Noise Impact Analysis

Lewis Pit Expansion

West Half of Lot 15, Concession 9
Springwater

January 28, 2022
Project: 119-0362

Prepared for

Galibier Materials Inc.

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VALCOUSTICS
Canada Ltd.

Version History

Version #	Date	Comments
1.0	December 1, 2021	Final – Issued to Client
2.0	January 28, 2022	Final – based on revised Operational Plan

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Noise Impact Analysis

Lewis Pit Expansion

West Half of Lot 15, Concession 9
Springwater

1.0 INTRODUCTION

1.1 PURPOSE

Valcoustics Canada Ltd. (VCL) previously prepared a Noise Impact Analysis dated December 1, 2021 for the Galibier Materials Inc. proposed expansion to their existing Galibier Lewis Pit. The purpose of the noise impact analysis is to:

- Identify the potential noise sources;
- predict the resulting sound levels at noise sensitive receptors due to the operation of the pit; and
- provide recommendations for mitigation measures to meet the Ministry of the Environment, Conservation and Parks (MECP) environmental noise guideline limits.

This update has been prepared to account for the most current version of the Operational Plan prepared by MTE Consultants Inc., dated January 2022.

1.2 SITE

The existing Galibier Lewis Pit is located at:

- West half of Lot 15 Concession 9
- Formerly Vespra, now Springwater, Ontario.

The site is on the east side of George Johnston Road just north of Seadon Road. The expansion will be to the south of the existing pit and extends to Seadon Road.

The existing pit and proposed expansion are surrounded by:

- A licensed pit owned by the Township of Springwater with vacant wooded lands, a rail line, Snow Valley Road and a hydro corridor beyond, to the north;
- Vacant wooded lands with residential development to the east;

- Seadon Road with some existing residences, vacant wooded lands and agricultural lands beyond to the south; and
- George Johnston Road with vacant lands, a former Simcoe County Landfill and some existing residences beyond to the west.

The Snow Valley ski resort is about 500 m to the northeast of the existing pit.

See Figure 1 for a Key Plan.

1.3 NOISE SENSITIVE RECEPTORS

A noise sensitive land use is defined as the property of a person that accommodates a dwelling (including a campsite), a building used for a noise-sensitive commercial purpose or a building used for a noise-sensitive institutional purpose. A noise sensitive commercial purpose building is used for commercial purposes and includes one or more habitable rooms used as sleeping facilities such as a hotel or motel. A noise sensitive institutional purpose building means a building used for an institutional purpose, including an educational facility, a day nursery, a hospital, a health care facility, a shelter for emergency housing, a community centre, a place of worship, a detention centre, etc.

The noise study has included the closest existing noise sensitive receptors to the west, south and east of the expansion area. The noise study has also assessed two vacant parcels to the south of the site where the existing zoning permits a noise sensitive land use, in accordance with the MECP noise guideline requirements.

See Figure 2 for the noise sensitive receptor locations that were analysed in detail. Other existing noise sensitive land uses are significantly further from the site and benefit from the acoustical screening provided by intervening dense woods and will receive lower sound levels from the proposed pit operations. Thus, compliance with the MECP noise guideline limits at the closest noise sensitive receptors should inherently result in compliance with the MECP noise guideline limits at all of the noise sensitive receptors.

There are two vacant parcels to the south. Since the parcels are greater than 1 hectare in area, the MECP assessment requirement is to select a 1-hectare area and assess a point in the centre of the area. The 1-hectare areas are shown in cyan on Figure 2. Note that the analysis points have a similar setback from Seadon Road as the dwellings at R3, consistent with the MECP guideline requirements.

2.0 PROGRAMME OF OPERATION

Initially, overburden and topsoil will be removed to expose the material for extraction. The site has mainly sand but there are also some crushable materials. Overburden and topsoil removal should be a relatively short-lived activity that will be done progressively on an as needed basis. The material will be stored on site and later used for rehabilitation.

Aggregate extraction will generally progress from the existing pit to the south, progressing through four phases. Appendix A contains the Operational Plan.

For Phases 1 and 2, portable processing will be done in close proximity to the active face of extraction. The equipment that will operate at the extraction face is two crushers, three screening plants, two stacking conveyors, three front end loaders and shipping trucks.

For Phases 3 and 4, the portable processing equipment will operate within a designated processing area located at the base of the existing pit. A front-end loader will load extracted material directly into haul trucks who will transport the material to the processing area. A maximum of 750,000 tonnes of aggregate per year could be shipped from the site. This license limit maintains the same maximum as the existing pit.

The pit can ship up to 10,000 tonnes of material in a day. Using a 10-hour shipping day and applying a 50% increase to determine the worst-case hourly volume, it is estimated a maximum of about 43 loads of aggregate could be shipped in an hour. This truck volume is considered worst case and is expected to only occur very rarely.

All extraction, processing and shipping activities will occur at the bottom elevation of the extraction face, corresponding to a first lift elevation of 8 m below existing grade.

3.0 ENVIRONMENTAL NOISE GUIDELINES

The applicable noise guideline limits for the proposed quarry operation are in MECP Publication NPC-300, *"Environmental Guideline, Stationary and Transportation Sources - Approval and Planning"*.

As per NPC-300, an aggregate extraction facility is a stationary noise source. Please note that the MECP terminology "stationary source" refers to the site as a whole, including the composite effect of all of the individual sound sources, even if they can actually move around the site. Thus, source, as referred to above, means the site (operation) as a whole.

The MECP noise guidelines require that the noise assessment determine the "predictable worst case" impacts. Thus, the assessment needs to evaluate the largest possible excess over the noise guideline limits based on the proposed operations in any hour of operation.

3.1 ON-SITE OPERATIONS

Noise sensitive receptors in this case are residential uses and the vacant parcels whose existing zoning permits a residential dwelling. All receptors were modelled at a 4.5 m height representing the upper floor of a two-storey dwelling. The closest receptors to the site are considered Class 2. A Class 2 area has an acoustical environment that is dominated by the activities of people, usually road traffic, during the daytime (07:00 to 19:00) but has a low evening and night background sound level defined by the natural environment and infrequent human activity. See Glossary of Terms for Definitions of Class 1, Class 2 and Class 3 areas.

The environmental sound level guidelines for Class 2 Areas are found in the MECP Publication NPC-300, *"Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning."* For Class 2 Areas, the sound from the source (L_{eq} in any hour) should not exceed the ambient one-hour L_{eq} at the receptors of concern, in the corresponding hour.

Notwithstanding the above, for a Class 2 Area, no mitigation is required for any source that does not exceed 50 dBA (one-hour L_{eq}), at any off-site receptor of concern between the hours of 0700 and 1900 hours (daytime). Between 1900 and 0700 hours (nighttime), a 45 dBA limit is applicable.

3.2 OFF-SITE HAUL ROUTE

There are no specific statutes, regulations, formal policies under the Planning Act applicable to adding licensed motor vehicles to public roadways and dealing with noise. There is, however, a draft MECP Noise Guidelines for Landfill Sites that provides guidance on assessing the noise impacts along the haul routes to and from the landfill site. These haul route requirements are often used for gravel pit applications. The draft Landfill Guideline has been used to assess the noise impacts from trucks travelling to and from the site along the off-site haul route.

The assessment requires that an access route for off-site source vehicles be selected which results in a minimum noise impact. A detailed quantitative assessment is to be completed that determines the potential noise impact on the receptor locations. The noise impacts are to be assessed using the qualitative ratings in Table 1 which are taken directly from the landfill noise guideline document.

TABLE 1 QUALITATIVE NOISE IMPACT

Sound Level Increase (dB)	Qualitative Rating
1 to 3	Insignificant
3 to 5	Noticeable
5 to 10	Significant
10 and over	Very Significant

4.0 APPLICABLE ENVIRONMENTAL NOISE GUIDELINE LIMITS

To be conservative, the MECP exclusion limits for a Class 2 Area have been applied for activities in the pit. These are the most stringent applications of the noise guideline limits. Note that the assessment determines the overall sound levels from the proposed expansion. Note that activities will occur in both the existing pit (such as shipping truck movements) and the proposed expansion area (such as the extraction).

5.0 ANALYSIS

5.1 ON-SITE OPERATIONS

The pit operation is a dynamic, continually changing process that moves across the site. The site operations consist of various components:

- site preparation, including the removal of trees and the stripping of topsoil and overburden;
- aggregate extraction;
- the transporting and processing of aggregate;
- rehabilitation; and
- miscellaneous construction activities.

The MECP defines construction as "*a temporary activity which includes erection, alteration, repair, dismantling, demolition, structural maintenance, painting, moving, land clearing, earth moving, grading, excavating, the laying of pipe and conduit whether above or below ground level, street and highway building, concreting, equipment installation and alteration and the structural installation of construction components and materials in any form or for any purpose, and includes any work in connection therewith*". As stated in section (5) of the stationary source definition in MECP Publication NPC-300, temporary construction activities are not considered stationary sources where MECP approvals are required (Part B of NPC-300), such as an ECA or EASR, and where land use approvals are required (Part C of NPC-300).

Temporary construction activities at the pit include site preparation (clearing of trees and removal of topsoil/overburden, construction of access roads and infrastructure such as scale and offices, construction of noise mitigation features such as perimeter berms, etc.) and rehabilitation (removal of buildings constructed on site, dismantling of noise mitigation features, earth moving, etc.). These activities are not chronic and are excluded from the stationary noise source assessment as outlined above. However, equipment used for construction must comply with the sound emission limits outlined in MECP Publication NPC-115, *"Construction Equipment".*

It is not possible to determine the duration of the construction activities. This will depend on several factors including the amount of equipment that is used, the conditions encountered on-site such as the depth of overburden, the market demand which will determine the area of site preparation required, how often site preparation is to be done (i.e. annually, every other year, etc.) and the area that is ready for rehabilitation. However, it is expected that construction will be done on an as needed basis over the life of the pit.

The hours of operation at the pit expansion will be the same as at the existing pit. There are no time restrictions at the existing pit although operations generally occur between 0600 to 1800 hours Monday to Friday and 0600 to 1700 hours on Saturday.

For Phases 1 and 2, the worst-case operations are:

- Extraction and processing equipment operating at the bottom of the first lift, 8 m below grade (daytime only);
- Loading of shipping trucks near the processing equipment (daytime and nighttime);
- Up to 3 front end loaders, 3 screens, 2 crushers and 2 stackers can operate at the working face; and
- Shipping trucks travelling north, using the entrance/exit at the existing gravel pit (daytime and nighttime) to the processing area where material is stockpiled. Up to 43 loads of aggregate could be shipped off site in an hour.

For Phases 3 and 4, the worst-case operations are:

- Extraction equipment (1 front end loader) operating at the bottom of the first lift, 8 m below grade (daytime only), and loading material directly onto haul trucks;
- Up to two haul trucks transporting extracted aggregate to the processing area at the bottom elevation of the existing pit;

- Processing of extracted material using 2 crushers, 2 screens and 2 stackers) located at the bottom elevation of the existing pit;
- Shipping trucks being loaded by two front end loaders from stockpiles of material created near the processing area. Shipping trucks travel to and from the site entrance. Up to 43 loads of aggregate could be shipped off site in an hour.

The equipment sound emission levels used in our analysis are listed in Table 2. The sound levels in the table were determined from measurements done at other similar operating facilities or are the maximum sound emission level provided by the equipment manufacturer.

TABLE 2 EQUIPMENT SOUND LEVEL SUMMARY

Type	Maximum Sound Emission Level (dBA)
Front End Loader	74 @ 15 m
Crusher	81 @ 15 m
Screening Plant	81 @ 15 m
Stacker	71 @ 15 m
On-Site Haul Trucks	81 @ 15 m
Shipping Trucks	78 @ 15 m(1)

Note:

(1) Sound level of one truck travelling at 20 km/hr.

To ensure the off-site sound levels do not exceed those predicted herein, sound emission levels from equipment to be used on site should be measured to ensure they do not exceed the levels outlined herein or, for equipment brought on site on an as-needed basis, they have appropriate portable Certificates of Approval (C's of A) or Environmental Compliance Approvals (ECA's).

To assess the noise impact at the noise sensitive receptor locations, a 3-D acoustical model of the proposed operations was developed using the CadnaA V2020 environmental noise modelling software. The model uses the prediction algorithms outlined in International Standards Organization (ISO) Standard 9613-2:1996*, "Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation"*. The modelling technique is an approach that is acceptable to the MECP.

5.2 HAUL ROUTE

Since the annual extraction limit for the proposed expansion is the same as for the existing pit, the volume of trucks travelling to and from the site is not expected to change. Thus, the noise impacts along the off-site haul route are not expected to change.

Thus, in accordance with the draft MECP Noise Guidelines for Landfill Sites, the continued use of the existing site entrance and haul route (i.e., George Johnston Road) results in the minimum noise impact and the off-site haul route has not been considered further.

6.0 RESULTS

The predicted worst case unmitigated sound levels for each receptor are shown in Table 3. The table shows the worst-case sound levels predicted at each receptor. Detailed analyses were done to determine the extraction location where the worst case (i.e., highest) sound levels would occur for each receptor. Figure 2 shows the approximate worst case extraction locations for the closest receptors. To minimize the number of figures, the actual worst-case location for each receptor is not shown. It must be noted that the worst-case location is not the closest approach to each receptor. This is because there will be less equipment operating within the pit during Phases 3 and 4 of the operation and variances in the amount of extraction face and ground attenuation that occur.

Appendix B contains additional calculation details.

TABLE 3 WORST-CASE SOUND LEVELS – NO MITIGATION

Receptor	Daytime (0700-1900 hours)		Nighttime (1900-2300 hours)	
	Predicted Sound Level (dBA)	Guideline Limit (dBA)	Predicted Sound Level (dBA)	Guideline Limit (dBA)
R1(1)	70	50	56	45
R2(1)	66	50	53	45
R3(2)	57	50	46	45
R4(2)	63	50	50	45
V1(2)	57	50	45	45
V2(2)	57	50	46	45

Notes:

(1) See Figure 2, right panel.

(2) See Figure 2, left panel.

6.1 MITIGATION RECOMMENDATIONS

The largest excesses above the MECP noise guideline limits (20 dBA during the daytime and 11 dBA during the nighttime) are predicted to occur at R1, east of the proposed pit expansion.

Excesses are also predicted to occur at the existing dwellings to the west and south of the expansion area and at the vacant lands to the south.

To address the noise impact from the gravel pit, sound barriers are recommended along the east, west and south portions of the site. Figure 3 shows the sound barriers needed prior to the start of extraction in Phase 1. Figure 4 shows the sound barriers needed prior to extraction in Phase 2. Figure 5 shows the sound barriers need prior to extraction in Phases 3 and 4 extraction with the processing area located within the blue circle indicated on the figures.

The sound barriers range in height from 6.0 m above grade to 8.5 m above grade. The sound barriers marked in yellow on Figures 4 and 5 correspond to the barriers that would be required if dwellings are built and occupied on the vacant lands to the south (i.e., V1 or V2). Since dwellings have not been constructed on the vacant lands, there is no need for noise mitigation to protect

them. The indicated mitigation (i.e., yellow coloured sound barrier on Figures 4 and 5) needs to be in place prior to any dwelling being occupied. If the dwelling(s) is occupied prior to the sound barrier being in place, operations at the pit should cease until the recommended sound barrier has been constructed.

Table 4 shows the worst-case mitigated sound levels.

TABLE 4 WORST-CASE SOUND LEVELS – WITH MITIGATION

Receptor	Daytime (0700-1900 hours)		Nighttime (1900-2300 hours)	
	Predicted Sound Level (dBA)	Guideline Limit (dBA)	Predicted Sound Level (dBA)	Guideline Limit (dBA)
R1	50	50	40	45
R2	48	50	37	45
R3	50	50	38	45
R4	50	50	41	45
V1	48	50	38	45
V2	49	50	39	45

Note, sound barriers must have a minimum surface density of 20 kg/m^2 and be of solid construction. Earth berms, wood, concrete, masonry, composites or other material meeting the above specification (such as fence atop a berm) can be used.

The following are suggested as best management practices:

- Back-up beepers are often a source of complaint even though their short duration does not contribute to the hourly sound level from the site operations. To reduce off-site noise impacts, where possible, alternative technologies (such as broadband alarms) should be used on the equipment operating at the site provided they meet the safety requirements of the operator. In addition, internal haul routes should be designed to minimize the need for reversing to minimize the use of back-up alarms; and
- Since the off-site noise guideline limits do not apply to construction or rehabilitation activities, as a best management practice, these activities should only be done during the daytime period (i.e., 0700 to 1900 hours) Monday to Friday, excluding statutory holidays.

Any changes to the noise mitigation and/or equipment should be reviewed by a qualified acoustical consultant to ensure sound emissions from the facility will remain in compliance with the MECP noise guideline limits.

7.0 RECOMMENDATIONS

These noise mitigation measures are recommended for the pit expansion and should be included on the Site Plans:

- Extraction and processing operations should only be done during the daytime (i.e., 0700 to 1900 hours) period. Shipping of material off-site will be consistent with the existing Lewis Pit (Licence No. 3560).
- The sound emission level for all pieces of equipment used for construction activities including site preparation and rehabilitation must comply with the limits outlined in MECP Publication NPC-115, "Construction Equipment".
- The amount and sound emission levels from the equipment operating on site must not exceed those outlined in Table 5.

TABLE 5 EQUIPMENT LIMITS

Type	Maximum Number	Maximum Sound Emission Level (dBA)
Front End Loader	3	74 @ 15 m
Crusher	2	81 @ 15 m
Screening Plant	3	81 @ 15 m
Stacker	2	71 @ 15 m
On-Site Haul Trucks	2	81 @ 15 m

- To ensure noise emissions comply with the recommendations of this report, sound emission levels from equipment to be used on site be measured to ensure they do not exceed the levels outlined herein (Table 5). For equipment brought to the site on an as-needed basis, they may have appropriate C of A's or ECA's implying that measurements would have been completed prior to approval. Note, however, that since processing will only be done below grade, there is no requirement for equipment to have a C of A or ECA to operate at this facility. If new or other equipment is brought to the site to replace an existing piece of equipment, its sound emission levels should be confirmed prior to it operating on the site.
- The depth of the first lift should be a minimum of 8 m.
- Prior to extraction, all topsoil and subsoil shall be stripped and stored separately in stockpiles or berms along the south, east and west boundaries. This topsoil and subsoil is to be used to rehabilitate the pit.
- These sound barriers are recommended:
  - Prior to Phase 1 extraction (See Figure 3):
    - A 6.0 m high sound barrier at the eastern boundary of the licensed area;
    - An 8.0 m to 8.5 m high sound barrier at the western boundary of the licensed area; and
    - A 6.0 m high sound barrier at the western portion of the southern boundary of the licensed area.

- Prior to Phase 2 extraction (See Figure 4):
  - Increase the height of the eastern boundary sound barrier to 7.0 m;
  - Retain the height of the 8.0 to 8.5 m high barrier along the western boundary; and
  - Retain the height of the 6.0 m high sound barrier along the western portion of the southern boundary. If dwellings or other noise-sensitive uses are built and occupied on the vacant lands to the south, the 6.0 m high sound barrier must extend along the entire southern boundary of the licensed area.
- Prior to Phase 3 and 4 extraction (See Figure 5):
  - Retain the sound barriers required for Phase 2.

- During extraction in Phases 1 and 2, processing equipment and loading of material onto shipping trucks must be no more than 30 m north of the extraction face. During extraction in Phases 3 and 4, processing and loading of material onto shipping trucks must be done at the bottom elevation within the existing pit.
- An off-site noise audit should be completed within 6 months of the start of extraction in the expansion area while processing operations are being done on the site to confirm the MECP noise guideline limits are not exceeded. The audit must be done by a qualified acoustical engineer.
- If alternate noise mitigation measures are to be implemented, they be reviewed and approved by a qualified acoustical consultant to ensure the MECP noise guideline limits will not be exceeded.

8.0 CONCLUSIONS

With the appropriate implementation of the mitigation measures outlined herein, the sound levels from the worst case operations on the site will be in compliance with MECP noise guideline limits.

As the operation moves over the site, sound levels at the off-site receptors will vary. The noise analysis has been approached on the basis of determining worst case conditions to ensure that the data presented does not under-predict the potential off-site sound levels.

9.0 REFERENCES

1. "Model Municipal Noise Control By-Law", Final Report, Ontario Ministry of the Environment, August 1978.

2. "Noise Emission Levels for Vehicles in Ontario", Ontario Ministry of Transportation and Communications, November 1985, H05-85-02.

3. “Stationary and Transportation Sources - Approval and Planning”, Ontario Ministry of the Environment, Publication NPC-300, October 2013.

4. “Noise Guidelines for Landfill Sites (Draft)”, Ontario Ministry of the Environment, October 1998.

5. PC STAMSON 5.04, “Computer Program for Road Traffic Noise Assessment”, Ontario Ministry of the Environment.

6. “Acoustics – Attenuation of Sound During Propagation Outdoors – Part 2: General Method of Calculation”, ISO 9613-2, December 15, 1996.

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GLOSSARY OF TERMS

Class 1 Area (MECP definition):

- means an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the urban hum.

Class 2 Area (MECP definition):

- means an area with an acoustical environment that has qualities representative of both Class 1 and Class 3 Areas, and in which a low ambient sound level, normally occurring only between 2300 and 0700 hours in Class 1 Areas, will typically be realized as early as 1900 hours.
- Other characteristics which may indicate the presence of a Class 2 Area include:
  - absence of urban hum between 1900 and 2300 hours;
  - evening background sound level defined by natural environment and infrequency human activity; and
  - no clearly audible sound from stationary sources other than from those under impact assessment.

Class 3 Area (MECP definition):

- means a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as the following:
  - a small community with less than 1000 population;
  - agricultural area;
  - a rural recreational area such as a cottage or a resort area; or
  - a wilderness area.

Construction (MECP definition):

- "Construction" includes erection, alteration, repair, dismantling, demolition, structural maintenance, painting, moving, land clearing, earthmoving, grading, excavating, the laying of pipe and conduit whether above or below ground level, street and highway building, concreting, equipment installation and alteration and the structural installation of construction components and materials in any form or for any purpose, and includes any work in connection therewith.

Construction Equipment (MECP definition):

- "Construction equipment" means any equipment or device designed and intended for use in construction, or material handling, including but not limited to, air compressors, pile drivers, pneumatic or hydraulic tools, bulldozers, tractors, excavators, trenchers, cranes, derricks, loaders, scrapers, pavers, generators, off-highway haulers or trucks, ditchers, compactors and rollers, pumps, concrete mixers, graders, or other material handling equipment.

Conveyance (MECP definition):

- "Conveyance" includes a vehicle and any other device employed to transport a person or persons or goods from place to place but does not include any such device or vehicle if operated only within the premises of a person.

dB - Decibel:

- See Sound (Pressure) Level.

dBA - A weighted decibel:

- A nationally and internationally standardized frequency weighting applied to the sound level spectrum to approximate the sensitivity of the human hearing mechanism as a function of frequency (pitch).

L_{eq} - The energy equivalent continuous sound level:

- The constant sound level over the time period in question, that results in the same total sound energy as the actually varying sound. Must be associated with a time period.

L_x - Statistical Sound Level Descriptor:

- The sound level exceeded for x% of the time. For all practical purposes, L90 is the residual (lowest) ambient sound level.

Sound (Pressure) Level:

- Measured in decibels (dB) it is the logarithmic ratio of the instantaneous energy of a sound to the energy at the threshold of hearing. Mathematically:

$$SPL \ \ (dB) \ \ = \ \ 20 \ \ \log \ \ (\frac{p}{p_0})$$

- where p is the pressure due to the sound and p_0 is the pressure at the threshold of hearing, taken as 20 micro Pascals.

Stationary Source (MECP definition):

- "Stationary source" means a source of sound which does not normally move from place to place and includes the premises of a person as one stationary source, unless the dominant source of sound on those premises is construction or a conveyance.

