.0	0.0	0.0	0.0	52.4	13.7	-1.5	0.0	0.0	5.1	0.0	0.0	19.8

CADNAA OUTPUT – UNMITGATED TRUCKING, BEEPERS SOUND LEVELS

Receiver

Name: R1 - 2nd Storey
 ID: R1
 X: 17596376.42 m
 Y: 4847098.04 m
 Z: 2.00 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
1	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	46.5	0.1	-0.2	0.0	0.0	8.5	0.0	0.0	40.4

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
2	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	47.0	0.1	-0.2	0.0	0.0	8.4	0.0	0.0	40.1
3	17596401.94	4847040.60	2.00	1	D	500	117.0	0.0	-21.6	0.0	0.0	58.1	0.4	3.5	0.0	0.0	0.0	0.0	0.0	33.4

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
4	17596433.49	4847110.09	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	46.3	0.1	0.1	0.0	0.0	7.7	0.0	0.0	25.5
5	17596424.90	4847099.27	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	44.7	0.1	0.0	0.0	0.0	8.3	0.0	0.0	26.5
7	17596416.31	4847088.45	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	43.3	0.1	-0.1	0.0	0.0	8.9	0.0	0.0	27.5
9	17596407.72	4847077.64	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	42.4	0.1	-0.1	0.0	0.0	9.2	0.0	0.0	28.1
11	17596400.80	4847068.93	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	42.6	0.1	-0.1	0.0	0.0	9.1	0.0	0.0	25.8
13	17596383.51	4847063.29	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	42.0	0.1	0.7	0.0	0.0	8.7	0.0	0.0	27.4
16	17596376.11	4847054.54	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	43.8	0.1	1.0	0.0	0.0	7.8	0.0	0.0	26.2
18	17596368.21	4847045.19	2.40	0	D	500	68.2	11.1	0.0	0.0	0.0	45.6	0.1	1.3	0.0	0.0	6.6	0.0	0.0	25.9
20	17596362.96	4847038.98	2.40	0	D	500	68.2	5.1	0.0	0.0	0.0	46.6	0.1	1.3	0.0	0.0	4.7	0.0	0.0	20.5
27	17596384.05	4847063.93	2.40	1	D	500	68.2	9.9	0.0	0.0	0.0	58.2	0.4	2.2	0.0	0.0	0.0	0.0	0.0	17.3
38	17596377.73	4847056.45	2.40	1	D	500	68.2	9.9	0.0	0.0	0.0	57.8	0.4	2.5	0.0	0.0	0.0	0.0	0.0	17.4
40	17596368.25	4847045.23	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	57.2	0.4	2.9	0.0	0.0	0.0	0.0	0.0	20.7
56	17596478.96	4847133.89	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	51.7	0.2	-0.3	0.0	0.0	6.2	0.0	0.0	25.2
60	17596451.51	4847121.63	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	48.9	0.2	0.2	0.0	0.0	6.7	0.0	0.0	27.1
67	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	42.0	0.1	0.2	0.0	0.0	9.1	0.0	0.0	27.4
69	17596392.69	4847066.65	2.40	1	D	500	68.2	10.5	0.0	0.0	0.0	58.5	0.5	1.9	0.0	0.0	0.0	0.0	0.0	17.8
76	17596517.59	4847131.26	2.40	0	D	500	68.2	15.5	0.0	0.0	0.0	54.2	0.3	-0.0	0.0	0.0	6.1	0.0	0.0	23.2
78	17596503.23	4847143.21	2.40	0	D	500	68.2	2.6	0.0	0.0	0.0	53.6	0.3	-0.3	0.0	0.0	5.9	0.0	0.0	11.4
81	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	55.8	0.3	-0.4	0.0	0.0	5.8	0.0	0.0	23.5
94	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	53.2	0.2	-0.3	0.0	0.0	5.9	0.0	0.0	19.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
42	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	40.2	0.1	-0.2	0.0	0.0	14.4	0.0	0.0	27.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
52	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.6	0.2	-1.8	0.0	0.0	10.4	0.0	0.0	25.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
54	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.1	0.3	-1.8	0.0	0.0	10.2	0.0	0.0	24.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
63	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	44.3	0.2	-0.4	0.0	0.0	11.7	0.0	0.0	25.8

TRUCKING, REPAIRS & BEEPERS

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
71	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.6	0.2	-1.8	0.0	0.0	10.4	0.0	0.0	25.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
73	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.7	0.3	-1.8	0.0	0.0	9.8	0.0	0.0	24.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
74	17596459.36	4847099.55	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	49.4	0.3	-1.9	0.0	0.0	9.4	0.0	0.0	24.4