VALCOUSTICS
Canada Ltd.
consulting acoustical engineers

Title	Date	Figure
Key Plan	**2022-01-28**	**1**
Project Name	Project No.	
Lewis Pit Expansion, Springwater	**119-0362**	

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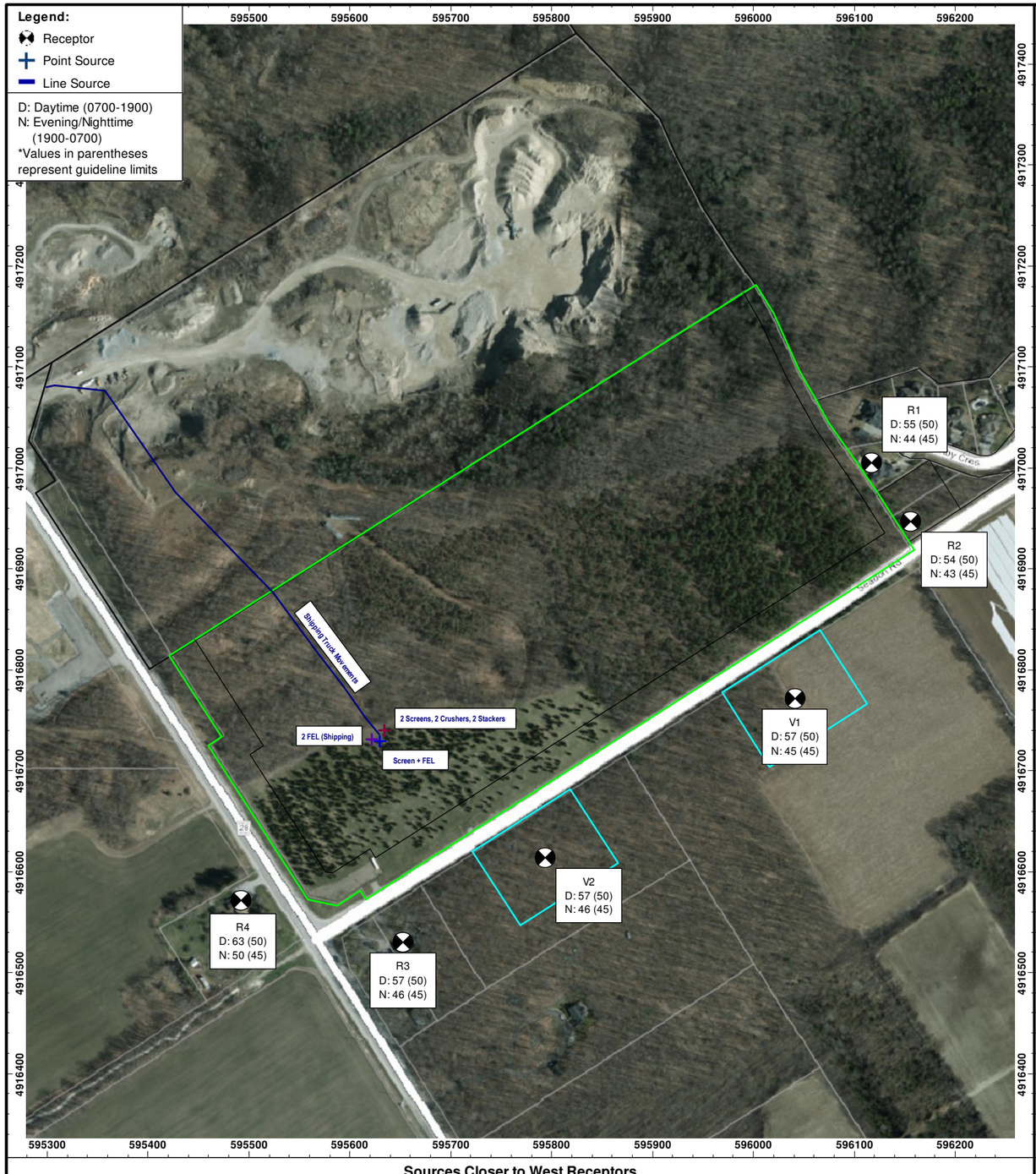
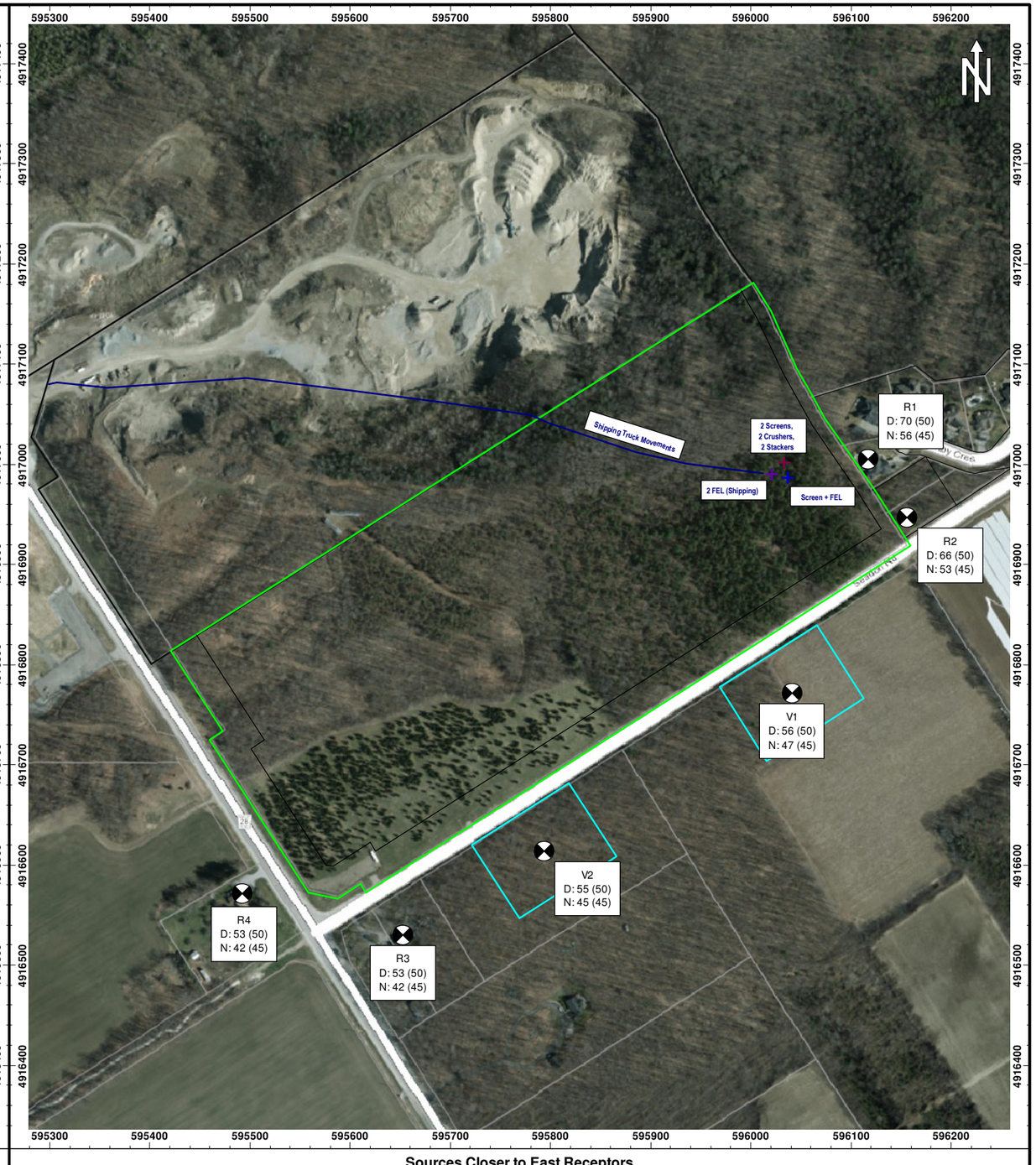
Legend:

- Receptor
- Point Source
- Line Source

D: Daytime (0700-1900)
N: Evening/Nighttime (1900-0700)
*Values in parentheses represent guideline limits



Sources Closer to West Receptors



Sources Closer to East Receptors

VALCOUSTICS Canada Ltd.
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Title
Predicted Sound Levels (dBA) - No Mitigation

Project Name
Lewis Pit Expansion, Springwater

Date
2022-01-28

Project No.
119-0362

Figure
2

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Title
Mitigation Requirements - Phase 1 Extraction

Date
2022-01-28

Figure
3

Project Name
Lewis Pit Expansion, Springwater

Project No.
119-0362

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Date Plotted: 28.01.22

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Title
Mitigation Requirements - Phase 2 Extraction

Date
2022-01-28

Figure
4

Project Name
Lewis Pit Expansion, Springwater

Project No.
119-0362

J:\2019\119036\2000\Analysis\Cadna\2022-01-28\Phase 2 Mit.cna

Date Plotted: 28.01.22

VALCOUSTICS Canada Ltd.
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Title
Mitigation Requirements - Phases 3 and 4 Extraction

Date
2022-01-28

Figure
5

Project Name
Lewis Pit Expansion, Springwater

Project No.
119-0362

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Date Plotted: 28.01.22

APPENDIX A
OPERATIONAL PLAN

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MTE FILE PATH:

OPERATIONAL PLAN NOTES:

MAXIMUM AREA TO BE EXTRACTED:

1. THE AREA TO BE EXTRACTED IS 17.5 HECTARES.

MAXIMUM TONNAGE LIMIT:

2. THE AMOUNT OF AGGREGATE TO BE REMOVED FROM THE SITE SHALL NOT EXCEED 750,000 TONNES/YEAR.
3. THE TOTAL COMBINED ANNUAL LIMIT FOR THE EXISTING LEWIS PIT (LICENCE NO. 3560) PLUS THE EXPANSION WILL NOT EXCEED 750,000 TONNES/YEAR.

HOURS OF OPERATION:

4. EXTRACTION AND PROCESSING OPERATIONS SHALL ONLY BE DONE DURING THE DAYTIME (ie. 7:00am TO 7:00pm)
5. SHIPPING WILL BE CONSISTENT WITH THE EXISTING LEWIS PIT (LICENSE NO. 3560) SHIPPING MAY OCCUR 24hrs./DAY, 7 DAYS/ WEEK

ENTRANCE AND EXIT:

6. THE ENTRANCE AND EXIT TO THE SITE IS BY WAY OF A LEGAL RIGHT-OF-WAY IN CONJUNCTION WITH THE TOWNSHIP OF SPRINGWATER PIT TO THE NORTH AS SHOWN ON SHEET 1 OF 4. THIS ENTRANCE/EXIST PROVIDES THE LEAST AMOUNT OF DISTURBANCE FROM TRUCK TRAFFIC.
7. THE ENTRANCE/EXIT TO AND FROM THE SITE WILL BE ALONG THE NORTHERN LICENSED BOUNDARY AND WILL EXIT THROUGH THE EXISTING LEWIS PIT TO THE NORTH.
8. AGGREGATE WILL BE DELIVERED TO THE MARKET USING SIMCOE COUNTY ROAD 28 (GEORGE JOHNSTON ROAD). IF REQUIRED, DELIVERIES TO THE LOCAL MARKET MAY ACCESS LOCAL MUNICIPAL ROADS. THE ENTRANCE/EXIT WILL BE GATED AND LOCKED WHEN THE PIT IS NOT IN USE.
9. THERE ARE THREE ENTRANCES/EXISTS TO THE SITE FROM SEADON ROAD THAT WILL BE USED FOR PROPERTY MAINTENANCE ACCESS.

PROPOSED FENCING:

10. A 1.2-METER-HIGH POST AND WIRE FENCE SHALL BE INSTALLED OR MAINTAINED ALONG GEORGE JOHNSTON ROAD, SEADON ROAD, AND THE EASTERN LICENSED BOUNDARY PRIOR TO EXTRACTION. THE FENCING SHALL CONFORM TO THE PROVINCIAL STANDARD OF THE AGGREGATE RESOURCES ACT AND SHALL BE MAINTAINED FOR THE LIFE OF THE PIT.
11. NO FENCING WILL BE INSTALLED ALONG THE NORTHERN BOUNDARY AS PER THE SITE PLAN VARIATIONS TABLE.

PROPOSED SETBACKS:

12. APPROPRIATE SETBACKS SHALL BE MAINTAINED AS DRAWN ON THIS PLAN: 15 METERS ALONG THE EAST BOUNDARY, 30 METERS ALONG SEADON ROAD, 30 METERS ALONG GEORGE JOHNSTON ROAD, AND NO SETBACK IS REQUIRED ALONG THE NORTH BOUNDARY AS DETAILED ON THE SITE PLAN VARIATIONS TABLE.

PHASING AND PIT DEVELOPMENT:

13. EXTRACTION WILL CONTINUE FROM THE EXISTING LEWIS PIT AND MOVE SOUTH AS SHOWN ON THE PLAN. THE AGGREGATE SEQUENCE OF THE PIT WILL CONSIST OF 4 PHASES AND WILL OCCUR IN THE SEQUENCE PROPOSED. THE EXTRACTION OPERATIONS WILL FOLLOW THE GENERAL DIRECTION OF THE ARROWS AS SHOWN UNTIL THE LIMIT OF EXTRACTION OF EACH PHASE IS REACHED.
14. THE PROCESSING AREA WILL FOLLOW THE ACTIVE FACE OF EXTRACTION OR BE LOCATED IN THE EXISTING LEWIS PIT.
15. DUE TO THE VARIABILITY OF THE AGGREGATE QUALITIES AND MARKET DEMANDS, EXTRACTION MAY OCCUR SIMULTANEOUSLY WITHIN TWO SEQUENTIAL PHASES. ONCE THE FIRST LIFT HAS BEEN ESTABLISHED, PROCESSING AND STOCKPILING MAY OCCUR ANYWHERE IN THE ACTIVE EXTRACTION AREA.
16. THE SITE SHALL BE MAINTAINED AND OPERATED IN AN ORDERLY MANNER.
17. PHASE 4 WILL BE THE LAST PHASE TO BE EXTRACTED SO THAT A WILDLIFE CORRIDOR IS MAINTAINED ACROSS THE SITE DURING EXTRACTION. PHASE 4 WILL BE EXTRACTED AFTER REHABILITATION HAS BEEN COMPLETED ALONG THE WESTERN BOUNDARY, WHICH WILL PROVIDE AN ALTERNATE WILDLIFE CORRIDOR WHILE PHASE 4 IS BEING EXTRACTED.

SITE PREPARATION, TOPSOIL AND OVERBURDEN STRIPPING:

18. PRIOR TO EXTRACTION, ALL TOPSOIL AND SUBSOIL SHALL BE STRIPPED AND STORED SEPARATELY IN STOCKPILES OR BERMS ALONG THE SOUTH, EAST AND WEST BOUNDARIES. THIS TOPSOIL AND SUBSOIL IS TO BE USED TO REHABILITATE THE PIT.
19. TOPSOIL AND SUBSOIL STOCKPILES SHALL BE SEEDED WITH A GRASS/LEGUME MIXTURE TO PREVENT EROSION AND DUST. THE VEGETATION SHALL BE MAINTAINED TO PREVENT UNSIGHTLY WEED GROWTH.
20. ALL TREES MAY BE HARVESTED AND SOLD AS LUMBER AND/OR FIREWOOD. STUMPS SHALL BE BURNED AND/OR STORED WITHIN THE LICENSED AREA UNTIL REQUIRED FOR REHABILITATION.
21. PRIOR TO EXTRACTION, CLEARING AND GRUBBING OF TREES SHALL TAKE PLACE AS REQUIRED.

EXTRACTION LIFTS:

22. EXTRACTION OF AGGREGATE WILL BE CONDUCTED IN 6 TO 8 LIFTS DEPENDENT ON AGGREGATE QUALITY AND TYPE AND SIZE OF EXCAVATION EQUIPMENT. MAXIMUM HEIGHT OF EACH LIFT WILL BE 8 METERS AND SHALL BE OPERATED IN COMPLIANCE WITH THE MINISTRY OF LABOUR (MOL) REQUIREMENTS (MAXIMUM HEIGHT OF 1.5M ABOVE THE REACH OF EQUIPMENT USED FOR REMOVAL OF AGGREGATE).

BERMING:

23. BERM CONSTRUCTION WILL BE ESTABLISHED AS SHOWN ON THE SITE PLAN AND DESIGNED ACCORDING TO THE SPECIFICATIONS NOTED IN THE NOISE MITIGATION MEASURES RECOMMENDATIONS (SHEET 4 OF 4).
24. ALL BERMS SHALL BE SEEDED WITH GRASS/LEGUME MIXTURES TO PREVENT EROSION AND DUST FROM LEAVING THE SITE.

AGGREGATE STOCKPILING:

25. TEMPORARY STOCKPILES WILL BE RELOCATED IN THE ACTIVE AREA AS REQUIRED BUT WILL REMAIN AT LEAST 30 METERS AWAY FROM THE LICENSE BOUNDARY EXCEPT ALONG THE NORTH BOUNDARY AS DETAILED IN THE SITE PLAN VARIATIONS TABLE.
26. MULTIPLE PIT FACES MAY BE OPERATED SIMULTANEOUSLY AS THE PIT AREA EXPANDS AND THE PIT FLOOR ALLOWS FOR STOCKPILING OF AGGREGATE PRODUCTS.

EQUIPMENT:

27. EQUIPMENT TO BE USED ON SITE MAY INCLUDE, BUT NOT LIMITED TO:

LOADERS	WOOD GRINDERS	CRUSHERS	PORTABLE ASPHALT PLANT
EXCAVATORS	TREE SPADE TRUCKS	CONVEYORS	PORTABLE CONCRETE READY-MIX PLAN
DOZERS	SCREENING PLANTS	AGGREGATE WASHING EQUIPMENT	
TREE HARVESTERS	FEED BINS		

INTERNAL HAUL ROADS:

28. THERE IS AN INTERNAL ROAD ON THE EXISTING LEWIS PIT FROM THE ENTRANCE INTO THE PIT. INTERNAL HAUL ROADS WILL BE EXTENDED AS REQUIRED ONTO THE SITE INTO THE ACTIVE AREAS. INTERNAL HAUL ROADS MAY BE RELOCATED FROM TIME TO TIME.

GROUNDWATER TABLE AND DEPTH OF EXTRACTION:

29. THE DEPTH OF EXTRACTION SHALL REMAIN 1.5 METERS ABOVE THE MAXIMUM WATER TABLE. GROUNDWATER LEVELS WILL BE MONITORED USING MONITORING WELLS INSTALLED AT THE LOCATIONS SHOW ON THE PLAN AND IN ACCORDANCE WITH THE HYDROGEOLOGY RECOMMENDATIONS.

WATER DIVERSION/DISCHARGE:

30. NO PROPOSED SURFACE WATER DRAINAGE AND DRAINAGE FACILITIES ARE PROPOSED FOR THIS SITE. ANY WATER THAT IS CONTAINED BY THE PIT WILL INFILTRATE DOWN TO THE WATER TABLE.

ESTABLISHMENT OF PERIMETER SLOPES:

31. PERIMETER SLOPES OR EMBANKMENTS WILL BE CREATED AS THE LIMITS OF EXTRACTION ARE REACHED.
32. ALL SLOPES OR EMBANKMENTS SHALL BE CONSTRUCTED USING 3:1(MAX) SLOPES ALONG THE PIT FACES.
33. SLOPES WILL BE ESTABLISHED BY BACKFILLING WITH OVERBURDEN AND UNMARKETABLE AGGREGATE MATERIAL OR IMPORTED MATERIAL AND THEN GRADED PRIOR TO THE PLACEMENT OF THE TOPSOIL.
34. TOPSOIL WILL BE SPREAD (100mm THICK) TO GROW AND MAINTAIN A GRASS / LEGUME SEED MIXTURE SUITABLE FOR THE SOIL CONDITIONS TO PREVENT EROSION AND DUST.

IMPORTATION OF MATERIAL:

35. TOPSOIL AND IMPORTED MATERIAL MAY BE BROUGHT ON SITE AND USED DIRECTLY IN THE PROGRESSIVE REHABILITATION OF THE THE PIT AS PER THE REHABILITATION PLAN (SHEET 3 OF 4).

AGGREGATE RECYCLING:

36. THE IMPORTATION OF CONCRETE, ASPHALT, AND AGGREGATE PRODUCTS FOR RECYCLING WILL BE PERMITTED AS AN ACCESSORY USE TO THE AGGREGATE OPERATION. THE RECYCLABLE AGGREGATE MATERIAL (CONCRETE AND ASPHALT) WILL BE STOCKPILED SEPARATELY WITHIN THE ACTIVE AREA.
37. REMOVAL OF RECYCLED AGGREGATE IS TO BE ONGOING. ANY REBAR AND OTHER STRUCTURAL METAL REMOVED DURING THE PROCESSING OF RECYCLABLE CONCRETE WILL BE COLLECTED AND TEMPORARILY STORED ON THE PIT FLOOR AND REMOVED FROM THE SITE FROM TIME TO TIME.
38. RECYCLABLE MATERIALS WILL NOT BE STOCKPILED WITHIN 2 METERS OF THE MAXIMUM PREDICTED WATER TABLE.
39. IMPORTATION OF RECYCLABLE AGGREGATE MATERIALS WILL CEASE ONCE THE NATIVE AGGREGATE HAS BEEN DEPLETED FROM THE SITE. ONCE FINAL REHABILITATION HAS BEEN COMPLETED AND APPROVED IN ACCORDANCE WITH THE SITE PLAN, ALL RECYCLABLE OPERATIONS MUST CEASE.

BUILDINGS AND STRUCTURES:

40. TEMPORARY STRUCTURES LOCATED ON-SITE WILL BE REMOVED OR RELOCATED AS NECESSARY DURING PIT OPERATION.

SCRAP:

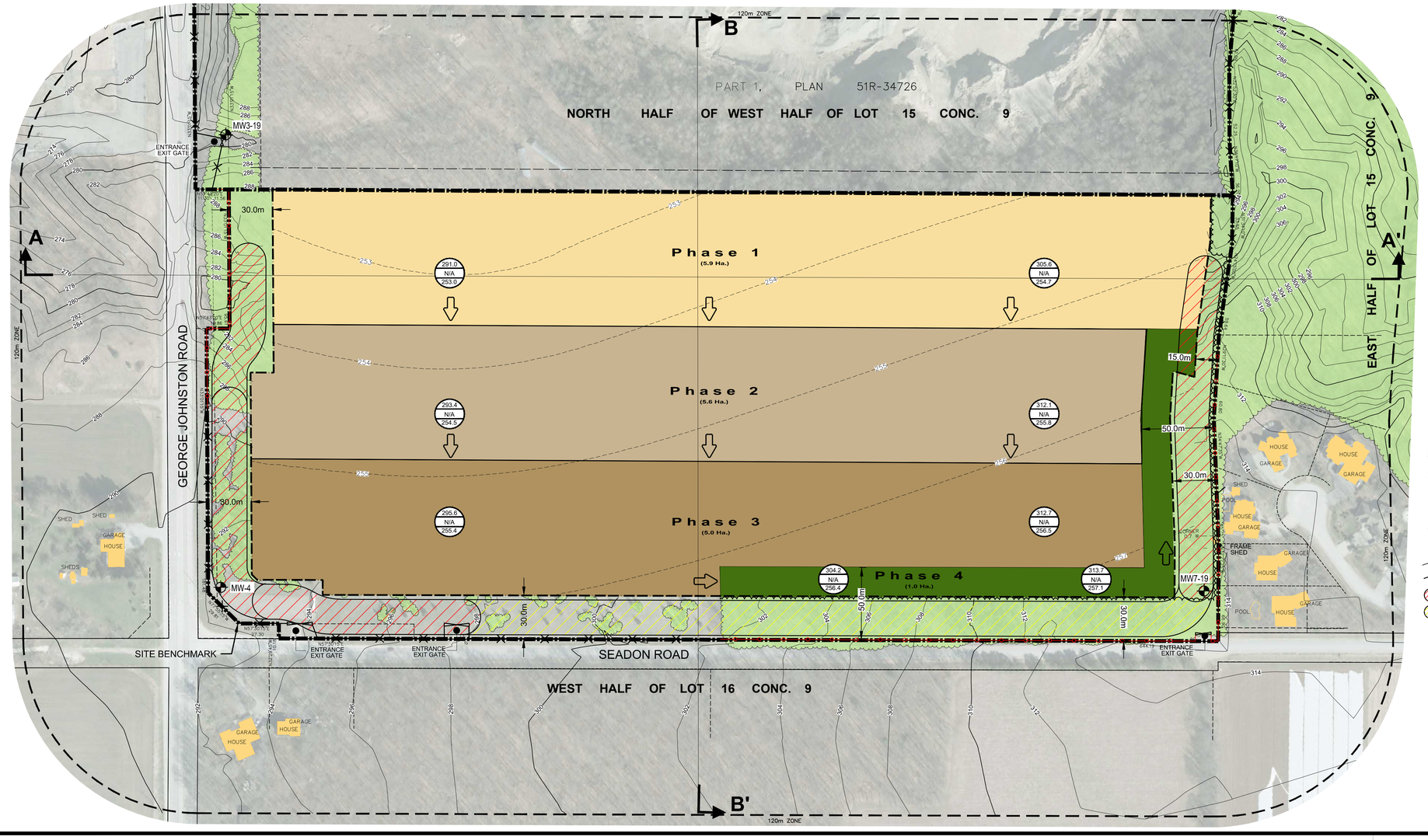
41. ANY SCRAP RESULTING FROM THE PIT OPERATIONS WILL BE COLLECTED AND TEMPORARILY STORED WITHIN THE CURRENT OPERATING PHASE IN ONE LOCATION, OR STORED IN A DESIGNATED SCRAP AREA AND WILL BE REMOVED FROM THE SITE ON AN ONGOING BASIS. NO SCRAP WILL BE LOCATED WITHIN 30 METERS OF THE LICENSED BOUNDARY.