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
84	17596474.88	4847116.86	2.40	0	D	500	68.2	13.0	0.0	0.0	0.0	51.0	0.2	-0.6	0.0	0.0	6.8	0.0	0.0	23.8
86	17596461.55	4847113.49	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	49.7	0.2	-0.3	0.0	0.0	7.1	0.0	0.0	22.8
90	17596456.93	4847120.62	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	49.4	0.2	-0.0	0.0	0.0	6.8	0.0	0.0	21.1
96	17596483.53	4847128.67	2.40	0	D	500	68.2	10.4	0.0	0.0	0.0	51.9	0.2	-0.5	0.0	0.0	6.3	0.0	0.0	20.6
98	17596484.10	4847134.75	2.40	0	D	500	68.2	2.8	0.0	0.0	0.0	52.1	0.2	-0.3	0.0	0.0	6.2	0.0	0.0	12.9
104	17596483.37	4847135.60	2.40	0	D	500	68.2	-4.7	0.0	0.0	0.0	52.1	0.2	-0.3	0.0	0.0	6.1	0.0	0.0	5.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
87	17596544.39	4847122.39	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.6	0.6	-1.7	0.0	0.0	7.4	0.0	0.0	19.6

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
89	17596539.65	4847145.93	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.6	0.6	-2.2	0.0	0.0	6.8	0.0	0.0	20.8

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
92	17596560.27	4847145.51	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	56.6	0.7	-2.4	0.0	0.0	6.7	0.0	0.0	20.0

Receiver
 Name: R2 - Grade
 ID: R2
 X: 17596399.54 m
 Y: 4847117.05 m
 Z: 1.50 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
6	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	48.0	0.1	0.6	0.0	0.0	9.0	0.0	0.0	37.7
8	17596406.18	4847046.26	2.00	1	D	500	117.0	0.0	-21.6	0.0	0.0	48.9	0.2	0.3	0.0	0.0	9.3	0.0	1.0	35.8

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
10	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	48.7	0.1	0.6	0.0	0.0	8.6	0.0	0.0	37.3
12	17596401.94	4847040.60	2.00	1	D	500	117.0	0.0	-21.6	0.0	0.0	49.6	0.2	0.5	0.0	0.0	8.8	0.0	1.0	35.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
14	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	36.8	0.1	-0.2	0.0	0.0	15.6	0.0	0.0	29.3
17	17596405.40	4847098.40	2.00	1	D	1000	115.0	0.0	-33.4	0.0	0.0	39.6	0.1	-0.2	0.0	0.0	14.3	0.0	1.0	26.9

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
21	17596434.64	4847111.54	2.40	0	D	500	68.2	10.0	0.0	0.0	0.0	42.0	0.1	0.0	0.0	0.0	10.5	0.0	0.0	25.6
23	17596427.33	4847102.34	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	41.0	0.1	-0.1	0.0	0.0	10.7	0.0	0.0	27.9
24	17596419.00	4847091.85	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	41.1	0.1	-0.0	0.0	0.0	11.0	0.0	0.0	27.4
31	17596410.67	4847081.36	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	42.5	0.1	0.2	0.0	0.0	10.3	0.0	0.0	26.5
33	17596402.34	4847070.87	2.40	0	D	500	68.2	11.3	0.0	0.0	0.0	44.3	0.1	0.5	0.0	0.0	9.2	0.0	0.0	25.4
35	17596413.58	4847085.03	2.40	1	D	500	68.2	10.2	0.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	10.5	0.0	1.0	23.7
37	17596404.27	4847073.30	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	45.3	0.1	0.6	0.0	0.0	9.0	0.0	1.0	25.2
47	17596478.96	4847133.89	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	49.2	0.2	0.5	0.0	0.0	9.3	0.0	0.0	23.9
49	17596458.37	4847124.69	2.40	0	D	500	68.2	11.8	0.0	0.0	0.0	46.5	0.1	0.3	0.0	0.0	9.8	0.0	0.0	23.2
51	17596444.65	4847118.56	2.40	0	D	500	68.2	11.8	0.0	0.0	0.0	44.1	0.1	0.0	0.0	0.0	10.4	0.0	0.0	25.4
61	17596383.54	4847063.33	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	46.0	0.1	2.8	0.0	0.0	5.6	0.0	0.0	24.3
65	17596370.90	4847048.37	2.40	0	D	500	68.2	14.4	0.0	0.0	0.0	48.4	0.1	4.1	0.0	0.0	3.3	0.0	0.0	26.7
70	17596386.57	4847066.92	2.40	1	D	500	68.2	2.9	0.0	0.0	0.0	46.8	0.1	3.0	0.0	0.0	5.2	0.0	1.0	15.1
75	17596379.93	4847059.06	2.40	1	D	500	68.2	12.7	0.0	0.0	0.0	48.1	0.1	3.9	0.0	0.0	3.7	0.0	1.0	24.1
77	17596367.93	4847044.86	2.40	1	D	500	68.2	12.7	0.0	0.0	0.0	50.1	0.2	4.2	0.0	0.0	2.6	0.0	1.0	22.9
80	17596368.25	4847045.23	2.40	2	D	500	68.2	12.9	0.0	0.0	0.0	58.8	0.5	5.6	0.0	0.0	0.0	0.0	1.0	15.3
82	17596368.25	4847045.23	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	58.4	0.4	5.6	0.0	0.0	0.0	0.0	0.0	16.8
110	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	45.1	0.1	1.4	0.0	0.0	7.6	0.0	0.0	24.5
113	17596393.19	4847066.55	2.40	1	D	500	68.2	10.1	0.0	0.0	0.0	46.6	0.1	1.7	0.0	0.0	7.0	0.0	1.0	21.9
115	17596387.70	4847067.58	2.40	1	D	500	68.2	0.0	0.0	0.0	0.0	46.7	0.1	2.8	0.0	0.0	5.5	0.0	1.0	12.2
118	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	52.5	0.2	0.8	0.0	0.0	9.2	0.0	0.0	21.2
120	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	54.4	0.3	0.4	0.0	0.0	9.3	0.0	0.0	20.7
139	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	51.1	0.2	0.5	0.0	0.0	8.9	0.0	0.0	17.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
45	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	37.3	0.1	-0.5	0.0	0.0	14.4	0.0	0.0	30.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
53	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	46.9	0.2	-1.7	0.0	0.0	13.1	0.0	0.0	23.1