FUEL STORAGE:

42. ALL FUELLING OF EQUIPMENT WILL BE DONE BY WAY OF FUEL TRUCKS OR PORTABLE TANKS.
43. MAJOR SERVICING OF EQUIPMENT WILL BE DONE OFF SITE, BUT SOME MINOR SERVICING WILL TAKE PLACE ON SITE. MINOR SERVICING REFERS TO TIRE CHANGES, GREASING, OIL CHANGES AND FUELLING BY MOBILE UNIT.
44. ALL PETROLEUM WASTE PRODUCTS WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH APPROVED METHODS.
45. THE SITE WILL OPERATE IN ACCORDANCE WITH THE LEWIS PIT SPILLS PLAN.

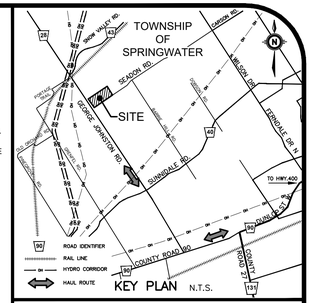
SOURCE WATER PROTECTION

46. THE SITE IS LOCATED OUTSIDE OF EXISTING WELL HEAD PROTECTION AREAS. SOURCE WATER PROTECTION POLICIES DO NOT APPLY TO THE SITE.



LEGEND

- LOT LINE
- LICENCED BOUNDARY
- LIMIT OF EXTRACTION
- 120m ZONE
- PROPOSED FENCE
- EXISTING FENCE
- Phase 1 — EXTRACTION DIRECTION AND PHASE NUMBER
- EXISTING CONTOURS
- PIT FLOOR CONTOURS
- PHASE 1 BERM
- PHASE 2,3,4 BERM (IF REQUIRED)
- 312 / N/A / 256 — EXISTING GROUND ELEVATION / REHABILITATION ELEVATION / PIT FLOOR FLOOR ELEVATION



SITE BENCHMARK ELEV. = 293.06m

TOP OF SIB LOCATED IN THE SOUTH WEST CORNER OF PROPERTY (AS SHOWN ON PLAN). ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE RTK SMARTNET NETWORK CGVD28:78

I ACKNOWLEDGE AND SHALL CARRY ON THE OPERATION OF THIS SITE IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENSE IS BASED.

David W. Kennedy — January 24, 2022 — DATE

SITE PLANS APPROVED BY:

MINISTRY OF NORTHERN DEVELOPMENT, MINES, NATURAL RESOURCES AND FORESTRY — DATE

DECLARATION OF PURPOSE

THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS 'A' LICENCE PIT ABOVE WATER.

SITE PLAN VARIATIONS

No.	VARIATION	O.Reg. Section
8.		
7.		
6.		
5.		
4.		
3.	Stockpiling may be located within 30m of the northern licensed boundary	0.13(1)13.i.
2.	Relief from fencing along north boundary Abutting lands owned by Licensee	0.13(3)a
1.	Zero setback along North boundary Licensee owns abutting lands	0.13(1)10.i.

SITE PLAN AMENDMENTS

No.	REVISION	BY	YYYY-MM-DD
8.			
7.			
6.			
5.			
4.			
3.			
2.			
1.			

MTE
Engineers, Scientists, Surveyors
519-743-6500

David W. Kennedy

CLIENT
GALIBIER MATERIALS INC.
151 Whitehall Drive — Markham, ON

PROJECT
LEWIS PIT EXPANSION
WEST 1/2 OF LOT 15, CONCESSION 9,
TOWNSHIP OF SPRINGWATER (FORMERLY VESPRA TOWNSHIP)
COUNTY OF SIMCOE, ONTARIO

DRAWING
OPERATIONAL PLAN

Project Manager: J.FLANAGAN	Project No.: 40318-400
Design By: JBF	Checked By: CJC
Drawn By: WSS	Checked By: JBF
Surveyed By: J.D.BARNES	Drawing No.: AR1.2
Date: JANUARY 2022	
Scale: 1:1500	Sheet 2 of 4

January 27, 2022 - 7:39:24 PM - Plotted By: Scott Scheifele

APPENDIX B

STATIONARY NOISE CALCULATION DETAILS

119-0362 Lewis Pit Expansion

Point Source Table

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
2 Crushers + 2 Screens + 2 Stackers		CRSH	118.3	118.3	118.3	Lw	(CRSH++SCR++STK)+3		0.0	0.0	0.0				60.00	0.00	0.00	0.0		(none)	3.50	r	595604.40	4916745.51	287.50
Screen + Loader		SCR	113.0	113.0	113.0	Lw	SCR++FEL		0.0	0.0	0.0				60.00	0.00	0.00	0.0		(none)	3.50	r	595594.06	4916746.91	286.81
Shipping - 2 loaders		SHIP	109.0	109.0	109.0	Lw	FEL+3		0.0	0.0	0.0				60.00	0.00	30.00	0.0		(none)	2.50	r	595598.87	4916753.64	286.32

Line Source Table

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(km/h)
		TRK	109.1	-10.2	109.1	82.4	-36.9	82.4	PWL-Pt	Heavy_20kph		0.0	0.0	0.0							0.0		(none)	86.0	0.0	86.0	20.0

Sound Power Levels

Name	ID	Type	Oktave Spectrum (dB)												Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Screening Plant	SCR	Lw		100.7	105.0	111.4	105.8	106.2	108.2	105.7	100.5	95.0	112.0	115.8	Measured at a similar facility
Crusher	CRSH	Lw		119.2	110.9	118.8	109.4	111.8	95.8	104.5	98.9	96.7	112.0	123.0	Measured at a similar facility
Stacker	STK	Lw		103.2	117.7	103.5	98.4	96.1	94.9	95.9	95.8	92.1	102.8	118.2	Measured at a similar facility
Front end loader	FEL	Lw		0.0	114.0	109.0	104.0	105.0	100.0	97.0	91.0	84.0	106.0	116.1	Manufacturer's data
Heavy truck movement - 20 kph	Heavy_20kph	Lw		0.0	111.8	110.3	106.4	102.6	99.7	97.7	95.6	92.1	106.1	115.3	VCL Database

Receiver
Name: R1
ID: R1
X: 596116.88 m
Y: 4917005.47 m
Z: 318.50 m

Point Source, ISO 9613, Name: "Shipping - 2 loaders", ID: "SHIP"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
58	596006.01	4916997.76	307.27	0	D	32	-36.4	0.0	0.0	0.0	0.0	52.0	0.0	-3.0	0.0	0.0	9.6	0.0	0.0	-94.9
58	596006.01	4916997.76	307.27	0	D	63	90.8	0.0	0.0	0.0	0.0	52.0	0.0	-3.0	0.0	0.0	11.7	0.0	0.0	30.2
58	596006.01	4916997.76	307.27	0	D	125	95.9	0.0	0.0	0.0	0.0	52.0	0.0	1.2	0.0	0.0	10.2	0.0	0.0	32.5
58	596006.01	4916997.76	307.27	0	D	250	98.4	0.0	0.0	0.0	0.0	52.0	0.1	1.8	0.0	0.0	12.4	0.0	0.0	32.1
58	596006.01	4916997.76	307.27	0	D	500	104.8	0.0	0.0	0.0	0.0	52.0	0.2	-0.9	0.0	0.0	18.0	0.0	0.0	35.5
58	596006.01	4916997.76	307.27	0	D	1000	103.0	0.0	0.0	0.0	0.0	52.0	0.4	-1.2	0.0	0.0	21.3	0.0	0.0	30.6
58	596006.01	4916997.76	307.27	0	D	2000	101.2	0.0	0.0	0.0	0.0	52.0	1.1	-1.2	0.0	0.0	24.2	0.0	0.0	25.2
58	596006.01	4916997.76	307.27	0	D	4000	95.0	0.0	0.0	0.0	0.0	52.0	3.7	-1.2	0.0	0.0	26.2	0.0	0.0	14.4
58	596006.01	4916997.76	307.27	0	D	8000	85.9	0.0	0.0	0.0	0.0	52.0	13.1	-1.2	0.0	0.0	26.2	0.0	0.0	-4.1
58	596006.01	4916997.76	307.27	0	N	32	-36.4	0.0	-3.0	0.0	0.0	52.0	0.0	-3.0	0.0	0.0	9.6	0.0	0.0	-97.9
58	596006.01	4916997.76	307.27	0	N	63	90.8	0.0	-3.0	0.0	0.0	52.0	0.0	-3.0	0.0	0.0	11.7	0.0	0.0	27.1
58	596006.01	4916997.76	307.27	0	N	125	95.9	0.0	-3.0	0.0	0.0	52.0	0.0	1.2	0.0	0.0	10.2	0.0	0.0	29.5
58	596006.01	4916997.76	307.27	0	N	250	98.4	0.0	-3.0	0.0	0.0	52.0	0.1	1.8	0.0	0.0	12.4	0.0	0.0	29.0
58	596006.01	4916997.76	307.27	0	N	500	104.8	0.0	-3.0	0.0	0.0	52.0	0.2	-0.9	0.0	0.0	18.0	0.0	0.0	32.5
58	596006.01	4916997.76	307.27	0	N	1000	103.0	0.0	-3.0	0.0	0.0	52.0	0.4	-1.2	0.0	0.0	21.3	0.0	0.0	27.6
58	596006.01	4916997.76	307.27	0	N	2000	101.2	0.0	-3.0	0.0	0.0	52.0	1.1	-1.2	0.0	0.0	24.2	0.0	0.0	22.2
58	596006.01	4916997.76	307.27	0	N	4000	95.0	0.0	-3.0	0.0	0.0	52.0	3.7	-1.2	0.0	0.0	26.2	0.0	0.0	11.4
58	596006.01	4916997.76	307.27	0	N	8000	85.9	0.0	-3.0	0.0	0.0	52.0	13.1	-1.2	0.0	0.0	26.2	0.0	0.0	-7.1
58	596006.01	4916997.76	307.27	0	E	32	-36.4	0.0	-188.0	0.0	0.0	52.0	0.0	-3.0	0.0	0.0	9.6	0.0	0.0	-282.9
58	596006.01	4916997.76	307.27	0	E	63	90.8	0.0	-188.0	0.0	0.0	52.0	0.0	-3.0	0.0	0.0	11.7	0.0	0.0	-157.8
58	596006.01	4916997.76	307.27	0	E	125	95.9	0.0	-188.0	0.0	0.0	52.0	0.0	1.2	0.0	0.0	10.2	0.0	0.0	-155.5
58	596006.01	4916997.76	307.27	0	E	250	98.4	0.0	-188.0	0.0	0.0	52.0	0.1	1.8	0.0	0.0	12.4	0.0	0.0	-155.9
58	596006.01	4916997.76	307.27	0	E	500	104.8	0.0	-188.0	0.0	0.0	52.0	0.2	-0.9	0.0	0.0	18.0	0.0	0.0	-152.5
58	596006.01	4916997.76	307.27	0	E	1000	103.0	0.0	-188.0	0.0	0.0	52.0	0.4	-1.2	0.0	0.0	21.3	0.0	0.0	-157.4
58	596006.01	4916997.76	307.27	0	E	2000	101.2	0.0	-188.0	0.0	0.0	52.0	1.1	-1.2	0.0	0.0	24.2	0.0	0.0	-162.8
58	596006.01	4916997.76	307.27	0	E	4000	95.0	0.0	-188.0	0.0	0.0	52.0	3.7	-1.2	0.0	0.0	26.2	0.0	0.0	-173.6
58	596006.01	4916997.76	307.27	0	E	8000	85.9	0.0	-188.0	0.0	0.0	52.0	13.1	-1.2	0.0	0.0	26.2	0.0	0.0	-192.1

Point Source, ISO 9613, Name: "2 Crushers + 2 Screens + 2 Stackers", ID: "CRSH"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
60	596010.15	4916999.32	308.37	0	D	32	83.0	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	24.9
60	596010.15	4916999.32	308.37	0	D	63	95.5	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	11.6	0.0	0.0	35.3
60	596010.15	4916999.32	308.37	0	D	125	106.5	0.0	0.0	0.0	0.0	51.6	0.0	2.4	0.0	0.0	8.9	0.0	0.0	43.6
60	596010.15	4916999.32	308.37	0	D	250	105.6	0.0	0.0	0.0	0.0	51.6	0.1	1.7	0.0	0.0	12.4	0.0	0.0	39.8
60	596010.15	4916999.32	308.37	0	D	500	112.7	0.0	0.0	0.0	0.0	51.6	0.2	-0.9	0.0	0.0	17.8	0.0	0.0	44.0
60	596010.15	4916999.32	308.37	0	D	1000	111.6	0.0	0.0	0.0	0.0	51.6	0.4	-0.9	0.0	0.0	20.7	0.0	0.0	39.8
60	596010.15	4916999.32	308.37	0	D	2000	112.6	0.0	0.0	0.0	0.0	51.6	1.0	-0.9	0.0	0.0	23.7	0.0	0.0	37.2
60	596010.15	4916999.32	308.37	0	D	4000	107.6	0.0	0.0	0.0	0.0	51.6	3.5	-0.9	0.0	0.0	25.9	0.0	0.0	27.4
60	596010.15	4916999.32	308.37	0	D	8000	101.7	0.0	0.0	0.0	0.0	51.6	12.6	-0.9	0.0	0.0	25.9	0.0	0.0	12.5
60	596010.15	4916999.32	308.37	0	N	32	83.0	0.0	-188.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	-163.1
60	596010.15	4916999.32	308.37	0	N	63	95.5	0.0	-188.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	11.6	0.0	0.0	-152.7
60	596010.15	4916999.32	308.37	0	N	125	106.5	0.0	-188.0	0.0	0.0	51.6	0.0	2.4	0.0	0.0	8.9	0.0	0.0	-144.4
60	596010.15	4916999.32	308.37	0	N	250	105.6	0.0	-188.0	0.0	0.0	51.6	0.1	1.7	0.0	0.0	12.4	0.0	0.0	-148.2
60	596010.15	4916999.32	308.37	0	N	500	112.7	0.0	-188.0	0.0	0.0	51.6	0.2	-0.9	0.0	0.0	17.8	0.0	0.0	-144.0
60	596010.15	4916999.32	308.37	0	N	1000	111.6	0.0	-188.0	0.0	0.0	51.6	0.4	-0.9	0.0	0.0	20.7	0.0	0.0	-148.2
60	596010.15	4916999.32	308.37	0	N	2000	112.6	0.0	-188.0	0.0	0.0	51.6	1.0	-0.9	0.0	0.0	23.7	0.0	0.0	-150.8
60	596010.15	4916999.32	308.37	0	N	4000	107.6	0.0	-188.0	0.0	0.0	51.6	3.5	-0.9	0.0	0.0	25.9	0.0	0.0	-160.6
60	596010.15	4916999.32	308.37	0	N	8000	101.7	0.0	-188.0	0.0	0.0	51.6	12.6	-0.9	0.0	0.0	25.9	0.0	0.0	-175.5
60	596010.15	4916999.32	308.37	0	E	32	83.0	0.0	-188.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	-163.1
60	596010.15	4916999.32	308.37	0	E	63	95.5	0.0	-188.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	11.6	0.0	0.0	-152.7
60	596010.15	4916999.32	308.37	0	E	125	106.5	0.0	-188.0	0.0	0.0	51.6	0.0	2.4	0.0	0.0	8.9	0.0	0.0	-144.4
60	596010.15	4916999.32	308.37	0	E	250	105.6	0.0	-188.0	0.0	0.0	51.6	0.1	1.7	0.0	0.0	12.4	0.0	0.0	-148.2

Point Source, ISO 9613, Name: "2 Crushers + 2 Screens + 2 Stackers", ID: "CRSH"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
60	596010.15	4916999.32	308.37	0	E	500	112.7	0.0	-188.0	0.0	0.0	51.6	0.2	-0.9	0.0	0.0	17.8	0.0	0.0	-144.0
60	596010.15	4916999.32	308.37	0	E	1000	111.6	0.0	-188.0	0.0	0.0	51.6	0.4	-0.9	0.0	0.0	20.7	0.0	0.0	-148.2
60	596010.15	4916999.32	308.37	0	E	2000	112.6	0.0	-188.0	0.0	0.0	51.6	1.0	-0.9	0.0	0.0	23.7	0.0	0.0	-150.8
60	596010.15	4916999.32	308.37	0	E	4000	107.6	0.0	-188.0	0.0	0.0	51.6	3.5	-0.9	0.0	0.0	25.9	0.0	0.0	-160.6
60	596010.15	4916999.32	308.37	0	E	8000	101.7	0.0	-188.0	0.0	0.0	51.6	12.6	-0.9	0.0	0.0	25.9	0.0	0.0	-175.5

Point Source, ISO 9613, Name: "Screen + Loader", ID: "SCR"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
69	596013.11	4916997.56	308.47	0	D	32	61.3	0.0	0.0	0.0	0.0	51.4	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	3.4
69	596013.11	4916997.56	308.47	0	D	63	88.3	0.0	0.0	0.0	0.0	51.4	0.0	-3.0	0.0	0.0	11.6	0.0	0.0	28.3
69	596013.11	4916997.56	308.47	0	D	125	97.3	0.0	0.0	0.0	0.0	51.4	0.0	2.4	0.0	0.0	8.9	0.0	0.0	34.5
69	596013.11	4916997.56	308.47	0	D	250	99.4	0.0	0.0	0.0	0.0	51.4	0.1	1.8	0.0	0.0	12.4	0.0	0.0	33.7
69	596013.11	4916997.56	308.47	0	D	500	105.5	0.0	0.0	0.0	0.0	51.4	0.2	-0.8	0.0	0.0	17.9	0.0	0.0	36.8
69	596013.11	4916997.56	308.47	0	D	1000	108.8	0.0	0.0	0.0	0.0	51.4	0.4	-0.9	0.0	0.0	20.8	0.0	0.0	37.1
69	596013.11	4916997.56	308.47	0	D	2000	107.4	0.0	0.0	0.0	0.0	51.4	1.0	-0.9	0.0	0.0	23.8	0.0	0.0	32.1
69	596013.11	4916997.56	308.47	0	D	4000	102.0	0.0	0.0	0.0	0.0	51.4	3.4	-0.9	0.0	0.0	25.9	0.0	0.0	22.1
69	596013.11	4916997.56	308.47	0	D	8000	94.2	0.0	0.0	0.0	0.0	51.4	12.2	-0.9	0.0	0.0	25.9	0.0	0.0	5.6
69	596013.11	4916997.56	308.47	0	N	32	61.3	0.0	-188.0	0.0	0.0	51.4	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	-184.6
69	596013.11	4916997.56	308.47	0	N	63	88.3	0.0	-188.0	0.0	0.0	51.4	0.0	-3.0	0.0	0.0	11.6	0.0	0.0	-159.7
69	596013.11	4916997.56	308.47	0	N	125	97.3	0.0	-188.0	0.0	0.0	51.4	0.0	2.4	0.0	0.0	8.9	0.0	0.0	-153.5
69	596013.11	4916997.56	308.47	0	N	250	99.4	0.0	-188.0	0.0	0.0	51.4	0.1	1.8	0.0	0.0	12.4	0.0	0.0	-154.3
69	596013.11	4916997.56	308.47	0	N	500	105.5	0.0	-188.0	0.0	0.0	51.4	0.2	-0.8	0.0	0.0	17.9	0.0	0.0	-151.2
69	596013.11	4916997.56	308.47	0	N	1000	108.8	0.0	-188.0	0.0	0.0	51.4	0.4	-0.9	0.0	0.0	20.8	0.0	0.0	-150.9
69	596013.11	4916997.56	308.47	0	N	2000	107.4	0.0	-188.0	0.0	0.0	51.4	1.0	-0.9	0.0	0.0	23.8	0.0	0.0	-155.9
69	596013.11	4916997.56	308.47	0	N	4000	102.0	0.0	-188.0	0.0	0.0	51.4	3.4	-0.9	0.0	0.0	25.9	0.0	0.0	-165.9
69	596013.11	4916997.56	308.47	0	N	8000	94.2	0.0	-188.0	0.0	0.0	51.4	12.2	-0.9	0.0	0.0	25.9	0.0	0.0	-182.4
69	596013.11	4916997.56	308.47	0	E	32	61.3	0.0	-188.0	0.0	0.0	51.4	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	-184.6
69	596013.11	4916997.56	308.47	0	E	63	88.3	0.0	-188.0	0.0	0.0	51.4	0.0	-3.0	0.0	0.0	11.6	0.0	0.0	-159.7
69	596013.11	4916997.56	308.47	0	E	125	97.3	0.0	-188.0	0.0	0.0	51.4	0.0	2.4	0.0	0.0	8.9	0.0	0.0	-153.5
69	596013.11	4916997.56	308.47	0	E	250	99.4	0.0	-188.0	0.0	0.0	51.4	0.1	1.8	0.0	0.0	12.4	0.0	0.0	-154.3
69	596013.11	4916997.56	308.47	0	E	500	105.5	0.0	-188.0	0.0	0.0	51.4	0.2	-0.8	0.0	0.0	17.9	0.0	0.0	-151.2
69	596013.11	4916997.56	308.47	0	E	1000	108.8	0.0	-188.0	0.0	0.0	51.4	0.4	-0.9	0.0	0.0	20.8	0.0	0.0	-150.9
69	596013.11	4916997.56	308.47	0	E	2000	107.4	0.0	-188.0	0.0	0.0	51.4	1.0	-0.9	0.0	0.0	23.8	0.0	0.0	-155.9
69	596013.11	4916997.56	308.47	0	E	4000	102.0	0.0	-188.0	0.0	0.0	51.4	3.4	-0.9	0.0	0.0	25.9	0.0	0.0	-165.9
69	596013.11	4916997.56	308.47	0	E	8000	94.2	0.0	-188.0	0.0	0.0	51.4	12.2	-0.9	0.0	0.0	25.9	0.0	0.0	-182.4

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
72	595968.72	4916998.67	306.09	0	D	32	-63.1	18.2	0.0	0.0	0.0	54.5	0.0	-3.0	0.0	0.0	8.6	0.0	0.0	-104.9
72	595968.72	4916998.67	306.09	0	D	63	61.9	18.2	0.0	0.0	0.0	54.5	0.0	-3.0	0.0	0.0	9.4	0.0	0.0	19.3
72	595968.72	4916998.67	306.09	0	D	125	70.5	18.2	0.0	0.0	0.0	54.5	0.1	-0.6	0.0	0.0	8.1	0.0	0.0	26.7
72	595968.72	4916998.67	306.09	0	D	250	74.2	18.2	0.0	0.0	0.0	54.5	0.2	-1.4	0.0	0.0	10.6	0.0	0.0	28.6
72	595968.72	4916998.67	306.09	0	D	500	75.7	18.2	0.0	0.0	0.0	54.5	0.3	-2.2	0.0	0.0	13.5	0.0	0.0	27.9
72	595968.72	4916998.67	306.09	0	D	1000	76.0	18.2	0.0	0.0	0.0	54.5	0.5	-2.2	0.0	0.0	16.0	0.0	0.0	25.4
72	595968.72	4916998.67	306.09	0	D	2000	75.3	18.2	0.0	0.0	0.0	54.5	1.4	-2.2	0.0	0.0	18.7	0.0	0.0	21.0
72	595968.72	4916998.67	306.09	0	D	4000	73.0	18.2	0.0	0.0	0.0	54.5	4.9	-2.2	0.0	0.0	21.6	0.0	0.0	12.4
72	595968.72	4916998.67	306.09	0	D	8000	67.3	18.2	0.0	0.0	0.0	54.5	17.4	-2.2	0.0	0.0	22.2	0.0	0.0	-6.3
72	595968.72	4916998.67	306.09	0	N	32	-63.1	18.2	0.0	0.0	0.0	54.5	0.0	-3.0	0.0	0.0	8.6	0.0	0.0	-104.9
72	595968.72	4916998.67	306.09	0	N	63	61.9	18.2	0.0	0.0	0.0	54.5	0.0	-3.0	0.0	0.0	9.4	0.0	0.0	19.3
72	595968.72	4916998.67	306.09	0	N	125	70.5	18.2	0.0	0.0	0.0	54.5	0.1	-0.6	0.0	0.0	8.1	0.0	0.0	26.7
72	595968.72	4916998.67	306.09	0	N	250	74.2	18.2	0.0	0.0	0.0	54.5	0.2	-1.4	0.0	0.0	10.6	0.0	0.0	28.6
72	595968.72	4916998.67	306.09	0	N	500	75.7	18.2	0.0	0.0	0.0	54.5	0.3	-2.2	0.0	0.0	13.5	0.0	0.0	27.9
72	595968.72	4916998.67	306.09	0	N	1000	76.0	18.2	0.0	0.0	0.0	54.5	0.5	-2.2	0.0	0.0	16.0	0.0	0.0	25.4
72	595968.72	4916998.67	306.09	0	N	2000	75.3	18.2	0.0	0.0	0.0	54.5	1.4	-2.2	0.0	0.0	18.7	0.0	0.0	21.0
72	595968.72	4916998.67	306.09	0	N	4000	73.0	18.2	0.0	0.0	0.0	54.5	4.9	-2.2	0.0	0.0	21.6	0.0	0.0	12.4
72	595968.72	4916998.67	306.09	0	N	8000	67.3	18.2	0.0	0.0	0.0	54.5	17.4	-2.2	0.0	0.0	22.2	0.0	0.0	-6.3
72	595968.72	4916998.67	306.09	0	E	32	-182.4	18.2	0.0	0.0	0.0	54.5	0.0	-3.0	0.0	0.0	8.6	0.0	0.0	-224.3
72	595968.72	4916998.67	306.09	0	E	63	-57.5	18.2	0.0	0.0	0.0	54.5	0.0	-3.0	0.0	0.0	9.4	0.0	0.0	-100.1
72	595968.72	4916998.67	306.09	0	E	125	-48.8	18.2	0.0	0.0	0.0	54.5	0.1	-0.6	0.0	0.0	8.1	0.0	0.0	-92.6
72	595968.72	4916998.67	306.09	0	E	250	-45.2	18.2	0.0	0.0	0.0	54.5	0.2	-1.4	0.0	0.0	10.6	0.0	0.0	-90.7
72	595968.72	4916998.67	306.09	0	E	500	-43.6	18.2	0.0	0.0	0.0	54.5	0.3	-2.2	0.0	0.0	13.5	0.0	0.0	-91.5

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
72	595968.72	4916998.67	306.09	0	E	1000	-43.3	18.2	0.0	0.0	0.0	54.5	0.5	-2.2	0.0	0.0	16.0	0.0	0.0	-93.9
72	595968.72	4916998.67	306.09	0	E	2000	-44.1	18.2	0.0	0.0	0.0	54.5	1.4	-2.2	0.0	0.0	18.7	0.0	0.0	-98.3
72	595968.72	4916998.67	306.09	0	E	4000	-46.4	18.2	0.0	0.0	0.0	54.5	4.9	-2.2	0.0	0.0	21.6	0.0	0.0	-106.9
72	595968.72	4916998.67	306.09	0	E	8000	-52.1	18.2	0.0	0.0	0.0	54.5	17.4	-2.2	0.0	0.0	22.2	0.0	0.0	-125.7
75	595897.49	4917013.32	303.75	0	D	32	-63.1	19.0	0.0	0.0	0.0	57.8	0.0	-3.2	0.0	0.0	8.5	0.0	0.0	-107.3
75	595897.49	4917013.32	303.75	0	D	63	61.9	19.0	0.0	0.0	0.0	57.8	0.0	-3.2	0.0	0.0	9.0	0.0	0.0	17.2
75	595897.49	4917013.32	303.75	0	D	125	70.5	19.0	0.0	0.0	0.0	57.8	0.1	-0.5	0.0	0.0	7.2	0.0	0.0	24.9
75	595897.49	4917013.32	303.75	0	D	250	74.2	19.0	0.0	0.0	0.0	57.8	0.2	-1.5	0.0	0.0	9.5	0.0	0.0	27.1
75	595897.49	4917013.32	303.75	0	D	500	75.7	19.0	0.0	0.0	0.0	57.8	0.4	-2.3	0.0	0.0	12.1	0.0	0.0	26.6
75	595897.49	4917013.32	303.75	0	D	1000	76.0	19.0	0.0	0.0	0.0	57.8	0.8	-2.3	0.0	0.0	14.4	0.0	0.0	24.3
75	595897.49	4917013.32	303.75	0	D	2000	75.3	19.0	0.0	0.0	0.0	57.8	2.1	-2.3	0.0	0.0	17.0	0.0	0.0	19.6
75	595897.49	4917013.32	303.75	0	D	4000	73.0	19.0	0.0	0.0	0.0	57.8	7.2	-2.3	0.0	0.0	19.7	0.0	0.0	9.4
75	595897.49	4917013.32	303.75	0	D	8000	67.3	19.0	0.0	0.0	0.0	57.8	25.7	-2.3	0.0	0.0	22.3	0.0	0.0	-17.3
75	595897.49	4917013.32	303.75	0	N	32	-63.1	19.0	0.0	0.0	0.0	57.8	0.0	-3.2	0.0	0.0	8.5	0.0	0.0	-107.3
75	595897.49	4917013.32	303.75	0	N	63	61.9	19.0	0.0	0.0	0.0	57.8	0.0	-3.2	0.0	0.0	9.0	0.0	0.0	17.2
75	595897.49	4917013.32	303.75	0	N	125	70.5	19.0	0.0	0.0	0.0	57.8	0.1	-0.5	0.0	0.0	7.2	0.0	0.0	24.9
75	595897.49	4917013.32	303.75	0	N	250	74.2	19.0	0.0	0.0	0.0	57.8	0.2	-1.5	0.0	0.0	9.5	0.0	0.0	27.1
75	595897.49	4917013.32	303.75	0	N	500	75.7	19.0	0.0	0.0	0.0	57.8	0.4	-2.3	0.0	0.0	12.1	0.0	0.0	26.6
75	595897.49	4917013.32	303.75	0	N	1000	76.0	19.0	0.0	0.0	0.0	57.8	0.8	-2.3	0.0	0.0	14.4	0.0	0.0	24.3
75	595897.49	4917013.32	303.75	0	N	2000	75.3	19.0	0.0	0.0	0.0	57.8	2.1	-2.3	0.0	0.0	17.0	0.0	0.0	19.6
75	595897.49	4917013.32	303.75	0	N	4000	73.0	19.0	0.0	0.0	0.0	57.8	7.2	-2.3	0.0	0.0	19.7	0.0	0.0	9.4
75	595897.49	4917013.32	303.75	0	N	8000	67.3	19.0	0.0	0.0	0.0	57.8	25.7	-2.3	0.0	0.0	22.3	0.0	0.0	-17.3
75	595897.49	4917013.32	303.75	0	E	32	-182.4	19.0	0.0	0.0	0.0	57.8	0.0	-3.2	0.0	0.0	8.5	0.0	0.0	-226.6
75	595897.49	4917013.32	303.75	0	E	63	-57.5	19.0	0.0	0.0	0.0	57.8	0.0	-3.2	0.0	0.0	9.0	0.0	0.0	-102.2
75	595897.49	4917013.32	303.75	0	E	125	-48.8	19.0	0.0	0.0	0.0	57.8	0.1	-0.5	0.0	0.0	7.2	0.0	0.0	-94.4
75	595897.49	4917013.32	303.75	0	E	250	-45.2	19.0	0.0	0.0	0.0	57.8	0.2	-1.5	0.0	0.0	9.5	0.0	0.0	-92.2
75	595897.49	4917013.32	303.75	0	E	500	-43.6	19.0	0.0	0.0	0.0	57.8	0.4	-2.3	0.0	0.0	12.1	0.0	0.0	-92.7
75	595897.49	4917013.32	303.75	0	E	1000	-43.3	19.0	0.0	0.0	0.0	57.8	0.8	-2.3	0.0	0.0	14.4	0.0	0.0	-95.1
75	595897.49	4917013.32	303.75	0	E	2000	-44.1	19.0	0.0	0.0	0.0	57.8	2.1	-2.3	0.0	0.0	17.0	0.0	0.0	-99.7
75	595897.49	4917013.32	303.75	0	E	4000	-46.4	19.0	0.0	0.0	0.0	57.8	7.2	-2.3	0.0	0.0	19.7	0.0	0.0	-109.9
75	595897.49	4917013.32	303.75	0	E	8000	-52.1	19.0	0.0	0.0	0.0	57.8	25.7	-2.3	0.0	0.0	22.3	0.0	0.0	-136.6
83	595831.43	4917035.64	296.28	0	D	32	-63.1	17.9	0.0	0.0	0.0	60.2	0.0	-3.8	0.0	0.0	13.0	0.0	0.0	-114.5
83	595831.43	4917035.64	296.28	0	D	63	61.9	17.9	0.0	0.0	0.0	60.2	0.0	-3.8	0.0	0.0	15.3	0.0	0.0	8.1
83	595831.43	4917035.64	296.28	0	D	125	70.5	17.9	0.0	0.0	0.0	60.2	0.1	-1.0	0.0	0.0	15.0	0.0	0.0	14.1
83	595831.43	4917035.64	296.28	0	D	250	74.2	17.9	0.0	0.0	0.0	60.2	0.3	-2.1	0.0	0.0	18.8	0.0	0.0	14.8
83	595831.43	4917035.64	296.28	0	D	500	75.7	17.9	0.0	0.0	0.0	60.2	0.6	-2.9	0.0	0.0	22.6	0.0	0.0	13.2
83	595831.43	4917035.64	296.28	0	D	1000	76.0	17.9	0.0	0.0	0.0	60.2	1.1	-2.9	0.0	0.0	25.5	0.0	0.0	10.1
83	595831.43	4917035.64	296.28	0	D	2000	75.3	17.9	0.0	0.0	0.0	60.2	2.8	-2.9	0.0	0.0	27.9	0.0	0.0	5.2
83	595831.43	4917035.64	296.28	0	D	4000	73.0	17.9	0.0	0.0	0.0	60.2	9.4	-2.9	0.0	0.0	27.9	0.0	0.0	-3.8
83	595831.43	4917035.64	296.28	0	D	8000	67.3	17.9	0.0	0.0	0.0	60.2	33.7	-2.9	0.0	0.0	27.9	0.0	0.0	-33.7
83	595831.43	4917035.64	296.28	0	N	32	-63.1	17.9	0.0	0.0	0.0	60.2	0.0	-3.8	0.0	0.0	13.0	0.0	0.0	-114.5
83	595831.43	4917035.64	296.28	0	N	63	61.9	17.9	0.0	0.0	0.0	60.2	0.0	-3.8	0.0	0.0	15.3	0.0	0.0	8.1
83	595831.43	4917035.64	296.28	0	N	125	70.5	17.9	0.0	0.0	0.0	60.2	0.1	-1.0	0.0	0.0	15.0	0.0	0.0	14.1
83	595831.43	4917035.64	296.28	0	N	250	74.2	17.9	0.0	0.0	0.0	60.2	0.3	-2.1	0.0	0.0	18.8	0.0	0.0	14.8
83	595831.43	4917035.64	296.28	0	N	500	75.7	17.9	0.0	0.0	0.0	60.2	0.6	-2.9	0.0	0.0	22.6	0.0	0.0	13.2
83	595831.43	4917035.64	296.28	0	N	1000	76.0	17.9	0.0	0.0	0.0	60.2	1.1	-2.9	0.0	0.0	25.5	0.0	0.0	10.1
83	595831.43	4917035.64	296.28	0	N	2000	75.3	17.9	0.0	0.0	0.0	60.2	2.8	-2.9	0.0	0.0	27.9	0.0	0.0	5.2
83	595831.43	4917035.64	296.28	0	N	4000	73.0	17.9	0.0	0.0	0.0	60.2	9.4	-2.9	0.0	0.0	27.9	0.0	0.0	-3.8
83	595831.43	4917035.64	296.28	0	N	8000	67.3	17.9	0.0	0.0	0.0	60.2	33.7	-2.9	0.0	0.0	27.9	0.0	0.0	-33.7
83	595831.43	4917035.64	296.28	0	E	32	-182.4	17.9	0.0	0.0	0.0	60.2	0.0	-3.8	0.0	0.0	13.0	0.0	0.0	-233.9
83	595831.43	4917035.64	296.28	0	E	63	-57.5	17.9	0.0	0.0	0.0	60.2	0.0	-3.8	0.0	0.0	15.3	0.0	0.0	-111.3
83	595831.43	4917035.64	296.28	0	E	125	-48.8	17.9	0.0	0.0	0.0	60.2	0.1	-1.0	0.0	0.0	15.0	0.0	0.0	-105.3
83	595831.43	4917035.64	296.28	0	E	250	-45.2	17.9	0.0	0.0	0.0	60.2	0.3	-2.1	0.0	0.0	18.8	0.0	0.0	-104.6
83	595831.43	4917035.64	296.28	0	E	500	-43.6	17.9	0.0	0.0	0.0	60.2	0.6	-2.9	0.0	0.0	22.6	0.0	0.0	-106.2
83	595831.43	4917035.64	296.28	0	E	1000	-43.3	17.9	0.0	0.0	0.0	60.2	1.1	-2.9	0.0	0.0	25.5	0.0	0.0	-109.3
83	595831.43	4917035.64	296.28	0	E	2000	-44.1	17.9	0.0	0.0	0.0	60.2	2.8	-2.9	0.0	0.0	27.9	0.0	0.0	-114.2
83	595831.43	4917035.64	296.28	0	E	4000	-46.4	17.9	0.0	0.0	0.0	60.2	9.4	-2.9	0.0	0.0	27.9	0.0	0.0	-123.1
83	595831.43	4917035.64	296.28	0	E	8000	-52.1	17.9	0.0	0.0	0.0	60.2	33.7	-2.9	0.0	0.0	27.9	0.0	0.0	-153.0
86	595737.80	4917055.27	282.40	0	D	32	-63.1	19.4	0.0	0.0	0.0	62.7	0.0	-4.4	0.0	0.0	11.7	0.0	0.0	-113.7
86	595737.80	4917055.27	282.40	0	D	63	61.9	19.4	0.0	0.0	0.0	62.7	0.0	-4.4	0.0	0.0	13.5	0.0	0.0	9.5
86	595737.80	4917055.27	282.40	0	D	125	70.5	19.4	0.0	0.0	0.0	62.7	0.2	1.9	0.0	0.0	9.3	0.0	0.0	15.9
86	595737.80	4917055.27	282.40	0	D	250	74.2	19.4	0.0	0.0	0.0	62.7	0.4	3.0	0.0	0.0	10.7	0.0	0.0	16.8
86	595737.80	4917055.27	282.40	0	D	500	75.7	19.4	0.0	0.0	0.0	62.7	0.7	-1.3	0.0	0.0	17.8	0.0	0.0	15.2

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
86	595737.80	4917055.27	282.40	0	D	1000	76.0	19.4	0.0	0.0	0.0	62.7	1.4	-2.1	0.0	0.0	21.5	0.0	0.0	12.0
86	595737.80	4917055.27	282.40	0	D	2000	75.3	19.4	0.0	0.0	0.0	62.7	3.7	-2.2	0.0	0.0	24.4	0.0	0.0	6.0
86	595737.80	4917055.27	282.40	0	D	4000	73.0	19.4	0.0	0.0	0.0	62.7	12.6	-2.2	0.0	0.0	27.2	0.0	0.0	-7.9
86	595737.80	4917055.27	282.40	0	D	8000	67.3	19.4	0.0	0.0	0.0	62.7	44.9	-2.2	0.0	0.0	27.2	0.0	0.0	-45.9
86	595737.80	4917055.27	282.40	0	N	32	-63.1	19.4	0.0	0.0	0.0	62.7	0.0	-4.4	0.0	0.0	11.7	0.0	0.0	-113.7
86	595737.80	4917055.27	282.40	0	N	63	61.9	19.4	0.0	0.0	0.0	62.7	0.0	-4.4	0.0	0.0	13.5	0.0	0.0	9.5
86	595737.80	4917055.27	282.40	0	N	125	70.5	19.4	0.0	0.0	0.0	62.7	0.2	1.9	0.0	0.0	9.3	0.0	0.0	15.9
86	595737.80	4917055.27	282.40	0	N	250	74.2	19.4	0.0	0.0	0.0	62.7	0.4	3.0	0.0	0.0	10.7	0.0	0.0	16.8
86	595737.80	4917055.27	282.40	0	N	500	75.7	19.4	0.0	0.0	0.0	62.7	0.7	-1.3	0.0	0.0	17.8	0.0	0.0	15.2
86	595737.80	4917055.27	282.40	0	N	1000	76.0	19.4	0.0	0.0	0.0	62.7	1.4	-2.1	0.0	0.0	21.5	0.0	0.0	12.0
86	595737.80	4917055.27	282.40	0	N	2000	75.3	19.4	0.0	0.0	0.0	62.7	3.7	-2.2	0.0	0.0	24.4	0.0	0.0	6.0
86	595737.80	4917055.27	282.40	0	N	4000	73.0	19.4	0.0	0.0	0.0	62.7	12.6	-2.2	0.0	0.0	27.2	0.0	0.0	-7.9
86	595737.80	4917055.27	282.40	0	N	8000	67.3	19.4	0.0	0.0	0.0	62.7	44.9	-2.2	0.0	0.0	27.2	0.0	0.0	-45.9
86	595737.80	4917055.27	282.40	0	E	32	-182.4	19.4	0.0	0.0	0.0	62.7	0.0	-4.4	0.0	0.0	11.7	0.0	0.0	-233.1
86	595737.80	4917055.27	282.40	0	E	63	-57.5	19.4	0.0	0.0	0.0	62.7	0.0	-4.4	0.0	0.0	13.5	0.0	0.0	-109.9
86	595737.80	4917055.27	282.40	0	E	125	-48.8	19.4	0.0	0.0	0.0	62.7	0.2	1.9	0.0	0.0	9.3	0.0	0.0	-103.5
86	595737.80	4917055.27	282.40	0	E	250	-45.2	19.4	0.0	0.0	0.0	62.7	0.4	3.0	0.0	0.0	10.7	0.0	0.0	-102.6
86	595737.80	4917055.27	282.40	0	E	500	-43.6	19.4	0.0	0.0	0.0	62.7	0.7	-1.3	0.0	0.0	17.8	0.0	0.0	-104.1
86	595737.80	4917055.27	282.40	0	E	1000	-43.3	19.4	0.0	0.0	0.0	62.7	1.4	-2.1	0.0	0.0	21.5	0.0	0.0	-107.3
86	595737.80	4917055.27	282.40	0	E	2000	-44.1	19.4	0.0	0.0	0.0	62.7	3.7	-2.2	0.0	0.0	24.4	0.0	0.0	-113.3
86	595737.80	4917055.27	282.40	0	E	4000	-46.4	19.4	0.0	0.0	0.0	62.7	12.6	-2.2	0.0	0.0	27.2	0.0	0.0	-127.3
86	595737.80	4917055.27	282.40	0	E	8000	-52.1	19.4	0.0	0.0	0.0	62.7	44.9	-2.2	0.0	0.0	27.2	0.0	0.0	-165.2
88	595647.27	4917067.97	274.84	0	D	32	-63.1	19.9	0.0	0.0	0.0	64.5	0.0	-4.7	0.0	0.0	11.1	0.0	0.0	-114.2
88	595647.27	4917067.97	274.84	0	D	63	61.9	19.9	0.0	0.0	0.0	64.5	0.1	-4.7	0.0	0.0	12.4	0.0	0.0	9.4
88	595647.27	4917067.97	274.84	0	D	125	70.5	19.9	0.0	0.0	0.0	64.5	0.2	3.3	0.0	0.0	6.2	0.0	0.0	16.2
88	595647.27	4917067.97	274.84	0	D	250	74.2	19.9	0.0	0.0	0.0	64.5	0.5	4.3	0.0	0.0	7.4	0.0	0.0	17.3
88	595647.27	4917067.97	274.84	0	D	500	75.7	19.9	0.0	0.0	0.0	64.5	0.9	-0.7	0.0	0.0	14.9	0.0	0.0	15.9
88	595647.27	4917067.97	274.84	0	D	1000	76.0	19.9	0.0	0.0	0.0	64.5	1.7	-1.7	0.0	0.0	18.7	0.0	0.0	12.6
88	595647.27	4917067.97	274.84	0	D	2000	75.3	19.9	0.0	0.0	0.0	64.5	4.6	-1.7	0.0	0.0	21.6	0.0	0.0	6.1
88	595647.27	4917067.97	274.84	0	D	4000	73.0	19.9	0.0	0.0	0.0	64.5	15.6	-1.7	0.0	0.0	24.5	0.0	0.0	-10.1
88	595647.27	4917067.97	274.84	0	D	8000	67.3	19.9	0.0	0.0	0.0	64.5	55.6	-1.7	0.0	0.0	26.7	0.0	0.0	-58.0
88	595647.27	4917067.97	274.84	0	N	32	-63.1	19.9	0.0	0.0	0.0	64.5	0.0	-4.7	0.0	0.0	11.1	0.0	0.0	-114.2
88	595647.27	4917067.97	274.84	0	N	63	61.9	19.9	0.0	0.0	0.0	64.5	0.1	-4.7	0.0	0.0	12.4	0.0	0.0	9.4
88	595647.27	4917067.97	274.84	0	N	125	70.5	19.9	0.0	0.0	0.0	64.5	0.2	3.3	0.0	0.0	6.2	0.0	0.0	16.2
88	595647.27	4917067.97	274.84	0	N	250	74.2	19.9	0.0	0.0	0.0	64.5	0.5	4.3	0.0	0.0	7.4	0.0	0.0	17.3
88	595647.27	4917067.97	274.84	0	N	500	75.7	19.9	0.0	0.0	0.0	64.5	0.9	-0.7	0.0	0.0	14.9	0.0	0.0	15.9
88	595647.27	4917067.97	274.84	0	N	1000	76.0	19.9	0.0	0.0	0.0	64.5	1.7	-1.7	0.0	0.0	18.7	0.0	0.0	12.6
88	595647.27	4917067.97	274.84	0	N	2000	75.3	19.9	0.0	0.0	0.0	64.5	4.6	-1.7	0.0	0.0	21.6	0.0	0.0	6.1
88	595647.27	4917067.97	274.84	0	N	4000	73.0	19.9	0.0	0.0	0.0	64.5	15.6	-1.7	0.0	0.0	24.5	0.0	0.0	-10.1
88	595647.27	4917067.97	274.84	0	N	8000	67.3	19.9	0.0	0.0	0.0	64.5	55.6	-1.7	0.0	0.0	26.7	0.0	0.0	-58.0
88	595647.27	4917067.97	274.84	0	E	32	-182.4	19.9	0.0	0.0	0.0	64.5	0.0	-4.7	0.0	0.0	11.1	0.0	0.0	-233.5
88	595647.27	4917067.97	274.84	0	E	63	-57.5	19.9	0.0	0.0	0.0	64.5	0.1	-4.7	0.0	0.0	12.4	0.0	0.0	-109.9
88	595647.27	4917067.97	274.84	0	E	125	-48.8	19.9	0.0	0.0	0.0	64.5	0.2	3.3	0.0	0.0	6.2	0.0	0.0	-103.2
88	595647.27	4917067.97	274.84	0	E	250	-45.2	19.9	0.0	0.0	0.0	64.5	0.5	4.3	0.0	0.0	7.4	0.0	0.0	-102.0
88	595647.27	4917067.97	274.84	0	E	500	-43.6	19.9	0.0	0.0	0.0	64.5	0.9	-0.7	0.0	0.0	14.9	0.0	0.0	-103.5
88	595647.27	4917067.97	274.84	0	E	1000	-43.3	19.9	0.0	0.0	0.0	64.5	1.7	-1.7	0.0	0.0	18.7	0.0	0.0	-106.7
88	595647.27	4917067.97	274.84	0	E	2000	-44.1	19.9	0.0	0.0	0.0	64.5	4.6	-1.7	0.0	0.0	21.6	0.0	0.0	-113.2
88	595647.27	4917067.97	274.84	0	E	4000	-46.4	19.9	0.0	0.0	0.0	64.5	15.6	-1.7	0.0	0.0	24.5	0.0	0.0	-129.5
88	595647.27	4917067.97	274.84	0	E	8000	-52.1	19.9	0.0	0.0	0.0	64.5	55.6	-1.7	0.0	0.0	26.7	0.0	0.0	-177.4
90	595548.21	4917080.12	272.84	0	D	32	-63.1	20.1	0.0	0.0	0.0	66.2	0.0	-4.9	0.0	0.0	9.9	0.0	0.0	-114.2
90	595548.21	4917080.12	272.84	0	D	63	61.9	20.1	0.0	0.0	0.0	66.2	0.1	-4.9	0.0	0.0	10.1	0.0	0.0	10.5
90	595548.21	4917080.12	272.84	0	D	125	70.5	20.1	0.0	0.0	0.0	66.2	0.2	4.0	0.0	0.0	1.6	0.0	0.0	18.6
90	595548.21	4917080.12	272.84	0	D	250	74.2	20.1	0.0	0.0	0.0	66.2	0.6	4.5	0.0	0.0	1.9	0.0	0.0	21.2
90	595548.21	4917080.12	272.84	0	D	500	75.7	20.1	0.0	0.0	0.0	66.2	1.1	-0.5	0.0	0.0	8.0	0.0	0.0	21.0
90	595548.21	4917080.12	272.84	0	D	1000	76.0	20.1	0.0	0.0	0.0	66.2	2.1	-1.5	0.0	0.0	10.7	0.0	0.0	18.7
90	595548.21	4917080.12	272.84	0	D	2000	75.3	20.1	0.0	0.0	0.0	66.2	5.6	-1.5	0.0	0.0	12.8	0.0	0.0	12.3
90	595548.21	4917080.12	272.84	0	D	4000	73.0	20.1	0.0	0.0	0.0	66.2	18.9	-1.5	0.0	0.0	15.3	0.0	0.0	-5.8
90	595548.21	4917080.12	272.84	0	D	8000	67.3	20.1	0.0	0.0	0.0	66.2	67.2	-1.5	0.0	0.0	18.1	0.0	0.0	-62.6
90	595548.21	4917080.12	272.84	0	N	32	-63.1	20.1	0.0	0.0	0.0	66.2	0.0	-4.9	0.0	0.0	9.9	0.0	0.0	-114.2
90	595548.21	4917080.12	272.84	0	N	63	61.9	20.1	0.0	0.0	0.0	66.2	0.1	-4.9	0.0	0.0	10.1	0.0	0.0	10.5
90	595548.21	4917080.12	272.84	0	N	125	70.5	20.1	0.0	0.0	0.0	66.2	0.2	4.0	0.0	0.0	1.6	0.0	0.0	18.6
90	595548.21	4917080.12	272.84	0	N	250	74.2	20.1	0.0	0.0	0.0	66.2	0.6	4.5	0.0	0.0	1.9	0.0	0.0	21.2
90	595548.21	4917080.12	272.84	0	N	500	75.7	20.1	0.0	0.0	0.0	66.2	1.1	-0.5	0.0	0.0	8.0	0.0	0.0	21.0