TRUCKING, REPAIRS & BEEPERS

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
55	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.2	0.3	-1.8	0.0	0.0	12.4	0.0	0.0	22.5
59	17596422.79	4847048.63	2.00	1	D	1000	115.0	0.0	-33.4	0.0	0.0	48.8	0.3	-1.9	0.0	0.0	12.6	0.0	1.0	20.8

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
95	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	46.6	0.2	-1.7	0.0	0.0	12.9	0.0	0.0	23.6

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
100	17596459.36	4847099.55	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	46.9	0.2	-1.7	0.0	0.0	12.5	0.0	0.0	23.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
107	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.4	0.2	-1.7	0.0	0.0	12.8	0.0	0.0	22.9

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
124	17596474.88	4847116.86	2.40	0	D	500	68.2	13.0	0.0	0.0	0.0	48.5	0.1	0.1	0.0	0.0	10.1	0.0	0.0	22.2
127	17596461.55	4847113.49	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	46.9	0.1	0.0	0.0	0.0	10.3	0.0	0.0	22.2
129	17596456.93	4847120.62	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	46.2	0.1	0.2	0.0	0.0	10.1	0.0	0.0	20.9
141	17596483.53	4847128.67	2.40	0	D	500	68.2	10.4	0.0	0.0	0.0	49.6	0.2	0.3	0.0	0.0	9.7	0.0	0.0	18.9
146	17596483.99	4847134.88	2.40	0	D	500	68.2	3.5	0.0	0.0	0.0	49.7	0.2	0.4	0.0	0.0	9.3	0.0	0.0	12.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
133	17596539.65	4847145.93	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.1	0.5	-2.2	0.0	0.0	12.0	0.0	0.0	17.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
137	17596544.39	4847122.39	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.2	0.5	-1.7	0.0	0.0	12.5	0.0	0.0	16.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
143	17596560.27	4847145.51	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.3	0.6	-2.4	0.0	0.0	12.0	0.0	0.0	16.1

Receiver

Name: R3 - Facade

ID: R3

X: 17596313.61 m

Y: 4847149.13 m

Z: 2.00 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
19	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	53.8	0.3	2.4	0.0	0.0	3.6	0.0	0.0	35.4

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
25	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	53.9	0.3	2.4	0.0	0.0	3.6	0.0	0.0	35.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
29	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.4	0.5	-0.8	0.0	0.0	6.3	0.0	0.0	21.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
44	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.5	0.6	-0.9	0.0	0.0	6.2	0.0	0.0	21.2

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
46	17596436.05	4847113.31	2.40	0	D	500	68.2	7.5	0.0	0.0	0.0	53.1	0.2	2.4	0.0	0.0	0.0	0.0	0.0	19.9
48	17596420.59	4847093.84	2.40	0	D	500	68.2	16.4	0.0	0.0	0.0	52.6	0.2	2.4	0.0	0.0	4.1	0.0	0.0	25.3
50	17596402.52	4847071.09	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	52.5	0.2	2.4	0.0	0.0	4.2	0.0	0.0	20.3
58	17596465.23	4847127.76	2.40	0	D	500	68.2	17.8	0.0	0.0	0.0	54.7	0.3	2.3	0.0	0.0	0.0	0.0	0.0	28.7
62	17596377.70	4847056.42	2.40	0	D	500	68.2	14.7	0.0	0.0	0.0	52.0	0.2	2.7	0.0	0.0	5.6	0.0	0.0	22.3
64	17596365.06	4847041.46	2.40	0	D	500	68.2	9.9	0.0	0.0	0.0	52.5	0.2	2.7	0.0	0.0	0.0	0.0	0.0	22.7
66	17596383.56	4847063.35	2.40	1	D	500	68.2	10.5	0.0	0.0	0.0	58.0	0.4	2.8	0.0	0.0	3.1	0.0	0.0	14.4
88	17596370.92	4847048.39	2.40	1	D	500	68.2	14.5	0.0	0.0	0.0	57.4	0.4	2.7	0.0	0.0	0.0	0.0	0.0	22.2
116	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	57.2	0.4	1.9	0.0	0.0	0.0	0.0	0.0	24.5
119	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	58.3	0.4	1.2	0.0	0.0	0.0	0.0	0.0	25.1
122	17596393.42	4847066.51	2.40	0	D	500	68.2	9.9	0.0	0.0	0.0	52.2	0.2	2.5	0.0	0.0	4.6	0.0	0.0	18.5
125	17596387.93	4847067.53	2.40	0	D	500	68.2	1.7	0.0	0.0	0.0	51.9	0.2	2.7	0.0	0.0	5.5	0.0	0.0	9.7
128	17596392.69	4847066.65	2.40	1	D	500	68.2	10.5	0.0	0.0	0.0	58.4	0.5	2.5	0.0	0.0	2.7	0.0	0.0	14.6
144	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	56.3	0.4	2.6	0.0	0.0	0.0	0.0	0.0	19.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
91	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	51.4	0.4	0.2	0.0	0.0	13.9	0.0	0.0	15.8

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
93	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.0	0.4	0.1	0.0	0.0	6.2	0.0	0.0	22.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
102	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.4	0.5	-0.8	0.0	0.0	6.3	0.0	0.0	21.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
109	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.6	0.6	-0.9	0.0	0.0	6.0	0.0	0.0	21.3

Receiver

Name: R4 - Rear

ID: R4

X: 17596340.84 m

Y: 4847137.58 m

Z: 1.50 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
15	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	52.0	0.2	4.6	0.0	0.0	2.0	0.0	0.0	36.6

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
22	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	52.2	0.2	4.6	0.0	0.0	1.9	0.0	0.0	36.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
26	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.7	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
28	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.7	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
30	17596436.51	4847113.89	2.40	0	D	500	68.2	6.1	0.0	0.0	0.0	50.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	18.7
32	17596426.97	4847101.88	2.40	0	D	500	68.2	14.2	0.0	0.0	0.0	50.4	0.2	4.5	0.0	0.0	2.5	0.0	0.0	24.9
34	17596410.44	4847081.07	2.40	0	D	500	68.2	14.2	0.0	0.0	0.0	50.1	0.2	4.5	0.0	0.0	2.8	0.0	0.0	24.9
36	17596400.18	4847068.14	2.40	0	D	500	68.2	8.1	0.0	0.0	0.0	50.2	0.2	4.5	0.0	0.0	2.7	0.0	0.0	18.7
39	17596465.23	4847127.76	2.40	0	D	500	68.2	17.8	0.0	0.0	0.0	52.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	28.2
41	17596382.09	4847061.61	2.40	0	D	500	68.2	12.0	0.0	0.0	0.0	49.7	0.2	4.7	0.0	0.0	4.0	0.0	0.0	21.7
43	17596371.84	4847049.48	2.40	0	D	500	68.2	12.0	0.0	0.0	0.0	50.4	0.2	4.9	0.0	0.0	3.6	0.0	0.0	21.2
57	17596364.31	4847040.58	2.40	0	D	500	68.2	8.7	0.0	0.0	0.0	51.0	0.2	4.9	0.0	0.0	0.0	0.0	0.0	20.9
68	17596385.81	4847066.01	2.40	1	D	500	68.2	6.4	0.0	0.0	0.0	58.0	0.4	5.3	0.0	0.0	0.2	0.0	0.0	10.6
72	17596380.95	4847060.26	2.40	1	D	500	68.2	10.3	0.0	0.0	0.0	57.7	0.4	5.2	0.0	0.0	0.0	0.0	0.0	15.2
79	17596374.57	4847052.71	2.40	1	D	500	68.2	15.9	0.0	0.0	0.0	58.5	0.5	5.3	0.0	0.0	0.0	0.0	0.0	19.9
103	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	49.9	0.2	4.6	0.0	0.0	3.2	0.0	0.0	20.9
105	17596392.79	4847066.63	2.40	1	D	500	68.2	8.1	0.0	0.0	0.0	58.3	0.4	4.8	0.0	0.0	0.0	0.0	0.0	12.9
106	17596388.39	4847067.45	2.40	1	D	500	68.2	3.8	0.0	0.0	0.0	58.1	0.4	5.2	0.0	0.0	0.2	0.0	0.0	8.1
108	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	55.9	0.3	4.3	0.0	0.0	0.0	0.0	0.0	23.4
112	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	57.2	0.4	3.8	0.0	0.0	0.0	0.0	0.0	23.7
131	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	54.9	0.3	5.1	0.0	0.0	0.0	0.0	0.0	18.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
83	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.6	0.3	0.6	0.0	0.0	13.9	0.0	0.0	18.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
85	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	49.3	0.3	0.5	0.0	0.0	7.5	0.0	0.0	24.0

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
97	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.6	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

CADNAA OUTPUT – MITGATED TRUCKING, BEEPERS SOUND LEVELS

MITIGATED SOUND LEVELS - TRUCKING, REPAIRS & BEEPERS

Receiver

Name: R1 - 2nd Storey
 ID: R1
 X: 17596376.42 m
 Y: 4847098.04 m
 Z: 2.00 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
1	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	46.5	0.1	-0.2	0.0	0.0	8.6	0.0	0.0	40.4