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
90	595548.21	4917080.12	272.84	0	N	1000	76.0	20.1	0.0	0.0	0.0	66.2	2.1	-1.5	0.0	0.0	10.7	0.0	0.0	18.7
90	595548.21	4917080.12	272.84	0	N	2000	75.3	20.1	0.0	0.0	0.0	66.2	5.6	-1.5	0.0	0.0	12.8	0.0	0.0	12.3
90	595548.21	4917080.12	272.84	0	N	4000	73.0	20.1	0.0	0.0	0.0	66.2	18.9	-1.5	0.0	0.0	15.3	0.0	0.0	-5.8
90	595548.21	4917080.12	272.84	0	N	8000	67.3	20.1	0.0	0.0	0.0	66.2	67.2	-1.5	0.0	0.0	18.1	0.0	0.0	-62.6
90	595548.21	4917080.12	272.84	0	E	32	-182.4	20.1	0.0	0.0	0.0	66.2	0.0	-4.9	0.0	0.0	9.9	0.0	0.0	-233.5
90	595548.21	4917080.12	272.84	0	E	63	-57.5	20.1	0.0	0.0	0.0	66.2	0.1	-4.9	0.0	0.0	10.1	0.0	0.0	-108.8
90	595548.21	4917080.12	272.84	0	E	125	-48.8	20.1	0.0	0.0	0.0	66.2	0.2	4.0	0.0	0.0	1.6	0.0	0.0	-100.7
90	595548.21	4917080.12	272.84	0	E	250	-45.2	20.1	0.0	0.0	0.0	66.2	0.6	4.5	0.0	0.0	1.9	0.0	0.0	-98.2
90	595548.21	4917080.12	272.84	0	E	500	-43.6	20.1	0.0	0.0	0.0	66.2	1.1	-0.5	0.0	0.0	8.0	0.0	0.0	-98.3
90	595548.21	4917080.12	272.84	0	E	1000	-43.3	20.1	0.0	0.0	0.0	66.2	2.1	-1.5	0.0	0.0	10.7	0.0	0.0	-100.7
90	595548.21	4917080.12	272.84	0	E	2000	-44.1	20.1	0.0	0.0	0.0	66.2	5.6	-1.5	0.0	0.0	12.8	0.0	0.0	-107.0
90	595548.21	4917080.12	272.84	0	E	4000	-46.4	20.1	0.0	0.0	0.0	66.2	18.9	-1.5	0.0	0.0	15.3	0.0	0.0	-125.1
90	595548.21	4917080.12	272.84	0	E	8000	-52.1	20.1	0.0	0.0	0.0	66.2	67.2	-1.5	0.0	0.0	18.1	0.0	0.0	-181.9
92	595443.38	4917082.40	272.95	0	D	32	-63.1	20.3	0.0	0.0	0.0	67.6	0.0	-5.1	0.0	0.0	10.0	0.0	0.0	-115.3
92	595443.38	4917082.40	272.95	0	D	63	61.9	20.3	0.0	0.0	0.0	67.6	0.1	-5.1	0.0	0.0	10.1	0.0	0.0	9.5
92	595443.38	4917082.40	272.95	0	D	125	70.5	20.3	0.0	0.0	0.0	67.6	0.3	4.6	0.0	0.0	0.7	0.0	0.0	17.6
92	595443.38	4917082.40	272.95	0	D	250	74.2	20.3	0.0	0.0	0.0	67.6	0.7	4.6	0.0	0.0	1.2	0.0	0.0	20.4
92	595443.38	4917082.40	272.95	0	D	500	75.7	20.3	0.0	0.0	0.0	67.6	1.3	-0.4	0.0	0.0	7.0	0.0	0.0	20.5
92	595443.38	4917082.40	272.95	0	D	1000	76.0	20.3	0.0	0.0	0.0	67.6	2.5	-1.4	0.0	0.0	9.2	0.0	0.0	18.4
92	595443.38	4917082.40	272.95	0	D	2000	75.3	20.3	0.0	0.0	0.0	67.6	6.6	-1.4	0.0	0.0	11.0	0.0	0.0	11.8
92	595443.38	4917082.40	272.95	0	D	4000	73.0	20.3	0.0	0.0	0.0	67.6	22.3	-1.4	0.0	0.0	13.2	0.0	0.0	-8.4
92	595443.38	4917082.40	272.95	0	D	8000	67.3	20.3	0.0	0.0	0.0	67.6	79.4	-1.4	0.0	0.0	15.7	0.0	0.0	-73.7
92	595443.38	4917082.40	272.95	0	N	32	-63.1	20.3	0.0	0.0	0.0	67.6	0.0	-5.1	0.0	0.0	10.0	0.0	0.0	-115.3
92	595443.38	4917082.40	272.95	0	N	63	61.9	20.3	0.0	0.0	0.0	67.6	0.1	-5.1	0.0	0.0	10.1	0.0	0.0	9.5
92	595443.38	4917082.40	272.95	0	N	125	70.5	20.3	0.0	0.0	0.0	67.6	0.3	4.6	0.0	0.0	0.7	0.0	0.0	17.6
92	595443.38	4917082.40	272.95	0	N	250	74.2	20.3	0.0	0.0	0.0	67.6	0.7	4.6	0.0	0.0	1.2	0.0	0.0	20.4
92	595443.38	4917082.40	272.95	0	N	500	75.7	20.3	0.0	0.0	0.0	67.6	1.3	-0.4	0.0	0.0	7.0	0.0	0.0	20.5
92	595443.38	4917082.40	272.95	0	N	1000	76.0	20.3	0.0	0.0	0.0	67.6	2.5	-1.4	0.0	0.0	9.2	0.0	0.0	18.4
92	595443.38	4917082.40	272.95	0	N	2000	75.3	20.3	0.0	0.0	0.0	67.6	6.6	-1.4	0.0	0.0	11.0	0.0	0.0	11.8
92	595443.38	4917082.40	272.95	0	N	4000	73.0	20.3	0.0	0.0	0.0	67.6	22.3	-1.4	0.0	0.0	13.2	0.0	0.0	-8.4
92	595443.38	4917082.40	272.95	0	N	8000	67.3	20.3	0.0	0.0	0.0	67.6	79.4	-1.4	0.0	0.0	15.7	0.0	0.0	-73.7
92	595443.38	4917082.40	272.95	0	E	32	-182.4	20.3	0.0	0.0	0.0	67.6	0.0	-5.1	0.0	0.0	10.0	0.0	0.0	-234.7
92	595443.38	4917082.40	272.95	0	E	63	-57.5	20.3	0.0	0.0	0.0	67.6	0.1	-5.1	0.0	0.0	10.1	0.0	0.0	-109.9
92	595443.38	4917082.40	272.95	0	E	125	-48.8	20.3	0.0	0.0	0.0	67.6	0.3	4.6	0.0	0.0	0.7	0.0	0.0	-101.7
92	595443.38	4917082.40	272.95	0	E	250	-45.2	20.3	0.0	0.0	0.0	67.6	0.7	4.6	0.0	0.0	1.2	0.0	0.0	-98.9
92	595443.38	4917082.40	272.95	0	E	500	-43.6	20.3	0.0	0.0	0.0	67.6	1.3	-0.4	0.0	0.0	7.0	0.0	0.0	-98.8
92	595443.38	4917082.40	272.95	0	E	1000	-43.3	20.3	0.0	0.0	0.0	67.6	2.5	-1.4	0.0	0.0	9.2	0.0	0.0	-100.9
92	595443.38	4917082.40	272.95	0	E	2000	-44.1	20.3	0.0	0.0	0.0	67.6	6.6	-1.4	0.0	0.0	11.0	0.0	0.0	-107.5
92	595443.38	4917082.40	272.95	0	E	4000	-46.4	20.3	0.0	0.0	0.0	67.6	22.3	-1.4	0.0	0.0	13.2	0.0	0.0	-127.7
92	595443.38	4917082.40	272.95	0	E	8000	-52.1	20.3	0.0	0.0	0.0	67.6	79.4	-1.4	0.0	0.0	15.7	0.0	0.0	-193.1
94	595373.50	4917077.64	273.67	0	D	32	-63.1	15.1	0.0	0.0	0.0	68.5	0.0	-5.2	0.0	0.0	10.0	0.0	0.0	-121.3
94	595373.50	4917077.64	273.67	0	D	63	61.9	15.1	0.0	0.0	0.0	68.5	0.1	-5.2	0.0	0.0	10.1	0.0	0.0	3.5
94	595373.50	4917077.64	273.67	0	D	125	70.5	15.1	0.0	0.0	0.0	68.5	0.3	4.9	0.0	0.0	0.3	0.0	0.0	11.7
94	595373.50	4917077.64	273.67	0	D	250	74.2	15.1	0.0	0.0	0.0	68.5	0.8	4.6	0.0	0.0	0.9	0.0	0.0	14.6
94	595373.50	4917077.64	273.67	0	D	500	75.7	15.1	0.0	0.0	0.0	68.5	1.4	-0.4	0.0	0.0	6.4	0.0	0.0	14.8
94	595373.50	4917077.64	273.67	0	D	1000	76.0	15.1	0.0	0.0	0.0	68.5	2.7	-1.4	0.0	0.0	8.4	0.0	0.0	12.9
94	595373.50	4917077.64	273.67	0	D	2000	75.3	15.1	0.0	0.0	0.0	68.5	7.2	-1.4	0.0	0.0	9.9	0.0	0.0	6.1
94	595373.50	4917077.64	273.67	0	D	4000	73.0	15.1	0.0	0.0	0.0	68.5	24.5	-1.4	0.0	0.0	11.9	0.0	0.0	-15.4
94	595373.50	4917077.64	273.67	0	D	8000	67.3	15.1	0.0	0.0	0.0	68.5	87.5	-1.4	0.0	0.0	14.3	0.0	0.0	-86.4
94	595373.50	4917077.64	273.67	0	N	32	-63.1	15.1	0.0	0.0	0.0	68.5	0.0	-5.2	0.0	0.0	10.0	0.0	0.0	-121.3
94	595373.50	4917077.64	273.67	0	N	63	61.9	15.1	0.0	0.0	0.0	68.5	0.1	-5.2	0.0	0.0	10.1	0.0	0.0	3.5
94	595373.50	4917077.64	273.67	0	N	125	70.5	15.1	0.0	0.0	0.0	68.5	0.3	4.9	0.0	0.0	0.3	0.0	0.0	11.7
94	595373.50	4917077.64	273.67	0	N	250	74.2	15.1	0.0	0.0	0.0	68.5	0.8	4.6	0.0	0.0	0.9	0.0	0.0	14.6
94	595373.50	4917077.64	273.67	0	N	500	75.7	15.1	0.0	0.0	0.0	68.5	1.4	-0.4	0.0	0.0	6.4	0.0	0.0	14.8
94	595373.50	4917077.64	273.67	0	N	1000	76.0	15.1	0.0	0.0	0.0	68.5	2.7	-1.4	0.0	0.0	8.4	0.0	0.0	12.9
94	595373.50	4917077.64	273.67	0	N	2000	75.3	15.1	0.0	0.0	0.0	68.5	7.2	-1.4	0.0	0.0	9.9	0.0	0.0	6.1
94	595373.50	4917077.64	273.67	0	N	4000	73.0	15.1	0.0	0.0	0.0	68.5	24.5	-1.4	0.0	0.0	11.9	0.0	0.0	-15.4
94	595373.50	4917077.64	273.67	0	N	8000	67.3	15.1	0.0	0.0	0.0	68.5	87.5	-1.4	0.0	0.0	14.3	0.0	0.0	-86.4
94	595373.50	4917077.64	273.67	0	E	32	-182.4	15.1	0.0	0.0	0.0	68.5	0.0	-5.2	0.0	0.0	10.0	0.0	0.0	-240.7
94	595373.50	4917077.64	273.67	0	E	63	-57.5	15.1	0.0	0.0	0.0	68.5	0.1	-5.2	0.0	0.0	10.1	0.0	0.0	-115.9
94	595373.50	4917077.64	273.67	0	E	125	-48.8	15.1	0.0	0.0	0.0	68.5	0.3	4.9	0.0	0.0	0.3	0.0	0.0	-107.6
94	595373.50	4917077.64	273.67	0	E	250	-45.2	15.1	0.0	0.0	0.0	68.5	0.8	4.6	0.0	0.0	0.9	0.0	0.0	-104.8
94	595373.50	4917077.64	273.67	0	E	500	-43.6	15.1	0.0	0.0	0.0	68.5	1.4	-0.4	0.0	0.0	6.4	0.0	0.0	-104.5

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
94	595373.50	4917077.64	273.67	0	E	1000	-43.3	15.1	0.0	0.0	0.0	68.5	2.7	-1.4	0.0	0.0	8.4	0.0	0.0	-106.5
94	595373.50	4917077.64	273.67	0	E	2000	-44.1	15.1	0.0	0.0	0.0	68.5	7.2	-1.4	0.0	0.0	9.9	0.0	0.0	-113.2
94	595373.50	4917077.64	273.67	0	E	4000	-46.4	15.1	0.0	0.0	0.0	68.5	24.5	-1.4	0.0	0.0	11.9	0.0	0.0	-134.8
94	595373.50	4917077.64	273.67	0	E	8000	-52.1	15.1	0.0	0.0	0.0	68.5	87.5	-1.4	0.0	0.0	14.3	0.0	0.0	-205.8
96	595791.95	4917047.79	289.28	0	D	32	-63.1	13.7	0.0	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	16.4	0.0	0.0	-123.1
96	595791.95	4917047.79	289.28	0	D	63	61.9	13.7	0.0	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	19.2	0.0	0.0	-1.0
96	595791.95	4917047.79	289.28	0	D	125	70.5	13.7	0.0	0.0	0.0	61.3	0.1	-0.9	0.0	0.0	18.8	0.0	0.0	4.8
96	595791.95	4917047.79	289.28	0	D	250	74.2	13.7	0.0	0.0	0.0	61.3	0.3	-1.8	0.0	0.0	22.6	0.0	0.0	5.3
96	595791.95	4917047.79	289.28	0	D	500	75.7	13.7	0.0	0.0	0.0	61.3	0.6	-3.0	0.0	0.0	26.8	0.0	0.0	3.6
96	595791.95	4917047.79	289.28	0	D	1000	76.0	13.7	0.0	0.0	0.0	61.3	1.2	-3.0	0.0	0.0	28.0	0.0	0.0	2.1
96	595791.95	4917047.79	289.28	0	D	2000	75.3	13.7	0.0	0.0	0.0	61.3	3.2	-3.0	0.0	0.0	28.0	0.0	0.0	-0.6
96	595791.95	4917047.79	289.28	0	D	4000	73.0	13.7	0.0	0.0	0.0	61.3	10.8	-3.0	0.0	0.0	28.0	0.0	0.0	-10.5
96	595791.95	4917047.79	289.28	0	D	8000	67.3	13.7	0.0	0.0	0.0	61.3	38.5	-3.0	0.0	0.0	28.0	0.0	0.0	-43.8
96	595791.95	4917047.79	289.28	0	N	32	-63.1	13.7	0.0	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	16.4	0.0	0.0	-123.1
96	595791.95	4917047.79	289.28	0	N	63	61.9	13.7	0.0	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	19.2	0.0	0.0	-1.0
96	595791.95	4917047.79	289.28	0	N	125	70.5	13.7	0.0	0.0	0.0	61.3	0.1	-0.9	0.0	0.0	18.8	0.0	0.0	4.8
96	595791.95	4917047.79	289.28	0	N	250	74.2	13.7	0.0	0.0	0.0	61.3	0.3	-1.8	0.0	0.0	22.6	0.0	0.0	5.3
96	595791.95	4917047.79	289.28	0	N	500	75.7	13.7	0.0	0.0	0.0	61.3	0.6	-3.0	0.0	0.0	26.8	0.0	0.0	3.6
96	595791.95	4917047.79	289.28	0	N	1000	76.0	13.7	0.0	0.0	0.0	61.3	1.2	-3.0	0.0	0.0	28.0	0.0	0.0	2.1
96	595791.95	4917047.79	289.28	0	N	2000	75.3	13.7	0.0	0.0	0.0	61.3	3.2	-3.0	0.0	0.0	28.0	0.0	0.0	-0.6
96	595791.95	4917047.79	289.28	0	N	4000	73.0	13.7	0.0	0.0	0.0	61.3	10.8	-3.0	0.0	0.0	28.0	0.0	0.0	-10.5
96	595791.95	4917047.79	289.28	0	N	8000	67.3	13.7	0.0	0.0	0.0	61.3	38.5	-3.0	0.0	0.0	28.0	0.0	0.0	-43.8
96	595791.95	4917047.79	289.28	0	E	32	-182.4	13.7	0.0	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	16.4	0.0	0.0	-242.4
96	595791.95	4917047.79	289.28	0	E	63	-57.5	13.7	0.0	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	19.2	0.0	0.0	-120.3
96	595791.95	4917047.79	289.28	0	E	125	-48.8	13.7	0.0	0.0	0.0	61.3	0.1	-0.9	0.0	0.0	18.8	0.0	0.0	-114.6
96	595791.95	4917047.79	289.28	0	E	250	-45.2	13.7	0.0	0.0	0.0	61.3	0.3	-1.8	0.0	0.0	22.6	0.0	0.0	-114.1
96	595791.95	4917047.79	289.28	0	E	500	-43.6	13.7	0.0	0.0	0.0	61.3	0.6	-3.0	0.0	0.0	26.8	0.0	0.0	-115.8
96	595791.95	4917047.79	289.28	0	E	1000	-43.3	13.7	0.0	0.0	0.0	61.3	1.2	-3.0	0.0	0.0	28.0	0.0	0.0	-117.2
96	595791.95	4917047.79	289.28	0	E	2000	-44.1	13.7	0.0	0.0	0.0	61.3	3.2	-3.0	0.0	0.0	28.0	0.0	0.0	-120.0
96	595791.95	4917047.79	289.28	0	E	4000	-46.4	13.7	0.0	0.0	0.0	61.3	10.8	-3.0	0.0	0.0	28.0	0.0	0.0	-129.9
96	595791.95	4917047.79	289.28	0	E	8000	-52.1	13.7	0.0	0.0	0.0	61.3	38.5	-3.0	0.0	0.0	28.0	0.0	0.0	-163.2
98	595332.41	4917079.18	272.12	0	D	32	-63.1	17.0	0.0	0.0	0.0	68.9	0.0	-5.2	0.0	0.0	10.1	0.0	0.0	-119.9
98	595332.41	4917079.18	272.12	0	D	63	61.9	17.0	0.0	0.0	0.0	68.9	0.1	-5.2	0.0	0.0	10.1	0.0	0.0	4.9
98	595332.41	4917079.18	272.12	0	D	125	70.5	17.0	0.0	0.0	0.0	68.9	0.3	5.0	0.0	0.0	0.0	0.0	0.0	13.2
98	595332.41	4917079.18	272.12	0	D	250	74.2	17.0	0.0	0.0	0.0	68.9	0.8	4.6	0.0	0.0	0.7	0.0	0.0	16.0
98	595332.41	4917079.18	272.12	0	D	500	75.7	17.0	0.0	0.0	0.0	68.9	1.5	-0.4	0.0	0.0	6.3	0.0	0.0	16.3
98	595332.41	4917079.18	272.12	0	D	1000	76.0	17.0	0.0	0.0	0.0	68.9	2.9	-1.3	0.0	0.0	8.1	0.0	0.0	14.4
98	595332.41	4917079.18	272.12	0	D	2000	75.3	17.0	0.0	0.0	0.0	68.9	7.6	-1.3	0.0	0.0	9.5	0.0	0.0	7.5
98	595332.41	4917079.18	272.12	0	D	4000	73.0	17.0	0.0	0.0	0.0	68.9	25.9	-1.3	0.0	0.0	11.4	0.0	0.0	-14.9
98	595332.41	4917079.18	272.12	0	D	8000	67.3	17.0	0.0	0.0	0.0	68.9	92.3	-1.3	0.0	0.0	13.7	0.0	0.0	-89.2
98	595332.41	4917079.18	272.12	0	N	32	-63.1	17.0	0.0	0.0	0.0	68.9	0.0	-5.2	0.0	0.0	10.1	0.0	0.0	-119.9
98	595332.41	4917079.18	272.12	0	N	63	61.9	17.0	0.0	0.0	0.0	68.9	0.1	-5.2	0.0	0.0	10.1	0.0	0.0	4.9
98	595332.41	4917079.18	272.12	0	N	125	70.5	17.0	0.0	0.0	0.0	68.9	0.3	5.0	0.0	0.0	0.0	0.0	0.0	13.2
98	595332.41	4917079.18	272.12	0	N	250	74.2	17.0	0.0	0.0	0.0	68.9	0.8	4.6	0.0	0.0	0.7	0.0	0.0	16.0
98	595332.41	4917079.18	272.12	0	N	500	75.7	17.0	0.0	0.0	0.0	68.9	1.5	-0.4	0.0	0.0	6.3	0.0	0.0	16.3
98	595332.41	4917079.18	272.12	0	N	1000	76.0	17.0	0.0	0.0	0.0	68.9	2.9	-1.3	0.0	0.0	8.1	0.0	0.0	14.4
98	595332.41	4917079.18	272.12	0	N	2000	75.3	17.0	0.0	0.0	0.0	68.9	7.6	-1.3	0.0	0.0	9.5	0.0	0.0	7.5
98	595332.41	4917079.18	272.12	0	N	4000	73.0	17.0	0.0	0.0	0.0	68.9	25.9	-1.3	0.0	0.0	11.4	0.0	0.0	-14.9
98	595332.41	4917079.18	272.12	0	N	8000	67.3	17.0	0.0	0.0	0.0	68.9	92.3	-1.3	0.0	0.0	13.7	0.0	0.0	-89.2
98	595332.41	4917079.18	272.12	0	E	32	-182.4	17.0	0.0	0.0	0.0	68.9	0.0	-5.2	0.0	0.0	10.1	0.0	0.0	-239.2
98	595332.41	4917079.18	272.12	0	E	63	-57.5	17.0	0.0	0.0	0.0	68.9	0.1	-5.2	0.0	0.0	10.1	0.0	0.0	-114.4
98	595332.41	4917079.18	272.12	0	E	125	-48.8	17.0	0.0	0.0	0.0	68.9	0.3	5.0	0.0	0.0	0.0	0.0	0.0	-106.2
98	595332.41	4917079.18	272.12	0	E	250	-45.2	17.0	0.0	0.0	0.0	68.9	0.8	4.6	0.0	0.0	0.7	0.0	0.0	-103.3
98	595332.41	4917079.18	272.12	0	E	500	-43.6	17.0	0.0	0.0	0.0	68.9	1.5	-0.4	0.0	0.0	6.3	0.0	0.0	-103.0
98	595332.41	4917079.18	272.12	0	E	1000	-43.3	17.0	0.0	0.0	0.0	68.9	2.9	-1.3	0.0	0.0	8.1	0.0	0.0	-104.9
98	595332.41	4917079.18	272.12	0	E	2000	-44.1	17.0	0.0	0.0	0.0	68.9	7.6	-1.3	0.0	0.0	9.5	0.0	0.0	-111.8
98	595332.41	4917079.18	272.12	0	E	4000	-46.4	17.0	0.0	0.0	0.0	68.9	25.9	-1.3	0.0	0.0	11.4	0.0	0.0	-134.2
98	595332.41	4917079.18	272.12	0	E	8000	-52.1	17.0	0.0	0.0	0.0	68.9	92.3	-1.3	0.0	0.0	13.7	0.0	0.0	-208.6
100	595303.29	4917080.77	270.39	0	D	32	-63.1	9.4	0.0	0.0	0.0	69.3	0.0	-5.2	0.0	0.0	10.1	0.0	0.0	-127.8
100	595303.29	4917080.77	270.39	0	D	63	61.9	9.4	0.0	0.0	0.0	69.3	0.1	-5.2	0.0	0.0	10.2	0.0	0.0	-3.0
100	595303.29	4917080.77	270.39	0	D	125	70.5	9.4	0.0	0.0	0.0	69.3	0.3	5.1	0.0	0.0	0.0	0.0	0.0	5.2
100	595303.29	4917080.77	270.39	0	D	250	74.2	9.4	0.0	0.0	0.0	69.3	0.9	4.6	0.0	0.0	0.7	0.0	0.0	8.2
100	595303.29	4917080.77	270.39	0	D	500	75.7	9.4	0.0	0.0	0.0	69.3	1.6	-0.3	0.0	0.0	6.1	0.0	0.0	8.5

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
100	595303.29	4917080.77	270.39	0	D	1000	76.0	9.4	0.0	0.0	0.0	69.3	3.0	-1.3	0.0	0.0	7.9	0.0	0.0	6.5
100	595303.29	4917080.77	270.39	0	D	2000	75.3	9.4	0.0	0.0	0.0	69.3	7.9	-1.3	0.0	0.0	9.3	0.0	0.0	-0.5
100	595303.29	4917080.77	270.39	0	D	4000	73.0	9.4	0.0	0.0	0.0	69.3	26.8	-1.3	0.0	0.0	11.1	0.0	0.0	-23.5
100	595303.29	4917080.77	270.39	0	D	8000	67.3	9.4	0.0	0.0	0.0	69.3	95.7	-1.3	0.0	0.0	13.3	0.0	0.0	-100.2
100	595303.29	4917080.77	270.39	0	N	32	-63.1	9.4	0.0	0.0	0.0	69.3	0.0	-5.2	0.0	0.0	10.1	0.0	0.0	-127.8
100	595303.29	4917080.77	270.39	0	N	63	61.9	9.4	0.0	0.0	0.0	69.3	0.1	-5.2	0.0	0.0	10.2	0.0	0.0	-3.0
100	595303.29	4917080.77	270.39	0	N	125	70.5	9.4	0.0	0.0	0.0	69.3	0.3	5.1	0.0	0.0	0.0	0.0	0.0	5.2
100	595303.29	4917080.77	270.39	0	N	250	74.2	9.4	0.0	0.0	0.0	69.3	0.9	4.6	0.0	0.0	0.7	0.0	0.0	8.2
100	595303.29	4917080.77	270.39	0	N	500	75.7	9.4	0.0	0.0	0.0	69.3	1.6	-0.3	0.0	0.0	6.1	0.0	0.0	8.5
100	595303.29	4917080.77	270.39	0	N	1000	76.0	9.4	0.0	0.0	0.0	69.3	3.0	-1.3	0.0	0.0	7.9	0.0	0.0	6.5
100	595303.29	4917080.77	270.39	0	N	2000	75.3	9.4	0.0	0.0	0.0	69.3	7.9	-1.3	0.0	0.0	9.3	0.0	0.0	-0.5
100	595303.29	4917080.77	270.39	0	N	4000	73.0	9.4	0.0	0.0	0.0	69.3	26.8	-1.3	0.0	0.0	11.1	0.0	0.0	-23.5
100	595303.29	4917080.77	270.39	0	N	8000	67.3	9.4	0.0	0.0	0.0	69.3	95.7	-1.3	0.0	0.0	13.3	0.0	0.0	-100.2
100	595303.29	4917080.77	270.39	0	E	32	-182.4	9.4	0.0	0.0	0.0	69.3	0.0	-5.2	0.0	0.0	10.1	0.0	0.0	-247.1
100	595303.29	4917080.77	270.39	0	E	63	-57.5	9.4	0.0	0.0	0.0	69.3	0.1	-5.2	0.0	0.0	10.2	0.0	0.0	-122.3
100	595303.29	4917080.77	270.39	0	E	125	-48.8	9.4	0.0	0.0	0.0	69.3	0.3	5.1	0.0	0.0	0.0	0.0	0.0	-114.1
100	595303.29	4917080.77	270.39	0	E	250	-45.2	9.4	0.0	0.0	0.0	69.3	0.9	4.6	0.0	0.0	0.7	0.0	0.0	-111.2
100	595303.29	4917080.77	270.39	0	E	500	-43.6	9.4	0.0	0.0	0.0	69.3	1.6	-0.3	0.0	0.0	6.1	0.0	0.0	-110.9
100	595303.29	4917080.77	270.39	0	E	1000	-43.3	9.4	0.0	0.0	0.0	69.3	3.0	-1.3	0.0	0.0	7.9	0.0	0.0	-112.8
100	595303.29	4917080.77	270.39	0	E	2000	-44.1	9.4	0.0	0.0	0.0	69.3	7.9	-1.3	0.0	0.0	9.3	0.0	0.0	-119.8
100	595303.29	4917080.77	270.39	0	E	4000	-46.4	9.4	0.0	0.0	0.0	69.3	26.8	-1.3	0.0	0.0	11.1	0.0	0.0	-142.8
100	595303.29	4917080.77	270.39	0	E	8000	-52.1	9.4	0.0	0.0	0.0	69.3	95.7	-1.3	0.0	0.0	13.3	0.0	0.0	-219.6

Receiver
Name: R4
ID: R4
X: 595492.40 m
Y: 4916571.65 m
Z: 294.50 m

Point Source, ISO 9613, Name: "2 Crushers + 2 Screens + 2 Stackers", ID: "CRSH"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5	595604.40	4916745.51	287.50	0	D	32	83.0	0.0	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	20.8
5	595604.40	4916745.51	287.50	0	D	63	95.5	0.0	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	32.5
5	595604.40	4916745.51	287.50	0	D	125	106.5	0.0	0.0	0.0	0.0	57.3	0.1	0.2	0.0	0.0	6.7	0.0	0.0	42.3
5	595604.40	4916745.51	287.50	0	D	250	105.6	0.0	0.0	0.0	0.0	57.3	0.2	-0.9	0.0	0.0	9.3	0.0	0.0	39.7
5	595604.40	4916745.51	287.50	0	D	500	112.7	0.0	0.0	0.0	0.0	57.3	0.4	-1.9	0.0	0.0	12.2	0.0	0.0	44.7
5	595604.40	4916745.51	287.50	0	D	1000	111.6	0.0	0.0	0.0	0.0	57.3	0.8	-1.9	0.0	0.0	14.6	0.0	0.0	40.9
5	595604.40	4916745.51	287.50	0	D	2000	112.6	0.0	0.0	0.0	0.0	57.3	2.0	-1.9	0.0	0.0	17.3	0.0	0.0	38.0
5	595604.40	4916745.51	287.50	0	D	4000	107.6	0.0	0.0	0.0	0.0	57.3	6.8	-1.9	0.0	0.0	20.1	0.0	0.0	25.3
5	595604.40	4916745.51	287.50	0	D	8000	101.7	0.0	0.0	0.0	0.0	57.3	24.2	-1.9	0.0	0.0	21.9	0.0	0.0	0.2
5	595604.40	4916745.51	287.50	0	N	32	83.0	0.0	-188.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-167.2
5	595604.40	4916745.51	287.50	0	N	63	95.5	0.0	-188.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	-155.5
5	595604.40	4916745.51	287.50	0	N	125	106.5	0.0	-188.0	0.0	0.0	57.3	0.1	0.2	0.0	0.0	6.7	0.0	0.0	-145.7
5	595604.40	4916745.51	287.50	0	N	250	105.6	0.0	-188.0	0.0	0.0	57.3	0.2	-0.9	0.0	0.0	9.3	0.0	0.0	-148.3
5	595604.40	4916745.51	287.50	0	N	500	112.7	0.0	-188.0	0.0	0.0	57.3	0.4	-1.9	0.0	0.0	12.2	0.0	0.0	-143.3
5	595604.40	4916745.51	287.50	0	N	1000	111.6	0.0	-188.0	0.0	0.0	57.3	0.8	-1.9	0.0	0.0	14.6	0.0	0.0	-147.1
5	595604.40	4916745.51	287.50	0	N	2000	112.6	0.0	-188.0	0.0	0.0	57.3	2.0	-1.9	0.0	0.0	17.3	0.0	0.0	-150.0
5	595604.40	4916745.51	287.50	0	N	4000	107.6	0.0	-188.0	0.0	0.0	57.3	6.8	-1.9	0.0	0.0	20.1	0.0	0.0	-162.7
5	595604.40	4916745.51	287.50	0	N	8000	101.7	0.0	-188.0	0.0	0.0	57.3	24.2	-1.9	0.0	0.0	21.9	0.0	0.0	-187.8
5	595604.40	4916745.51	287.50	0	E	32	83.0	0.0	-188.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-167.2
5	595604.40	4916745.51	287.50	0	E	63	95.5	0.0	-188.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	-155.5
5	595604.40	4916745.51	287.50	0	E	125	106.5	0.0	-188.0	0.0	0.0	57.3	0.1	0.2	0.0	0.0	6.7	0.0	0.0	-145.7
5	595604.40	4916745.51	287.50	0	E	250	105.6	0.0	-188.0	0.0	0.0	57.3	0.2	-0.9	0.0	0.0	9.3	0.0	0.0	-148.3
5	595604.40	4916745.51	287.50	0	E	500	112.7	0.0	-188.0	0.0	0.0	57.3	0.4	-1.9	0.0	0.0	12.2	0.0	0.0	-143.3
5	595604.40	4916745.51	287.50	0	E	1000	111.6	0.0	-188.0	0.0	0.0	57.3	0.8	-1.9	0.0	0.0	14.6	0.0	0.0	-147.1
5	595604.40	4916745.51	287.50	0	E	2000	112.6	0.0	-188.0	0.0	0.0	57.3	2.0	-1.9	0.0	0.0	17.3	0.0	0.0	-150.0
5	595604.40	4916745.51	287.50	0	E	4000	107.6	0.0	-188.0	0.0	0.0	57.3	6.8	-1.9	0.0	0.0	20.1	0.0	0.0	-162.7
5	595604.40	4916745.51	287.50	0	E	8000	101.7	0.0	-188.0	0.0	0.0	57.3	24.2	-1.9	0.0	0.0	21.9	0.0	0.0	-187.8

Point Source, ISO 9613, Name: "Shipping - 2 loaders", ID: "SHIP"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
10	595598.87	4916753.64	286.32	0	D	32	-36.4	0.0	0.0	0.0	0.0	57.5	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-98.7
10	595598.87	4916753.64	286.32	0	D	63	90.8	0.0	0.0	0.0	0.0	57.5	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	27.6
10	595598.87	4916753.64	286.32	0	D	125	95.9	0.0	0.0	0.0	0.0	57.5	0.1	0.3	0.0	0.0	6.7	0.0	0.0	31.4
10	595598.87	4916753.64	286.32	0	D	250	98.4	0.0	0.0	0.0	0.0	57.5	0.2	-0.9	0.0	0.0	9.4	0.0	0.0	32.2
10	595598.87	4916753.64	286.32	0	D	500	104.8	0.0	0.0	0.0	0.0	57.5	0.4	-1.9	0.0	0.0	12.4	0.0	0.0	36.4
10	595598.87	4916753.64	286.32	0	D	1000	103.0	0.0	0.0	0.0	0.0	57.5	0.8	-1.9	0.0	0.0	14.8	0.0	0.0	31.8
10	595598.87	4916753.64	286.32	0	D	2000	101.2	0.0	0.0	0.0	0.0	57.5	2.0	-1.9	0.0	0.0	17.5	0.0	0.0	26.1
10	595598.87	4916753.64	286.32	0	D	4000	95.0	0.0	0.0	0.0	0.0	57.5	6.9	-1.9	0.0	0.0	20.4	0.0	0.0	12.2
10	595598.87	4916753.64	286.32	0	D	8000	85.9	0.0	0.0	0.0	0.0	57.5	24.7	-1.9	0.0	0.0	21.8	0.0	0.0	-16.2
10	595598.87	4916753.64	286.32	0	N	32	-36.4	0.0	-3.0	0.0	0.0	57.5	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-101.7
10	595598.87	4916753.64	286.32	0	N	63	90.8	0.0	-3.0	0.0	0.0	57.5	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	24.6
10	595598.87	4916753.64	286.32	0	N	125	95.9	0.0	-3.0	0.0	0.0	57.5	0.1	0.3	0.0	0.0	6.7	0.0	0.0	28.3
10	595598.87	4916753.64	286.32	0	N	250	98.4	0.0	-3.0	0.0	0.0	57.5	0.2	-0.9	0.0	0.0	9.4	0.0	0.0	29.2
10	595598.87	4916753.64	286.32	0	N	500	104.8	0.0	-3.0	0.0	0.0	57.5	0.4	-1.9	0.0	0.0	12.4	0.0	0.0	33.4
10	595598.87	4916753.64	286.32	0	N	1000	103.0	0.0	-3.0	0.0	0.0	57.5	0.8	-1.9	0.0	0.0	14.8	0.0	0.0	28.8
10	595598.87	4916753.64	286.32	0	N	2000	101.2	0.0	-3.0	0.0	0.0	57.5	2.0	-1.9	0.0	0.0	17.5	0.0	0.0	23.1
10	595598.87	4916753.64	286.32	0	N	4000	95.0	0.0	-3.0	0.0	0.0	57.5	6.9	-1.9	0.0	0.0	20.4	0.0	0.0	9.2
10	595598.87	4916753.64	286.32	0	N	8000	85.9	0.0	-3.0	0.0	0.0	57.5	24.7	-1.9	0.0	0.0	21.8	0.0	0.0	-19.2
10	595598.87	4916753.64	286.32	0	E	32	-36.4	0.0	-188.0	0.0	0.0	57.5	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-286.7
10	595598.87	4916753.64	286.32	0	E	63	90.8	0.0	-188.0	0.0	0.0	57.5	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	-160.4
10	595598.87	4916753.64	286.32	0	E	125	95.9	0.0	-188.0	0.0	0.0	57.5	0.1	0.3	0.0	0.0	6.7	0.0	0.0	-156.6
10	595598.87	4916753.64	286.32	0	E	250	98.4	0.0	-188.0	0.0	0.0	57.5	0.2	-0.9	0.0	0.0	9.4	0.0	0.0	-155.8

Point Source, ISO 9613, Name: "Shipping - 2 loaders", ID: "SHIP"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
10	595598.87	4916753.64	286.32	0	E	500	104.8	0.0	-188.0	0.0	0.0	57.5	0.4	-1.9	0.0	0.0	12.4	0.0	0.0	-151.6
10	595598.87	4916753.64	286.32	0	E	1000	103.0	0.0	-188.0	0.0	0.0	57.5	0.8	-1.9	0.0	0.0	14.8	0.0	0.0	-156.2
10	595598.87	4916753.64	286.32	0	E	2000	101.2	0.0	-188.0	0.0	0.0	57.5	2.0	-1.9	0.0	0.0	17.5	0.0	0.0	-161.9
10	595598.87	4916753.64	286.32	0	E	4000	95.0	0.0	-188.0	0.0	0.0	57.5	6.9	-1.9	0.0	0.0	20.4	0.0	0.0	-175.8
10	595598.87	4916753.64	286.32	0	E	8000	85.9	0.0	-188.0	0.0	0.0	57.5	24.7	-1.9	0.0	0.0	21.8	0.0	0.0	-204.2

Point Source, ISO 9613, Name: "Screen + Loader", ID: "SCR"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
15	595594.06	4916746.91	286.81	0	D	32	61.3	0.0	0.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-0.7
15	595594.06	4916746.91	286.81	0	D	63	88.3	0.0	0.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	25.4
15	595594.06	4916746.91	286.81	0	D	125	97.3	0.0	0.0	0.0	0.0	57.1	0.1	0.3	0.0	0.0	6.7	0.0	0.0	33.0
15	595594.06	4916746.91	286.81	0	D	250	99.4	0.0	0.0	0.0	0.0	57.1	0.2	-0.8	0.0	0.0	9.4	0.0	0.0	33.4
15	595594.06	4916746.91	286.81	0	D	500	105.5	0.0	0.0	0.0	0.0	57.1	0.4	-1.9	0.0	0.0	12.5	0.0	0.0	37.3
15	595594.06	4916746.91	286.81	0	D	1000	108.8	0.0	0.0	0.0	0.0	57.1	0.7	-1.9	0.0	0.0	15.0	0.0	0.0	37.9
15	595594.06	4916746.91	286.81	0	D	2000	107.4	0.0	0.0	0.0	0.0	57.1	2.0	-1.9	0.0	0.0	17.7	0.0	0.0	32.6
15	595594.06	4916746.91	286.81	0	D	4000	102.0	0.0	0.0	0.0	0.0	57.1	6.6	-1.9	0.0	0.0	20.5	0.0	0.0	19.6
15	595594.06	4916746.91	286.81	0	D	8000	94.2	0.0	0.0	0.0	0.0	57.1	23.7	-1.9	0.0	0.0	21.8	0.0	0.0	-6.5
15	595594.06	4916746.91	286.81	0	N	32	61.3	0.0	-188.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-188.7
15	595594.06	4916746.91	286.81	0	N	63	88.3	0.0	-188.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	-162.6
15	595594.06	4916746.91	286.81	0	N	125	97.3	0.0	-188.0	0.0	0.0	57.1	0.1	0.3	0.0	0.0	6.7	0.0	0.0	-155.0
15	595594.06	4916746.91	286.81	0	N	250	99.4	0.0	-188.0	0.0	0.0	57.1	0.2	-0.8	0.0	0.0	9.4	0.0	0.0	-154.6
15	595594.06	4916746.91	286.81	0	N	500	105.5	0.0	-188.0	0.0	0.0	57.1	0.4	-1.9	0.0	0.0	12.5	0.0	0.0	-150.7
15	595594.06	4916746.91	286.81	0	N	1000	108.8	0.0	-188.0	0.0	0.0	57.1	0.7	-1.9	0.0	0.0	15.0	0.0	0.0	-150.1
15	595594.06	4916746.91	286.81	0	N	2000	107.4	0.0	-188.0	0.0	0.0	57.1	2.0	-1.9	0.0	0.0	17.7	0.0	0.0	-155.4
15	595594.06	4916746.91	286.81	0	N	4000	102.0	0.0	-188.0	0.0	0.0	57.1	6.6	-1.9	0.0	0.0	20.5	0.0	0.0	-168.4
15	595594.06	4916746.91	286.81	0	N	8000	94.2	0.0	-188.0	0.0	0.0	57.1	23.7	-1.9	0.0	0.0	21.8	0.0	0.0	-194.5
15	595594.06	4916746.91	286.81	0	E	32	61.3	0.0	-188.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-188.7
15	595594.06	4916746.91	286.81	0	E	63	88.3	0.0	-188.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	-162.6
15	595594.06	4916746.91	286.81	0	E	125	97.3	0.0	-188.0	0.0	0.0	57.1	0.1	0.3	0.0	0.0	6.7	0.0	0.0	-155.0
15	595594.06	4916746.91	286.81	0	E	250	99.4	0.0	-188.0	0.0	0.0	57.1	0.2	-0.8	0.0	0.0	9.4	0.0	0.0	-154.6
15	595594.06	4916746.91	286.81	0	E	500	105.5	0.0	-188.0	0.0	0.0	57.1	0.4	-1.9	0.0	0.0	12.5	0.0	0.0	-150.7
15	595594.06	4916746.91	286.81	0	E	1000	108.8	0.0	-188.0	0.0	0.0	57.1	0.7	-1.9	0.0	0.0	15.0	0.0	0.0	-150.1
15	595594.06	4916746.91	286.81	0	E	2000	107.4	0.0	-188.0	0.0	0.0	57.1	2.0	-1.9	0.0	0.0	17.7	0.0	0.0	-155.4
15	595594.06	4916746.91	286.81	0	E	4000	102.0	0.0	-188.0	0.0	0.0	57.1	6.6	-1.9	0.0	0.0	20.5	0.0	0.0	-168.4
15	595594.06	4916746.91	286.81	0	E	8000	94.2	0.0	-188.0	0.0	0.0	57.1	23.7	-1.9	0.0	0.0	21.8	0.0	0.0	-194.5