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
2	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	47.0	0.1	-0.2	0.0	0.0	8.4	0.0	0.0	40.1
3	17596401.94	4847040.60	2.00	1	D	500	117.0	0.0	-21.6	0.0	0.0	58.1	0.4	3.5	0.0	0.0	0.0	0.0	0.0	33.4

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
4	17596433.49	4847110.09	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	46.3	0.1	0.1	0.0	0.0	7.7	0.0	0.0	25.4
5	17596424.90	4847099.27	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	44.7	0.1	0.0	0.0	0.0	8.3	0.0	0.0	26.5
6	17596416.31	4847088.45	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	43.3	0.1	-0.1	0.0	0.0	8.9	0.0	0.0	27.5
8	17596407.72	4847077.64	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	42.4	0.1	-0.1	0.0	0.0	9.2	0.0	0.0	28.1
15	17596400.80	4847068.93	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	42.6	0.1	-0.1	0.0	0.0	9.1	0.0	0.0	25.8
20	17596383.51	4847063.29	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	42.0	0.1	0.7	0.0	0.0	8.7	0.0	0.0	27.4
31	17596376.11	4847054.54	2.40	0	D	500	68.2	10.6	0.0	0.0	0.0	43.8	0.1	1.0	0.0	0.0	7.7	0.0	0.0	26.3
35	17596368.21	4847045.19	2.40	0	D	500	68.2	11.1	0.0	0.0	0.0	45.6	0.1	1.3	0.0	0.0	6.5	0.0	0.0	26.0
37	17596362.96	4847038.98	2.40	0	D	500	68.2	5.1	0.0	0.0	0.0	46.6	0.1	1.3	0.0	0.0	4.3	0.0	0.0	20.9
41	17596384.05	4847063.93	2.40	1	D	500	68.2	9.9	0.0	0.0	0.0	58.2	0.4	2.2	0.0	0.0	0.0	0.0	0.0	17.3
43	17596377.73	4847056.45	2.40	1	D	500	68.2	9.9	0.0	0.0	0.0	57.8	0.4	2.5	0.0	0.0	0.0	0.0	0.0	17.4
47	17596368.25	4847045.23	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	57.2	0.4	2.9	0.0	0.0	0.0	0.0	0.0	20.7
61	17596478.96	4847133.89	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	51.7	0.2	-0.3	0.0	0.0	6.2	0.0	0.0	25.2
63	17596451.51	4847121.63	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	48.9	0.2	0.2	0.0	0.0	6.7	0.0	0.0	27.1
67	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	42.0	0.1	0.2	0.0	0.0	9.1	0.0	0.0	27.4
69	17596392.69	4847066.65	2.40	1	D	500	68.2	10.5	0.0	0.0	0.0	58.5	0.5	1.9	0.0	0.0	0.0	0.0	0.0	17.8
79	17596517.59	4847131.26	2.40	0	D	500	68.2	15.5	0.0	0.0	0.0	54.2	0.3	-0.0	0.0	0.0	6.1	0.0	0.0	23.2
81	17596503.23	4847143.21	2.40	0	D	500	68.2	2.6	0.0	0.0	0.0	53.6	0.3	-0.3	0.0	0.0	5.9	0.0	0.0	11.4
83	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	55.8	0.3	-0.4	0.0	0.0	5.8	0.0	0.0	23.5
109	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	53.2	0.2	-0.3	0.0	0.0	5.9	0.0	0.0	19.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
49	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	40.2	0.1	-0.2	0.0	0.0	14.3	0.0	0.0	27.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
51	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.6	0.2	-1.8	0.0	0.0	10.4	0.0	0.0	25.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
53	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.1	0.3	-1.8	0.0	0.0	10.2	0.0	0.0	24.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
65	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	44.3	0.2	-0.4	0.0	0.0	11.6	0.0	0.0	25.9

MITIGATED SOUND LEVELS - TRUCKING, REPAIRS & BEEPERS

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
71	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.6	0.2	-1.8	0.0	0.0	10.5	0.0	0.0	25.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
75	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.7	0.3	-1.8	0.0	0.0	9.8	0.0	0.0	24.6

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
77	17596459.36	4847099.55	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	49.4	0.3	-1.9	0.0	0.0	9.4	0.0	0.0	24.4

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
91	17596474.88	4847116.86	2.40	0	D	500	68.2	13.0	0.0	0.0	0.0	51.0	0.2	-0.6	0.0	0.0	6.9	0.0	0.0	23.8
93	17596461.55	4847113.49	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	49.7	0.2	-0.3	0.0	0.0	7.1	0.0	0.0	22.8
103	17596456.93	4847120.62	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	49.4	0.2	-0.0	0.0	0.0	6.8	0.0	0.0	21.1
111	17596483.53	4847128.67	2.40	0	D	500	68.2	10.4	0.0	0.0	0.0	51.9	0.2	-0.5	0.0	0.0	6.4	0.0	0.0	20.6
113	17596484.10	4847134.75	2.40	0	D	500	68.2	2.8	0.0	0.0	0.0	52.1	0.2	-0.3	0.0	0.0	6.2	0.0	0.0	12.9
115	17596483.37	4847135.60	2.40	0	D	500	68.2	-4.7	0.0	0.0	0.0	52.1	0.2	-0.3	0.0	0.0	6.2	0.0	0.0	5.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
97	17596544.39	4847122.39	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.6	0.6	-1.7	0.0	0.0	7.4	0.0	0.0	19.6