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
21	595475.41	4916926.21	289.06	0	D	32	-63.1	21.4	0.0	0.0	0.0	62.0	0.0	-4.3	0.0	0.0	9.1	0.0	0.0	-108.5
21	595475.41	4916926.21	289.06	0	D	63	61.9	21.4	0.0	0.0	0.0	62.0	0.0	-4.3	0.0	0.0	9.1	0.0	0.0	16.4
21	595475.41	4916926.21	289.06	0	D	125	70.5	21.4	0.0	0.0	0.0	62.0	0.1	4.9	0.0	0.0	0.0	0.0	0.0	24.9
21	595475.41	4916926.21	289.06	0	D	250	74.2	21.4	0.0	0.0	0.0	62.0	0.4	5.9	0.0	0.0	0.0	0.0	0.0	27.3
21	595475.41	4916926.21	289.06	0	D	500	75.7	21.4	0.0	0.0	0.0	62.0	0.7	0.4	0.0	0.0	4.8	0.0	0.0	29.2
21	595475.41	4916926.21	289.06	0	D	1000	76.0	21.4	0.0	0.0	0.0	62.0	1.3	-0.5	0.0	0.0	6.2	0.0	0.0	28.5
21	595475.41	4916926.21	289.06	0	D	2000	75.3	21.4	0.0	0.0	0.0	62.0	3.4	-0.6	0.0	0.0	6.9	0.0	0.0	24.9
21	595475.41	4916926.21	289.06	0	D	4000	73.0	21.4	0.0	0.0	0.0	62.0	11.6	-0.6	0.0	0.0	8.0	0.0	0.0	13.3
21	595475.41	4916926.21	289.06	0	D	8000	67.3	21.4	0.0	0.0	0.0	62.0	41.5	-0.6	0.0	0.0	9.7	0.0	0.0	-23.9
21	595475.41	4916926.21	289.06	0	N	32	-63.1	21.4	0.0	0.0	0.0	62.0	0.0	-4.3	0.0	0.0	9.1	0.0	0.0	-108.5
21	595475.41	4916926.21	289.06	0	N	63	61.9	21.4	0.0	0.0	0.0	62.0	0.0	-4.3	0.0	0.0	9.1	0.0	0.0	16.4
21	595475.41	4916926.21	289.06	0	N	125	70.5	21.4	0.0	0.0	0.0	62.0	0.1	4.9	0.0	0.0	0.0	0.0	0.0	24.9
21	595475.41	4916926.21	289.06	0	N	250	74.2	21.4	0.0	0.0	0.0	62.0	0.4	5.9	0.0	0.0	0.0	0.0	0.0	27.3
21	595475.41	4916926.21	289.06	0	N	500	75.7	21.4	0.0	0.0	0.0	62.0	0.7	0.4	0.0	0.0	4.8	0.0	0.0	29.2
21	595475.41	4916926.21	289.06	0	N	1000	76.0	21.4	0.0	0.0	0.0	62.0	1.3	-0.5	0.0	0.0	6.2	0.0	0.0	28.5
21	595475.41	4916926.21	289.06	0	N	2000	75.3	21.4	0.0	0.0	0.0	62.0	3.4	-0.6	0.0	0.0	6.9	0.0	0.0	24.9
21	595475.41	4916926.21	289.06	0	N	4000	73.0	21.4	0.0	0.0	0.0	62.0	11.6	-0.6	0.0	0.0	8.0	0.0	0.0	13.3
21	595475.41	4916926.21	289.06	0	N	8000	67.3	21.4	0.0	0.0	0.0	62.0	41.5	-0.6	0.0	0.0	9.7	0.0	0.0	-23.9
21	595475.41	4916926.21	289.06	0	E	32	-182.4	21.4	0.0	0.0	0.0	62.0	0.0	-4.3	0.0	0.0	9.1	0.0	0.0	-227.8
21	595475.41	4916926.21	289.06	0	E	63	-57.5	21.4	0.0	0.0	0.0	62.0	0.0	-4.3	0.0	0.0	9.1	0.0	0.0	-102.9
21	595475.41	4916926.21	289.06	0	E	125	-48.8	21.4	0.0	0.0	0.0	62.0	0.1	4.9	0.0	0.0	0.0	0.0	0.0	-94.5
21	595475.41	4916926.21	289.06	0	E	250	-45.2	21.4	0.0	0.0	0.0	62.0	0.4	5.9	0.0	0.0	0.0	0.0	0.0	-92.0
21	595475.41	4916926.21	289.06	0	E	500	-43.6	21.4	0.0	0.0	0.0	62.0	0.7	0.4	0.0	0.0	4.8	0.0	0.0	-90.1

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
21	595475.41	4916926.21	289.06	0	E	1000	-43.3	21.4	0.0	0.0	0.0	62.0	1.3	-0.5	0.0	0.0	6.2	0.0	0.0	-90.8
21	595475.41	4916926.21	289.06	0	E	2000	-44.1	21.4	0.0	0.0	0.0	62.0	3.4	-0.6	0.0	0.0	6.9	0.0	0.0	-94.4
21	595475.41	4916926.21	289.06	0	E	4000	-46.4	21.4	0.0	0.0	0.0	62.0	11.6	-0.6	0.0	0.0	8.0	0.0	0.0	-106.1
21	595475.41	4916926.21	289.06	0	E	8000	-52.1	21.4	0.0	0.0	0.0	62.0	41.5	-0.6	0.0	0.0	9.7	0.0	0.0	-143.2
25	595581.84	4916757.75	283.76	0	D	32	-63.1	14.1	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-111.1
25	595581.84	4916757.75	283.76	0	D	63	61.9	14.1	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	12.8
25	595581.84	4916757.75	283.76	0	D	125	70.5	14.1	0.0	0.0	0.0	57.3	0.1	0.4	0.0	0.0	7.1	0.0	0.0	19.7
25	595581.84	4916757.75	283.76	0	D	250	74.2	14.1	0.0	0.0	0.0	57.3	0.2	-0.8	0.0	0.0	10.1	0.0	0.0	21.4
25	595581.84	4916757.75	283.76	0	D	500	75.7	14.1	0.0	0.0	0.0	57.3	0.4	-1.8	0.0	0.0	13.4	0.0	0.0	20.6
25	595581.84	4916757.75	283.76	0	D	1000	76.0	14.1	0.0	0.0	0.0	57.3	0.8	-1.9	0.0	0.0	16.0	0.0	0.0	18.0
25	595581.84	4916757.75	283.76	0	D	2000	75.3	14.1	0.0	0.0	0.0	57.3	2.0	-1.9	0.0	0.0	18.7	0.0	0.0	13.2
25	595581.84	4916757.75	283.76	0	D	4000	73.0	14.1	0.0	0.0	0.0	57.3	6.8	-1.9	0.0	0.0	21.6	0.0	0.0	3.2
25	595581.84	4916757.75	283.76	0	D	8000	67.3	14.1	0.0	0.0	0.0	57.3	24.2	-1.9	0.0	0.0	21.7	0.0	0.0	-20.0
25	595581.84	4916757.75	283.76	0	N	32	-63.1	14.1	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-111.1
25	595581.84	4916757.75	283.76	0	N	63	61.9	14.1	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	12.8
25	595581.84	4916757.75	283.76	0	N	125	70.5	14.1	0.0	0.0	0.0	57.3	0.1	0.4	0.0	0.0	7.1	0.0	0.0	19.7
25	595581.84	4916757.75	283.76	0	N	250	74.2	14.1	0.0	0.0	0.0	57.3	0.2	-0.8	0.0	0.0	10.1	0.0	0.0	21.4
25	595581.84	4916757.75	283.76	0	N	500	75.7	14.1	0.0	0.0	0.0	57.3	0.4	-1.8	0.0	0.0	13.4	0.0	0.0	20.6
25	595581.84	4916757.75	283.76	0	N	1000	76.0	14.1	0.0	0.0	0.0	57.3	0.8	-1.9	0.0	0.0	16.0	0.0	0.0	18.0
25	595581.84	4916757.75	283.76	0	N	2000	75.3	14.1	0.0	0.0	0.0	57.3	2.0	-1.9	0.0	0.0	18.7	0.0	0.0	13.2
25	595581.84	4916757.75	283.76	0	N	4000	73.0	14.1	0.0	0.0	0.0	57.3	6.8	-1.9	0.0	0.0	21.6	0.0	0.0	3.2
25	595581.84	4916757.75	283.76	0	N	8000	67.3	14.1	0.0	0.0	0.0	57.3	24.2	-1.9	0.0	0.0	21.7	0.0	0.0	-20.0
25	595581.84	4916757.75	283.76	0	E	32	-182.4	14.1	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-230.4
25	595581.84	4916757.75	283.76	0	E	63	-57.5	14.1	0.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	-106.5
25	595581.84	4916757.75	283.76	0	E	125	-48.8	14.1	0.0	0.0	0.0	57.3	0.1	0.4	0.0	0.0	7.1	0.0	0.0	-99.7
25	595581.84	4916757.75	283.76	0	E	250	-45.2	14.1	0.0	0.0	0.0	57.3	0.2	-0.8	0.0	0.0	10.1	0.0	0.0	-97.9
25	595581.84	4916757.75	283.76	0	E	500	-43.6	14.1	0.0	0.0	0.0	57.3	0.4	-1.8	0.0	0.0	13.4	0.0	0.0	-98.8
25	595581.84	4916757.75	283.76	0	E	1000	-43.3	14.1	0.0	0.0	0.0	57.3	0.8	-1.9	0.0	0.0	16.0	0.0	0.0	-101.4
25	595581.84	4916757.75	283.76	0	E	2000	-44.1	14.1	0.0	0.0	0.0	57.3	2.0	-1.9	0.0	0.0	18.7	0.0	0.0	-106.2
25	595581.84	4916757.75	283.76	0	E	4000	-46.4	14.1	0.0	0.0	0.0	57.3	6.8	-1.9	0.0	0.0	21.6	0.0	0.0	-116.1
25	595581.84	4916757.75	283.76	0	E	8000	-52.1	14.1	0.0	0.0	0.0	57.3	24.2	-1.9	0.0	0.0	21.7	0.0	0.0	-139.3
28	595578.66	4916777.07	282.33	0	D	32	-63.1	11.3	0.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	8.0	0.0	0.0	-114.5
28	595578.66	4916777.07	282.33	0	D	63	61.9	11.3	0.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	8.7	0.0	0.0	9.7
28	595578.66	4916777.07	282.33	0	D	125	70.5	11.3	0.0	0.0	0.0	58.0	0.1	0.3	0.0	0.0	7.0	0.0	0.0	16.5
28	595578.66	4916777.07	282.33	0	D	250	74.2	11.3	0.0	0.0	0.0	58.0	0.2	-0.9	0.0	0.0	9.9	0.0	0.0	18.3
28	595578.66	4916777.07	282.33	0	D	500	75.7	11.3	0.0	0.0	0.0	58.0	0.4	-2.0	0.0	0.0	13.2	0.0	0.0	17.5
28	595578.66	4916777.07	282.33	0	D	1000	76.0	11.3	0.0	0.0	0.0	58.0	0.8	-2.0	0.0	0.0	15.7	0.0	0.0	14.8
28	595578.66	4916777.07	282.33	0	D	2000	75.3	11.3	0.0	0.0	0.0	58.0	2.2	-2.0	0.0	0.0	18.5	0.0	0.0	10.0
28	595578.66	4916777.07	282.33	0	D	4000	73.0	11.3	0.0	0.0	0.0	58.0	7.3	-2.0	0.0	0.0	21.4	0.0	0.0	-0.4
28	595578.66	4916777.07	282.33	0	D	8000	67.3	11.3	0.0	0.0	0.0	58.0	26.1	-2.0	0.0	0.0	21.9	0.0	0.0	-25.3
28	595578.66	4916777.07	282.33	0	N	32	-63.1	11.3	0.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	8.0	0.0	0.0	-114.5
28	595578.66	4916777.07	282.33	0	N	63	61.9	11.3	0.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	8.7	0.0	0.0	9.7
28	595578.66	4916777.07	282.33	0	N	125	70.5	11.3	0.0	0.0	0.0	58.0	0.1	0.3	0.0	0.0	7.0	0.0	0.0	16.5
28	595578.66	4916777.07	282.33	0	N	250	74.2	11.3	0.0	0.0	0.0	58.0	0.2	-0.9	0.0	0.0	9.9	0.0	0.0	18.3
28	595578.66	4916777.07	282.33	0	N	500	75.7	11.3	0.0	0.0	0.0	58.0	0.4	-2.0	0.0	0.0	13.2	0.0	0.0	17.5
28	595578.66	4916777.07	282.33	0	N	1000	76.0	11.3	0.0	0.0	0.0	58.0	0.8	-2.0	0.0	0.0	15.7	0.0	0.0	14.8
28	595578.66	4916777.07	282.33	0	N	2000	75.3	11.3	0.0	0.0	0.0	58.0	2.2	-2.0	0.0	0.0	18.5	0.0	0.0	10.0
28	595578.66	4916777.07	282.33	0	N	4000	73.0	11.3	0.0	0.0	0.0	58.0	7.3	-2.0	0.0	0.0	21.4	0.0	0.0	-0.4
28	595578.66	4916777.07	282.33	0	N	8000	67.3	11.3	0.0	0.0	0.0	58.0	26.1	-2.0	0.0	0.0	21.9	0.0	0.0	-25.3
28	595578.66	4916777.07	282.33	0	E	32	-182.4	11.3	0.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	8.0	0.0	0.0	-233.9
28	595578.66	4916777.07	282.33	0	E	63	-57.5	11.3	0.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	8.7	0.0	0.0	-109.6
28	595578.66	4916777.07	282.33	0	E	125	-48.8	11.3	0.0	0.0	0.0	58.0	0.1	0.3	0.0	0.0	7.0	0.0	0.0	-102.9
28	595578.66	4916777.07	282.33	0	E	250	-45.2	11.3	0.0	0.0	0.0	58.0	0.2	-0.9	0.0	0.0	9.9	0.0	0.0	-101.1
28	595578.66	4916777.07	282.33	0	E	500	-43.6	11.3	0.0	0.0	0.0	58.0	0.4	-2.0	0.0	0.0	13.2	0.0	0.0	-101.9
28	595578.66	4916777.07	282.33	0	E	1000	-43.3	11.3	0.0	0.0	0.0	58.0	0.8	-2.0	0.0	0.0	15.7	0.0	0.0	-104.5
28	595578.66	4916777.07	282.33	0	E	2000	-44.1	11.3	0.0	0.0	0.0	58.0	2.2	-2.0	0.0	0.0	18.5	0.0	0.0	-109.4
28	595578.66	4916777.07	282.33	0	E	4000	-46.4	11.3	0.0	0.0	0.0	58.0	7.3	-2.0	0.0	0.0	21.4	0.0	0.0	-119.7
28	595578.66	4916777.07	282.33	0	E	8000	-52.1	11.3	0.0	0.0	0.0	58.0	26.1	-2.0	0.0	0.0	21.9	0.0	0.0	-144.6
32	595568.55	4916806.43	282.78	0	D	32	-63.1	16.9	0.0	0.0	0.0	58.9	0.0	-3.5	0.0	0.0	8.3	0.0	0.0	-109.8
32	595568.55	4916806.43	282.78	0	D	63	61.9	16.9	0.0	0.0	0.0	58.9	0.0	-3.5	0.0	0.0	8.3	0.0	0.0	15.1
32	595568.55	4916806.43	282.78	0	D	125	70.5	16.9	0.0	0.0	0.0	58.9	0.1	0.3	0.0	0.0	5.9	0.0	0.0	22.2
32	595568.55	4916806.43	282.78	0	D	250	74.2	16.9	0.0	0.0	0.0	58.9	0.3	-1.1	0.0	0.0	8.7	0.0	0.0	24.3
32	595568.55	4916806.43	282.78	0	D	500	75.7	16.9	0.0	0.0	0.0	58.9	0.5	-2.2	0.0	0.0	11.7	0.0	0.0	23.7

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
32	595568.55	4916806.43	282.78	0	D	1000	76.0	16.9	0.0	0.0	0.0	58.9	0.9	-2.2	0.0	0.0	14.1	0.0	0.0	21.2
32	595568.55	4916806.43	282.78	0	D	2000	75.3	16.9	0.0	0.0	0.0	58.9	2.4	-2.2	0.0	0.0	16.8	0.0	0.0	16.3
32	595568.55	4916806.43	282.78	0	D	4000	73.0	16.9	0.0	0.0	0.0	58.9	8.1	-2.2	0.0	0.0	19.6	0.0	0.0	5.5
32	595568.55	4916806.43	282.78	0	D	8000	67.3	16.9	0.0	0.0	0.0	58.9	28.9	-2.2	0.0	0.0	21.9	0.0	0.0	-23.2
32	595568.55	4916806.43	282.78	0	N	32	-63.1	16.9	0.0	0.0	0.0	58.9	0.0	-3.5	0.0	0.0	8.3	0.0	0.0	-109.8
32	595568.55	4916806.43	282.78	0	N	63	61.9	16.9	0.0	0.0	0.0	58.9	0.0	-3.5	0.0	0.0	8.3	0.0	0.0	15.1
32	595568.55	4916806.43	282.78	0	N	125	70.5	16.9	0.0	0.0	0.0	58.9	0.1	0.3	0.0	0.0	5.9	0.0	0.0	22.2
32	595568.55	4916806.43	282.78	0	N	250	74.2	16.9	0.0	0.0	0.0	58.9	0.3	-1.1	0.0	0.0	8.7	0.0	0.0	24.3
32	595568.55	4916806.43	282.78	0	N	500	75.7	16.9	0.0	0.0	0.0	58.9	0.5	-2.2	0.0	0.0	11.7	0.0	0.0	23.7
32	595568.55	4916806.43	282.78	0	N	1000	76.0	16.9	0.0	0.0	0.0	58.9	0.9	-2.2	0.0	0.0	14.1	0.0	0.0	21.2
32	595568.55	4916806.43	282.78	0	N	2000	75.3	16.9	0.0	0.0	0.0	58.9	2.4	-2.2	0.0	0.0	16.8	0.0	0.0	16.3
32	595568.55	4916806.43	282.78	0	N	4000	73.0	16.9	0.0	0.0	0.0	58.9	8.1	-2.2	0.0	0.0	19.6	0.0	0.0	5.5
32	595568.55	4916806.43	282.78	0	N	8000	67.3	16.9	0.0	0.0	0.0	58.9	28.9	-2.2	0.0	0.0	21.9	0.0	0.0	-23.2
32	595568.55	4916806.43	282.78	0	E	32	-182.4	16.9	0.0	0.0	0.0	58.9	0.0	-3.5	0.0	0.0	8.3	0.0	0.0	-229.2
32	595568.55	4916806.43	282.78	0	E	63	-57.5	16.9	0.0	0.0	0.0	58.9	0.0	-3.5	0.0	0.0	8.3	0.0	0.0	-104.2
32	595568.55	4916806.43	282.78	0	E	125	-48.8	16.9	0.0	0.0	0.0	58.9	0.1	0.3	0.0	0.0	5.9	0.0	0.0	-97.2
32	595568.55	4916806.43	282.78	0	E	250	-45.2	16.9	0.0	0.0	0.0	58.9	0.3	-1.1	0.0	0.0	8.7	0.0	0.0	-95.1
32	595568.55	4916806.43	282.78	0	E	500	-43.6	16.9	0.0	0.0	0.0	58.9	0.5	-2.2	0.0	0.0	11.7	0.0	0.0	-95.6
32	595568.55	4916806.43	282.78	0	E	1000	-43.3	16.9	0.0	0.0	0.0	58.9	0.9	-2.2	0.0	0.0	14.1	0.0	0.0	-98.1
32	595568.55	4916806.43	282.78	0	E	2000	-44.1	16.9	0.0	0.0	0.0	58.9	2.4	-2.2	0.0	0.0	16.8	0.0	0.0	-103.0
32	595568.55	4916806.43	282.78	0	E	4000	-46.4	16.9	0.0	0.0	0.0	58.9	8.1	-2.2	0.0	0.0	19.6	0.0	0.0	-113.8
32	595568.55	4916806.43	282.78	0	E	8000	-52.1	16.9	0.0	0.0	0.0	58.9	28.9	-2.2	0.0	0.0	21.9	0.0	0.0	-142.5
37	595543.12	4916850.79	283.72	0	D	32	-63.1	17.3	0.0	0.0	0.0	60.1	0.0	-3.8	0.0	0.0	4.0	0.0	0.0	-106.0
37	595543.12	4916850.79	283.72	0	D	63	61.9	17.3	0.0	0.0	0.0	60.1	0.0	-3.8	0.0	0.0	4.7	0.0	0.0	18.3
37	595543.12	4916850.79	283.72	0	D	125	70.5	17.3	0.0	0.0	0.0	60.1	0.1	0.6	0.0	0.0	3.3	0.0	0.0	23.8
37	595543.12	4916850.79	283.72	0	D	250	74.2	17.3	0.0	0.0	0.0	60.1	0.3	-1.0	0.0	0.0	5.5	0.0	0.0	26.7
37	595543.12	4916850.79	283.72	0	D	500	75.7	17.3	0.0	0.0	0.0	60.1	0.5	-2.4	0.0	0.0	8.0	0.0	0.0	26.8
37	595543.12	4916850.79	283.72	0	D	1000	76.0	17.3	0.0	0.0	0.0	60.1	1.0	-2.4	0.0	0.0	10.1	0.0	0.0	24.5
37	595543.12	4916850.79	283.72	0	D	2000	75.3	17.3	0.0	0.0	0.0	60.1	2.7	-2.4	0.0	0.0	12.6	0.0	0.0	19.6
37	595543.12	4916850.79	283.72	0	D	4000	73.0	17.3	0.0	0.0	0.0	60.1	9.3	-2.4	0.0	0.0	15.2	0.0	0.0	8.1
37	595543.12	4916850.79	283.72	0	D	8000	67.3	17.3	0.0	0.0	0.0	60.1	33.2	-2.4	0.0	0.0	18.1	0.0	0.0	-24.3
37	595543.12	4916850.79	283.72	0	N	32	-63.1	17.3	0.0	0.0	0.0	60.1	0.0	-3.8	0.0	0.0	4.0	0.0	0.0	-106.0
37	595543.12	4916850.79	283.72	0	N	63	61.9	17.3	0.0	0.0	0.0	60.1	0.0	-3.8	0.0	0.0	4.7	0.0	0.0	18.3
37	595543.12	4916850.79	283.72	0	N	125	70.5	17.3	0.0	0.0	0.0	60.1	0.1	0.6	0.0	0.0	3.3	0.0	0.0	23.8
37	595543.12	4916850.79	283.72	0	N	250	74.2	17.3	0.0	0.0	0.0	60.1	0.3	-1.0	0.0	0.0	5.5	0.0	0.0	26.7
37	595543.12	4916850.79	283.72	0	N	500	75.7	17.3	0.0	0.0	0.0	60.1	0.5	-2.4	0.0	0.0	8.0	0.0	0.0	26.8
37	595543.12	4916850.79	283.72	0	N	1000	76.0	17.3	0.0	0.0	0.0	60.1	1.0	-2.4	0.0	0.0	10.1	0.0	0.0	24.5
37	595543.12	4916850.79	283.72	0	N	2000	75.3	17.3	0.0	0.0	0.0	60.1	2.7	-2.4	0.0	0.0	12.6	0.0	0.0	19.6
37	595543.12	4916850.79	283.72	0	N	4000	73.0	17.3	0.0	0.0	0.0	60.1	9.3	-2.4	0.0	0.0	15.2	0.0	0.0	8.1
37	595543.12	4916850.79	283.72	0	N	8000	67.3	17.3	0.0	0.0	0.0	60.1	33.2	-2.4	0.0	0.0	18.1	0.0	0.0	-24.3
37	595543.12	4916850.79	283.72	0	E	32	-182.4	17.3	0.0	0.0	0.0	60.1	0.0	-3.8	0.0	0.0	4.0	0.0	0.0	-225.4
37	595543.12	4916850.79	283.72	0	E	63	-57.5	17.3	0.0	0.0	0.0	60.1	0.0	-3.8	0.0	0.0	4.7	0.0	0.0	-101.1
37	595543.12	4916850.79	283.72	0	E	125	-48.8	17.3	0.0	0.0	0.0	60.1	0.1	0.6	0.0	0.0	3.3	0.0	0.0	-95.6
37	595543.12	4916850.79	283.72	0	E	250	-45.2	17.3	0.0	0.0	0.0	60.1	0.3	-1.0	0.0	0.0	5.5	0.0	0.0	-92.7
37	595543.12	4916850.79	283.72	0	E	500	-43.6	17.3	0.0	0.0	0.0	60.1	0.5	-2.4	0.0	0.0	8.0	0.0	0.0	-92.5
37	595543.12	4916850.79	283.72	0	E	1000	-43.3	17.3	0.0	0.0	0.0	60.1	1.0	-2.4	0.0	0.0	10.1	0.0	0.0	-94.8
37	595543.12	4916850.79	283.72	0	E	2000	-44.1	17.3	0.0	0.0	0.0	60.1	2.7	-2.4	0.0	0.0	12.6	0.0	0.0	-99.7
37	595543.12	4916850.79	283.72	0	E	4000	-46.4	17.3	0.0	0.0	0.0	60.1	9.3	-2.4	0.0	0.0	15.2	0.0	0.0	-111.3
37	595543.12	4916850.79	283.72	0	E	8000	-52.1	17.3	0.0	0.0	0.0	60.1	33.2	-2.4	0.0	0.0	18.1	0.0	0.0	-143.6
42	595525.18	4916874.45	283.72	0	D	32	-63.1	7.1	0.0	0.0	0.0	60.7	0.0	-4.0	0.0	0.0	4.0	0.0	0.0	-116.7
42	595525.18	4916874.45	283.72	0	D	63	61.9	7.1	0.0	0.0	0.0	60.7	0.0	-4.0	0.0	0.0	4.0	0.0	0.0	8.2
42	595525.18	4916874.45	283.72	0	D	125	70.5	7.1	0.0	0.0	0.0	60.7	0.1	0.9	0.0	0.0	1.6	0.0	0.0	14.3
42	595525.18	4916874.45	283.72	0	D	250	74.2	7.1	0.0	0.0	0.0	60.7	0.3	-0.8	0.0	0.0	2.6	0.0	0.0	18.5
42	595525.18	4916874.45	283.72	0	D	500	75.7	7.1	0.0	0.0	0.0	60.7	0.6	-2.2	0.0	0.0	3.4	0.0	0.0	20.3
42	595525.18	4916874.45	283.72	0	D	1000	76.0	7.1	0.0	0.0	0.0	60.7	1.1	-2.2	0.0	0.0	3.8	0.0	0.0	19.7
42	595525.18	4916874.45	283.72	0	D	2000	75.3	7.1	0.0	0.0	0.0	60.7	2.9	-2.2	0.0	0.0	4.4	0.0	0.0	16.6
42	595525.18	4916874.45	283.72	0	D	4000	73.0	7.1	0.0	0.0	0.0	60.7	10.0	-2.2	0.0	0.0	5.1	0.0	0.0	6.5
42	595525.18	4916874.45	283.72	0	D	8000	67.3	7.1	0.0	0.0	0.0	60.7	35.6	-2.2	0.0	0.0	6.0	0.0	0.0	-25.7
42	595525.18	4916874.45	283.72	0	N	32	-63.1	7.1	0.0	0.0	0.0	60.7	0.0	-4.0	0.0	0.0	4.0	0.0	0.0	-116.7
42	595525.18	4916874.45	283.72	0	N	63	61.9	7.1	0.0	0.0	0.0	60.7	0.0	-4.0	0.0	0.0	4.0	0.0	0.0	8.2
42	595525.18	4916874.45	283.72	0	N	125	70.5	7.1	0.0	0.0	0.0	60.7	0.1	0.9	0.0	0.0	1.6	0.0	0.0	14.3
42	595525.18	4916874.45	283.72	0	N	250	74.2	7.1	0.0	0.0	0.0	60.7	0.3	-0.8	0.0	0.0	2.6	0.0	0.0	18.5
42	595525.18	4916874.45	283.72	0	N	500	75.7	7.1	0.0	0.0	0.0	60.7	0.6	-2.2	0.0	0.0	3.4	0.0	0.0	20.3