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
99	17596539.65	4847145.93	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.6	0.6	-2.2	0.0	0.0	6.9	0.0	0.0	20.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
105	17596560.27	4847145.51	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	56.6	0.7	-2.4	0.0	0.0	6.7	0.0	0.0	20.0

Receiver
 Name: R2 - Grade
 ID: R2
 X: 17596397.29 m
 Y: 4847120.04 m
 Z: 1.50 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
7	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	48.4	0.1	1.2	0.0	0.0	7.7	0.0	0.0	38.0

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
9	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	49.0	0.2	1.3	0.0	0.0	7.4	0.0	0.0	37.6

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
11	17596434.45	4847111.30	2.40	0	D	500	68.2	10.3	0.0	0.0	0.0	42.6	0.1	0.4	0.0	0.0	8.7	0.0	0.0	26.7
13	17596427.00	4847101.92	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	41.8	0.1	0.3	0.0	0.0	9.5	0.0	0.0	27.7
19	17596418.76	4847091.55	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	42.1	0.1	0.4	0.0	0.0	9.8	0.0	0.0	27.1
21	17596410.53	4847081.18	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	43.3	0.1	0.6	0.0	0.0	9.2	0.0	0.0	26.3
23	17596402.30	4847070.81	2.40	0	D	500	68.2	11.2	0.0	0.0	0.0	44.9	0.1	1.1	0.0	0.0	8.1	0.0	0.0	25.3
34	17596484.25	4847136.25	2.40	0	D	500	68.2	12.7	0.0	0.0	0.0	49.9	0.2	1.0	0.0	0.0	0.0	0.0	0.0	29.8
36	17596466.30	4847128.23	2.40	0	D	500	68.2	13.2	0.0	0.0	0.0	47.8	0.1	1.0	0.0	0.0	4.0	0.0	0.0	28.4
38	17596447.29	4847119.74	2.40	0	D	500	68.2	13.2	0.0	0.0	0.0	45.0	0.1	0.6	0.0	0.0	6.3	0.0	0.0	29.5
54	17596381.95	4847061.45	2.40	0	D	500	68.2	12.1	0.0	0.0	0.0	46.6	0.1	3.6	0.0	0.0	4.5	0.0	0.0	25.5
56	17596369.31	4847046.49	2.40	0	D	500	68.2	13.6	0.0	0.0	0.0	48.9	0.2	4.2	0.0	0.0	2.9	0.0	0.0	25.6
60	17596368.25	4847045.23	2.40	1	D	500	68.2	12.9	0.0	0.0	0.0	58.4	0.5	5.6	0.0	0.0	0.0	0.0	0.0	16.7
84	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	45.6	0.1	2.0	0.0	0.0	6.7	0.0	0.0	24.4
86	17596520.46	4847128.87	2.40	0	D	500	68.2	14.5	0.0	0.0	0.0	52.8	0.2	1.3	0.0	0.0	4.4	0.0	0.0	23.9
88	17596506.11	4847140.82	2.40	0	D	500	68.2	9.7	0.0	0.0	0.0	51.9	0.2	1.0	0.0	0.0	0.0	0.0	0.0	24.8
92	17596555.15	4847151.32	2.40	0	D	500	68.2	12.5	0.0	0.0	0.0	55.1	0.3	0.7	0.0	0.0	0.0	0.0	0.0	24.6
94	17596540.48	4847132.04	2.40	0	D	500	68.2	14.8	0.0	0.0	0.0	54.1	0.3	1.0	0.0	0.0	4.3	0.0	0.0	23.4
116	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	51.2	0.2	1.0	0.0	0.0	0.0	0.0	0.0	26.0

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
25	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	38.3	0.1	-0.1	0.0	0.0	15.2	0.0	0.0	28.1

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
27	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	38.4	0.1	-0.4	0.0	0.0	12.9	0.0	0.0	30.6

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
42	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.4	0.2	-1.6	0.0	0.0	12.1	0.0	0.0	23.4

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
45	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.6	0.3	-1.6	0.0	0.0	11.5	0.0	0.0	22.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
73	17596452.45	4847087.50	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.1	0.2	-1.6	0.0	0.0	11.7	0.0	0.0	24.1

MITIGATED SOUND LEVELS - TRUCKING, REPAIRS & BEEPERS

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
80	17596459.36	4847099.55	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.3	0.2	-1.5	0.0	0.0	11.3	0.0	0.0	24.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
82	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	47.8	0.3	-1.6	0.0	0.0	11.9	0.0	0.0	23.2

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
96	17596474.88	4847116.86	2.40	0	D	500	68.2	13.0	0.0	0.0	0.0	48.8	0.1	0.6	0.0	0.0	6.6	0.0	0.0	25.0
98	17596460.16	4847114.23	2.40	0	D	500	68.2	10.1	0.0	0.0	0.0	47.0	0.1	0.5	0.0	0.0	7.4	0.0	0.0	23.2
100	17596466.03	4847111.12	2.40	0	D	500	68.2	5.0	0.0	0.0	0.0	47.8	0.1	0.5	0.0	0.0	7.7	0.0	0.0	17.0
106	17596456.93	4847120.62	2.40	0	D	500	68.2	9.3	0.0	0.0	0.0	46.5	0.1	0.7	0.0	0.0	5.9	0.0	0.0	24.3
121	17596483.51	4847128.61	2.40	0	D	500	68.2	10.3	0.0	0.0	0.0	49.8	0.2	0.8	0.0	0.0	4.2	0.0	0.0	23.6
124	17596484.70	4847133.95	2.40	0	D	500	68.2	-8.6	0.0	0.0	0.0	49.9	0.2	0.9	0.0	0.0	0.0	0.0	0.0	8.6
126	17596483.99	4847134.88	2.40	0	D	500	68.2	3.5	0.0	0.0	0.0	49.9	0.2	1.0	0.0	0.0	0.0	0.0	0.0	20.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
108	17596539.65	4847145.93	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.2	0.5	-2.1	0.0	0.0	0.0	0.0	0.0	28.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
112	17596544.39	4847122.39	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.4	0.5	-1.6	0.0	0.0	7.5	0.0	0.0	20.8

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
119	17596560.27	4847145.51	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	55.3	0.6	-2.2	0.0	0.0	4.3	0.0	0.0	23.6

Receiver
 Name: R3 - Facade
 ID: R3
 X: 17596313.61 m
 Y: 4847149.13 m
 Z: 2.00 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
12	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	53.8	0.3	2.4	0.0	0.0	3.6	0.0	0.0	35.4

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
14	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	53.9	0.3	2.4	0.0	0.0	3.6	0.0	0.0	35.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
16	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.4	0.5	-0.8	0.0	0.0	6.3	0.0	0.0	21.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
18	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.5	0.6	-0.9	0.0	0.0	6.2	0.0	0.0	21.2

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
29	17596436.37	4847113.71	2.40	0	D	500	68.2	6.6	0.0	0.0	0.0	53.1	0.2	2.4	0.0	0.0	0.0	0.0	0.0	19.1
46	17596420.90	4847094.24	2.40	0	D	500	68.2	16.5	0.0	0.0	0.0	52.6	0.2	2.4	0.0	0.0	4.1	0.0	0.0	25.4
55	17596402.52	4847071.09	2.40	0	D	500	68.2	11.4	0.0	0.0	0.0	52.5	0.2	2.4	0.0	0.0	4.2	0.0	0.0	20.4
57	17596465.23	4847127.76	2.40	0	D	500	68.2	17.8	0.0	0.0	0.0	54.7	0.3	2.3	0.0	0.0	0.0	0.0	0.0	28.7
59	17596378.11	4847056.91	2.40	0	D	500	68.2	14.5	0.0	0.0	0.0	52.0	0.2	2.7	0.0	0.0	5.6	0.0	0.0	22.2
64	17596365.47	4847041.95	2.40	0	D	500	68.2	10.4	0.0	0.0	0.0	52.5	0.2	2.7	0.0	0.0	0.0	0.0	0.0	23.2
66	17596384.21	4847064.12	2.40	1	D	500	68.2	9.7	0.0	0.0	0.0	58.1	0.4	2.8	0.0	0.0	3.1	0.0	0.0	13.5
68	17596371.57	4847049.17	2.40	1	D	500	68.2	14.8	0.0	0.0	0.0	57.4	0.4	2.7	0.0	0.0	0.0	0.0	0.0	22.5
110	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	57.2	0.4	1.9	0.0	0.0	0.0	0.0	0.0	24.5
117	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	58.3	0.4	1.2	0.0	0.0	0.0	0.0	0.0	25.1
120	17596393.42	4847066.51	2.40	0	D	500	68.2	9.9	0.0	0.0	0.0	52.2	0.2	2.5	0.0	0.0	4.6	0.0	0.0	18.5
122	17596387.93	4847067.53	2.40	0	D	500	68.2	1.7	0.0	0.0	0.0	51.9	0.2	2.7	0.0	0.0	5.4	0.0	0.0	9.8
123	17596396.90	4847065.86	2.40	1	D	500	68.2	4.2	0.0	0.0	0.0	58.5	0.5	2.3	0.0	0.0	0.0	0.0	0.0	11.1
125	17596391.41	4847066.88	2.40	1	D	500	68.2	9.3	0.0	0.0	0.0	58.4	0.5	2.6	0.0	0.0	2.7	0.0	0.0	13.4
137	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	56.3	0.4	2.6	0.0	0.0	0.0	0.0	0.0	19.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
85	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	51.4	0.4	0.2	0.0	0.0	13.7	0.0	0.0	15.9

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
87	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.0	0.4	0.1	0.0	0.0	7.8	0.0	0.0	21.3

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
89	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	54.4	0.5	-0.8	0.0	0.0	6.3	0.0	0.0	21.2

Receiver
 Name: R4 - Rear
 ID: R4
 X: 17596340.84 m
 Y: 4847137.58 m
 Z: 1.50 m

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
10	17596406.18	4847046.26	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	52.0	0.2	4.6	0.0	0.0	2.0	0.0	0.0	36.6

Point Source, ISO 9613, Name: "Pneumatic", ID: "PNEU"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
17	17596401.94	4847040.60	2.00	0	D	500	117.0	0.0	-21.6	0.0	0.0	52.2	0.2	4.6	0.0	0.0	1.9	0.0	0.0	36.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
22	17596422.79	4847048.63	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.7	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
24	17596443.12	4847072.52	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.7	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

Line Source, ISO 9613, Name: "Truck Movements", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
26	17596436.87	4847114.34	2.40	0	D	500	68.2	4.7	0.0	0.0	0.0	50.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	17.3
28	17596427.51	4847102.56	2.40	0	D	500	68.2	14.3	0.0	0.0	0.0	50.4	0.2	4.5	0.0	0.0	2.5	0.0	0.0	25.0
30	17596410.62	4847081.30	2.40	0	D	500	68.2	14.3	0.0	0.0	0.0	50.1	0.2	4.5	0.0	0.0	2.8	0.0	0.0	25.0
32	17596400.18	4847068.14	2.40	0	D	500	68.2	8.1	0.0	0.0	0.0	50.2	0.2	4.5	0.0	0.0	2.7	0.0	0.0	18.7
33	17596465.23	4847127.76	2.40	0	D	500	68.2	17.8	0.0	0.0	0.0	52.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	28.2
39	17596382.09	4847061.61	2.40	0	D	500	68.2	12.0	0.0	0.0	0.0	49.7	0.2	4.7	0.0	0.0	3.9	0.0	0.0	21.7
40	17596372.23	4847049.95	2.40	0	D	500	68.2	11.7	0.0	0.0	0.0	50.4	0.2	4.9	0.0	0.0	3.5	0.0	0.0	21.0
44	17596364.71	4847041.05	2.40	0	D	500	68.2	9.4	0.0	0.0	0.0	51.0	0.2	4.9	0.0	0.0	0.0	0.0	0.0	21.6
48	17596386.57	4847066.91	2.40	1	D	500	68.2	2.9	0.0	0.0	0.0	58.0	0.4	5.3	0.0	0.0	0.2	0.0	0.0	7.2
50	17596381.71	4847061.17	2.40	1	D	500	68.2	11.2	0.0	0.0	0.0	57.8	0.4	5.2	0.0	0.0	0.0	0.0	0.0	16.0
52	17596374.57	4847052.71	2.40	1	D	500	68.2	15.9	0.0	0.0	0.0	58.5	0.5	5.3	0.0	0.0	0.0	0.0	0.0	19.9
76	17596392.69	4847066.65	2.40	0	D	500	68.2	10.5	0.0	0.0	0.0	49.9	0.2	4.6	0.0	0.0	3.2	0.0	0.0	20.9
78	17596392.13	4847066.75	2.40	1	D	500	68.2	9.0	0.0	0.0	0.0	58.2	0.4	4.9	0.0	0.0	0.0	0.0	0.0	13.6
90	17596387.74	4847067.57	2.40	1	D	500	68.2	0.3	0.0	0.0	0.0	58.1	0.4	5.3	0.0	0.0	0.1	0.0	0.0	4.6
95	17596516.89	4847131.84	2.40	0	D	500	68.2	15.7	0.0	0.0	0.0	55.9	0.3	4.3	0.0	0.0	0.0	0.0	0.0	23.4
101	17596545.91	4847139.18	2.40	0	D	500	68.2	16.9	0.0	0.0	0.0	57.2	0.4	3.8	0.0	0.0	0.0	0.0	0.0	23.7
132	17596497.61	4847141.90	2.40	0	D	500	68.2	10.2	0.0	0.0	0.0	54.9	0.3	5.1	0.0	0.0	0.0	0.0	0.0	18.2

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
58	17596405.40	4847098.40	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	48.6	0.3	0.6	0.0	0.0	13.7	0.0	0.0	18.5

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
62	17596419.86	4847113.91	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	49.3	0.3	0.5	0.0	0.0	8.8	0.0	0.0	22.7

Point Source, ISO 9613, Name: "Beeper", ID: "BEEP"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
70	17596431.59	4847059.53	2.00	0	D	1000	115.0	0.0	-33.4	0.0	0.0	52.6	0.4	-0.4	0.0	0.0	7.4	0.0	0.0	21.5

APPENDIX C: REFERENCES

1. Cadna/A Computer Aided Noise Abatement, Version 2023.
2. Ministry of the Environment, "Publication NPC-300, Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning," August 2013.