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
42	595525.18	4916874.45	283.72	0	N	1000	76.0	7.1	0.0	0.0	0.0	60.7	1.1	-2.2	0.0	0.0	3.8	0.0	0.0	19.7
42	595525.18	4916874.45	283.72	0	N	2000	75.3	7.1	0.0	0.0	0.0	60.7	2.9	-2.2	0.0	0.0	4.4	0.0	0.0	16.6
42	595525.18	4916874.45	283.72	0	N	4000	73.0	7.1	0.0	0.0	0.0	60.7	10.0	-2.2	0.0	0.0	5.1	0.0	0.0	6.5
42	595525.18	4916874.45	283.72	0	N	8000	67.3	7.1	0.0	0.0	0.0	60.7	35.6	-2.2	0.0	0.0	6.0	0.0	0.0	-25.7
42	595525.18	4916874.45	283.72	0	E	32	-182.4	7.1	0.0	0.0	0.0	60.7	0.0	-4.0	0.0	0.0	4.0	0.0	0.0	-236.0
42	595525.18	4916874.45	283.72	0	E	63	-57.5	7.1	0.0	0.0	0.0	60.7	0.0	-4.0	0.0	0.0	4.0	0.0	0.0	-111.1
42	595525.18	4916874.45	283.72	0	E	125	-48.8	7.1	0.0	0.0	0.0	60.7	0.1	0.9	0.0	0.0	1.6	0.0	0.0	-105.0
42	595525.18	4916874.45	283.72	0	E	250	-45.2	7.1	0.0	0.0	0.0	60.7	0.3	-0.8	0.0	0.0	2.6	0.0	0.0	-100.9
42	595525.18	4916874.45	283.72	0	E	500	-43.6	7.1	0.0	0.0	0.0	60.7	0.6	-2.2	0.0	0.0	3.4	0.0	0.0	-99.0
42	595525.18	4916874.45	283.72	0	E	1000	-43.3	7.1	0.0	0.0	0.0	60.7	1.1	-2.2	0.0	0.0	3.8	0.0	0.0	-99.6
42	595525.18	4916874.45	283.72	0	E	2000	-44.1	7.1	0.0	0.0	0.0	60.7	2.9	-2.2	0.0	0.0	4.4	0.0	0.0	-102.8
42	595525.18	4916874.45	283.72	0	E	4000	-46.4	7.1	0.0	0.0	0.0	60.7	10.0	-2.2	0.0	0.0	5.1	0.0	0.0	-112.8
42	595525.18	4916874.45	283.72	0	E	8000	-52.1	7.1	0.0	0.0	0.0	60.7	35.6	-2.2	0.0	0.0	6.0	0.0	0.0	-145.0
46	595392.23	4917026.24	284.12	0	D	32	-63.1	20.9	0.0	0.0	0.0	64.4	0.0	-4.7	0.0	0.0	14.1	0.0	0.0	-115.9
46	595392.23	4917026.24	284.12	0	D	63	61.9	20.9	0.0	0.0	0.0	64.4	0.1	-4.7	0.0	0.0	17.2	0.0	0.0	5.9
46	595392.23	4917026.24	284.12	0	D	125	70.5	20.9	0.0	0.0	0.0	64.4	0.2	6.2	0.0	0.0	10.3	0.0	0.0	10.4
46	595392.23	4917026.24	284.12	0	D	250	74.2	20.9	0.0	0.0	0.0	64.4	0.5	6.5	0.0	0.0	13.8	0.0	0.0	9.9
46	595392.23	4917026.24	284.12	0	D	500	75.7	20.9	0.0	0.0	0.0	64.4	0.9	1.0	0.0	0.0	22.7	0.0	0.0	7.7
46	595392.23	4917026.24	284.12	0	D	1000	76.0	20.9	0.0	0.0	0.0	64.4	1.7	0.0	0.0	0.0	25.0	0.0	0.0	5.9
46	595392.23	4917026.24	284.12	0	D	2000	75.3	20.9	0.0	0.0	0.0	64.4	4.5	0.0	0.0	0.0	25.0	0.0	0.0	2.3
46	595392.23	4917026.24	284.12	0	D	4000	73.0	20.9	0.0	0.0	0.0	64.4	15.3	0.0	0.0	0.0	25.0	0.0	0.0	-10.7
46	595392.23	4917026.24	284.12	0	D	8000	67.3	20.9	0.0	0.0	0.0	64.4	54.4	0.0	0.0	0.0	25.0	0.0	0.0	-55.5
46	595392.23	4917026.24	284.12	0	N	32	-63.1	20.9	0.0	0.0	0.0	64.4	0.0	-4.7	0.0	0.0	14.1	0.0	0.0	-115.9
46	595392.23	4917026.24	284.12	0	N	63	61.9	20.9	0.0	0.0	0.0	64.4	0.1	-4.7	0.0	0.0	17.2	0.0	0.0	5.9
46	595392.23	4917026.24	284.12	0	N	125	70.5	20.9	0.0	0.0	0.0	64.4	0.2	6.2	0.0	0.0	10.3	0.0	0.0	10.4
46	595392.23	4917026.24	284.12	0	N	250	74.2	20.9	0.0	0.0	0.0	64.4	0.5	6.5	0.0	0.0	13.8	0.0	0.0	9.9
46	595392.23	4917026.24	284.12	0	N	500	75.7	20.9	0.0	0.0	0.0	64.4	0.9	1.0	0.0	0.0	22.7	0.0	0.0	7.7
46	595392.23	4917026.24	284.12	0	N	1000	76.0	20.9	0.0	0.0	0.0	64.4	1.7	0.0	0.0	0.0	25.0	0.0	0.0	5.9
46	595392.23	4917026.24	284.12	0	N	2000	75.3	20.9	0.0	0.0	0.0	64.4	4.5	0.0	0.0	0.0	25.0	0.0	0.0	2.3
46	595392.23	4917026.24	284.12	0	N	4000	73.0	20.9	0.0	0.0	0.0	64.4	15.3	0.0	0.0	0.0	25.0	0.0	0.0	-10.7
46	595392.23	4917026.24	284.12	0	N	8000	67.3	20.9	0.0	0.0	0.0	64.4	54.4	0.0	0.0	0.0	25.0	0.0	0.0	-55.5
46	595392.23	4917026.24	284.12	0	E	32	-182.4	20.9	0.0	0.0	0.0	64.4	0.0	-4.7	0.0	0.0	14.1	0.0	0.0	-235.3
46	595392.23	4917026.24	284.12	0	E	63	-57.5	20.9	0.0	0.0	0.0	64.4	0.1	-4.7	0.0	0.0	17.2	0.0	0.0	-113.5
46	595392.23	4917026.24	284.12	0	E	125	-48.8	20.9	0.0	0.0	0.0	64.4	0.2	6.2	0.0	0.0	10.3	0.0	0.0	-109.0
46	595392.23	4917026.24	284.12	0	E	250	-45.2	20.9	0.0	0.0	0.0	64.4	0.5	6.5	0.0	0.0	13.8	0.0	0.0	-109.4
46	595392.23	4917026.24	284.12	0	E	500	-43.6	20.9	0.0	0.0	0.0	64.4	0.9	1.0	0.0	0.0	22.7	0.0	0.0	-111.6
46	595392.23	4917026.24	284.12	0	E	1000	-43.3	20.9	0.0	0.0	0.0	64.4	1.7	0.0	0.0	0.0	25.0	0.0	0.0	-113.4
46	595392.23	4917026.24	284.12	0	E	2000	-44.1	20.9	0.0	0.0	0.0	64.4	4.5	0.0	0.0	0.0	25.0	0.0	0.0	-117.0
46	595392.23	4917026.24	284.12	0	E	4000	-46.4	20.9	0.0	0.0	0.0	64.4	15.3	0.0	0.0	0.0	25.0	0.0	0.0	-130.1
46	595392.23	4917026.24	284.12	0	E	8000	-52.1	20.9	0.0	0.0	0.0	64.4	54.4	0.0	0.0	0.0	25.0	0.0	0.0	-174.9
50	595332.41	4917079.18	272.12	0	D	32	-63.1	17.0	0.0	0.0	0.0	65.5	0.0	-4.8	0.0	0.0	11.4	0.0	0.0	-118.2
50	595332.41	4917079.18	272.12	0	D	63	61.9	17.0	0.0	0.0	0.0	65.5	0.1	-4.8	0.0	0.0	13.5	0.0	0.0	4.6
50	595332.41	4917079.18	272.12	0	D	125	70.5	17.0	0.0	0.0	0.0	65.5	0.2	6.6	0.0	0.0	5.1	0.0	0.0	10.1
50	595332.41	4917079.18	272.12	0	D	250	74.2	17.0	0.0	0.0	0.0	65.5	0.6	6.5	0.0	0.0	8.3	0.0	0.0	10.3
50	595332.41	4917079.18	272.12	0	D	500	75.7	17.0	0.0	0.0	0.0	65.5	1.0	1.0	0.0	0.0	16.8	0.0	0.0	8.4
50	595332.41	4917079.18	272.12	0	D	1000	76.0	17.0	0.0	0.0	0.0	65.5	1.9	0.0	0.0	0.0	20.7	0.0	0.0	4.8
50	595332.41	4917079.18	272.12	0	D	2000	75.3	17.0	0.0	0.0	0.0	65.5	5.1	0.0	0.0	0.0	23.7	0.0	0.0	-2.1
50	595332.41	4917079.18	272.12	0	D	4000	73.0	17.0	0.0	0.0	0.0	65.5	17.5	0.0	0.0	0.0	25.0	0.0	0.0	-18.0
50	595332.41	4917079.18	272.12	0	D	8000	67.3	17.0	0.0	0.0	0.0	65.5	62.3	0.0	0.0	0.0	25.0	0.0	0.0	-68.5
50	595332.41	4917079.18	272.12	0	N	32	-63.1	17.0	0.0	0.0	0.0	65.5	0.0	-4.8	0.0	0.0	11.4	0.0	0.0	-118.2
50	595332.41	4917079.18	272.12	0	N	63	61.9	17.0	0.0	0.0	0.0	65.5	0.1	-4.8	0.0	0.0	13.5	0.0	0.0	4.6
50	595332.41	4917079.18	272.12	0	N	125	70.5	17.0	0.0	0.0	0.0	65.5	0.2	6.6	0.0	0.0	5.1	0.0	0.0	10.1
50	595332.41	4917079.18	272.12	0	N	250	74.2	17.0	0.0	0.0	0.0	65.5	0.6	6.5	0.0	0.0	8.3	0.0	0.0	10.3
50	595332.41	4917079.18	272.12	0	N	500	75.7	17.0	0.0	0.0	0.0	65.5	1.0	1.0	0.0	0.0	16.8	0.0	0.0	8.4
50	595332.41	4917079.18	272.12	0	N	1000	76.0	17.0	0.0	0.0	0.0	65.5	1.9	0.0	0.0	0.0	20.7	0.0	0.0	4.8
50	595332.41	4917079.18	272.12	0	N	2000	75.3	17.0	0.0	0.0	0.0	65.5	5.1	0.0	0.0	0.0	23.7	0.0	0.0	-2.1
50	595332.41	4917079.18	272.12	0	N	4000	73.0	17.0	0.0	0.0	0.0	65.5	17.5	0.0	0.0	0.0	25.0	0.0	0.0	-18.0
50	595332.41	4917079.18	272.12	0	N	8000	67.3	17.0	0.0	0.0	0.0	65.5	62.3	0.0	0.0	0.0	25.0	0.0	0.0	-68.5
50	595332.41	4917079.18	272.12	0	E	32	-182.4	17.0	0.0	0.0	0.0	65.5	0.0	-4.8	0.0	0.0	11.4	0.0	0.0	-237.6
50	595332.41	4917079.18	272.12	0	E	63	-57.5	17.0	0.0	0.0	0.0	65.5	0.1	-4.8	0.0	0.0	13.5	0.0	0.0	-114.7
50	595332.41	4917079.18	272.12	0	E	125	-48.8	17.0	0.0	0.0	0.0	65.5	0.2	6.6	0.0	0.0	5.1	0.0	0.0	-109.3
50	595332.41	4917079.18	272.12	0	E	250	-45.2	17.0	0.0	0.0	0.0	65.5	0.6	6.5	0.0	0.0	8.3	0.0	0.0	-109.1
50	595332.41	4917079.18	272.12	0	E	500	-43.6	17.0	0.0	0.0	0.0	65.5	1.0	1.0	0.0	0.0	16.8	0.0	0.0	-111.0

Line Source, ISO 9613, Name: "", 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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
50	595332.41	4917079.18	272.12	0	E	1000	-43.3	17.0	0.0	0.0	0.0	65.5	1.9	0.0	0.0	0.0	20.7	0.0	0.0	-114.5
50	595332.41	4917079.18	272.12	0	E	2000	-44.1	17.0	0.0	0.0	0.0	65.5	5.1	0.0	0.0	0.0	23.7	0.0	0.0	-121.5
50	595332.41	4917079.18	272.12	0	E	4000	-46.4	17.0	0.0	0.0	0.0	65.5	17.5	0.0	0.0	0.0	25.0	0.0	0.0	-137.4
50	595332.41	4917079.18	272.12	0	E	8000	-52.1	17.0	0.0	0.0	0.0	65.5	62.3	0.0	0.0	0.0	25.0	0.0	0.0	-187.8
54	595303.29	4917080.77	270.39	0	D	32	-63.1	9.4	0.0	0.0	0.0	65.7	0.0	-4.9	0.0	0.0	11.8	0.0	0.0	-126.3
54	595303.29	4917080.77	270.39	0	D	63	61.9	9.4	0.0	0.0	0.0	65.7	0.1	-4.9	0.0	0.0	13.9	0.0	0.0	-3.5
54	595303.29	4917080.77	270.39	0	D	125	70.5	9.4	0.0	0.0	0.0	65.7	0.2	6.7	0.0	0.0	4.9	0.0	0.0	2.5
54	595303.29	4917080.77	270.39	0	D	250	74.2	9.4	0.0	0.0	0.0	65.7	0.6	6.5	0.0	0.0	7.7	0.0	0.0	3.1
54	595303.29	4917080.77	270.39	0	D	500	75.7	9.4	0.0	0.0	0.0	65.7	1.0	1.0	0.0	0.0	16.0	0.0	0.0	1.4
54	595303.29	4917080.77	270.39	0	D	1000	76.0	9.4	0.0	0.0	0.0	65.7	2.0	0.0	0.0	0.0	19.9	0.0	0.0	-2.1
54	595303.29	4917080.77	270.39	0	D	2000	75.3	9.4	0.0	0.0	0.0	65.7	5.3	0.0	0.0	0.0	22.8	0.0	0.0	-9.1
54	595303.29	4917080.77	270.39	0	D	4000	73.0	9.4	0.0	0.0	0.0	65.7	17.8	0.0	0.0	0.0	25.0	0.0	0.0	-26.2
54	595303.29	4917080.77	270.39	0	D	8000	67.3	9.4	0.0	0.0	0.0	65.7	63.5	0.0	0.0	0.0	25.0	0.0	0.0	-77.5
54	595303.29	4917080.77	270.39	0	N	32	-63.1	9.4	0.0	0.0	0.0	65.7	0.0	-4.9	0.0	0.0	11.8	0.0	0.0	-126.3
54	595303.29	4917080.77	270.39	0	N	63	61.9	9.4	0.0	0.0	0.0	65.7	0.1	-4.9	0.0	0.0	13.9	0.0	0.0	-3.5
54	595303.29	4917080.77	270.39	0	N	125	70.5	9.4	0.0	0.0	0.0	65.7	0.2	6.7	0.0	0.0	4.9	0.0	0.0	2.5
54	595303.29	4917080.77	270.39	0	N	250	74.2	9.4	0.0	0.0	0.0	65.7	0.6	6.5	0.0	0.0	7.7	0.0	0.0	3.1
54	595303.29	4917080.77	270.39	0	N	500	75.7	9.4	0.0	0.0	0.0	65.7	1.0	1.0	0.0	0.0	16.0	0.0	0.0	1.4
54	595303.29	4917080.77	270.39	0	N	1000	76.0	9.4	0.0	0.0	0.0	65.7	2.0	0.0	0.0	0.0	19.9	0.0	0.0	-2.1
54	595303.29	4917080.77	270.39	0	N	2000	75.3	9.4	0.0	0.0	0.0	65.7	5.3	0.0	0.0	0.0	22.8	0.0	0.0	-9.1
54	595303.29	4917080.77	270.39	0	N	4000	73.0	9.4	0.0	0.0	0.0	65.7	17.8	0.0	0.0	0.0	25.0	0.0	0.0	-26.2
54	595303.29	4917080.77	270.39	0	N	8000	67.3	9.4	0.0	0.0	0.0	65.7	63.5	0.0	0.0	0.0	25.0	0.0	0.0	-77.5
54	595303.29	4917080.77	270.39	0	E	32	-182.4	9.4	0.0	0.0	0.0	65.7	0.0	-4.9	0.0	0.0	11.8	0.0	0.0	-245.7
54	595303.29	4917080.77	270.39	0	E	63	-57.5	9.4	0.0	0.0	0.0	65.7	0.1	-4.9	0.0	0.0	13.9	0.0	0.0	-122.9
54	595303.29	4917080.77	270.39	0	E	125	-48.8	9.4	0.0	0.0	0.0	65.7	0.2	6.7	0.0	0.0	4.9	0.0	0.0	-116.9
54	595303.29	4917080.77	270.39	0	E	250	-45.2	9.4	0.0	0.0	0.0	65.7	0.6	6.5	0.0	0.0	7.7	0.0	0.0	-116.2
54	595303.29	4917080.77	270.39	0	E	500	-43.6	9.4	0.0	0.0	0.0	65.7	1.0	1.0	0.0	0.0	16.0	0.0	0.0	-118.0
54	595303.29	4917080.77	270.39	0	E	1000	-43.3	9.4	0.0	0.0	0.0	65.7	2.0	0.0	0.0	0.0	19.9	0.0	0.0	-121.5
54	595303.29	4917080.77	270.39	0	E	2000	-44.1	9.4	0.0	0.0	0.0	65.7	5.3	0.0	0.0	0.0	22.8	0.0	0.0	-128.5
54	595303.29	4917080.77	270.39	0	E	4000	-46.4	9.4	0.0	0.0	0.0	65.7	17.8	0.0	0.0	0.0	25.0	0.0	0.0	-145.5
54	595303.29	4917080.77	270.39	0	E	8000	-52.1	9.4	0.0	0.0	0.0	65.7	63.5	0.0	0.0	0.0	25.0	0.0	0.0	-196.9

Receiver
Name: V2
ID: V2
X: 595793.70 m
Y: 4916614.02 m
Z: 304.50 m

Point Source, ISO 9613, Name: "Shipping - 2 loaders", ID: ""																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
13	595706.87	4917043.02	278.88	0	D	32	-36.4	0.0	0.0	0.0	0.0	63.8	0.0	-4.6	0.0	0.0	13.9	0.0	0.0	-109.6
13	595706.87	4917043.02	278.88	0	D	63	90.8	0.0	0.0	0.0	0.0	63.8	0.1	-4.6	0.0	0.0	16.2	0.0	0.0	15.3
13	595706.87	4917043.02	278.88	0	D	125	95.9	0.0	0.0	0.0	0.0	63.8	0.2	1.7	0.0	0.0	12.5	0.0	0.0	17.7
13	595706.87	4917043.02	278.88	0	D	250	98.4	0.0	0.0	0.0	0.0	63.8	0.5	1.7	0.0	0.0	15.3	0.0	0.0	17.1
13	595706.87	4917043.02	278.88	0	D	500	104.8	0.0	0.0	0.0	0.0	63.8	0.8	-2.0	0.0	0.0	21.8	0.0	0.0	20.3
13	595706.87	4917043.02	278.88	0	D	1000	103.0	0.0	0.0	0.0	0.0	63.8	1.6	-2.5	0.0	0.0	25.3	0.0	0.0	14.8
13	595706.87	4917043.02	278.88	0	D	2000	101.2	0.0	0.0	0.0	0.0	63.8	4.2	-2.5	0.0	0.0	27.5	0.0	0.0	8.1
13	595706.87	4917043.02	278.88	0	D	4000	95.0	0.0	0.0	0.0	0.0	63.8	14.4	-2.5	0.0	0.0	27.5	0.0	0.0	-8.2
13	595706.87	4917043.02	278.88	0	D	8000	85.9	0.0	0.0	0.0	0.0	63.8	51.2	-2.5	0.0	0.0	27.5	0.0	0.0	-54.2
13	595706.87	4917043.02	278.88	0	N	32	-36.4	0.0	-3.0	0.0	0.0	63.8	0.0	-4.6	0.0	0.0	13.9	0.0	0.0	-112.6
13	595706.87	4917043.02	278.88	0	N	63	90.8	0.0	-3.0	0.0	0.0	63.8	0.1	-4.6	0.0	0.0	16.2	0.0	0.0	12.2
13	595706.87	4917043.02	278.88	0	N	125	95.9	0.0	-3.0	0.0	0.0	63.8	0.2	1.7	0.0	0.0	12.5	0.0	0.0	14.7
13	595706.87	4917043.02	278.88	0	N	250	98.4	0.0	-3.0	0.0	0.0	63.8	0.5	1.7	0.0	0.0	15.3	0.0	0.0	14.1
13	595706.87	4917043.02	278.88	0	N	500	104.8	0.0	-3.0	0.0	0.0	63.8	0.8	-2.0	0.0	0.0	21.8	0.0	0.0	17.3
13	595706.87	4917043.02	278.88	0	N	1000	103.0	0.0	-3.0	0.0	0.0	63.8	1.6	-2.5	0.0	0.0	25.3	0.0	0.0	11.7
13	595706.87	4917043.02	278.88	0	N	2000	101.2	0.0	-3.0	0.0	0.0	63.8	4.2	-2.5	0.0	0.0	27.5	0.0	0.0	5.1
13	595706.87	4917043.02	278.88	0	N	4000	95.0	0.0	-3.0	0.0	0.0	63.8	14.4	-2.5	0.0	0.0	27.5	0.0	0.0	-11.2
13	595706.87	4917043.02	278.88	0	N	8000	85.9	0.0	-3.0	0.0	0.0	63.8	51.2	-2.5	0.0	0.0	27.5	0.0	0.0	-57.2
13	595706.87	4917043.02	278.88	0	E	32	-36.4	0.0	-188.0	0.0	0.0	63.8	0.0	-4.6	0.0	0.0	13.9	0.0	0.0	-297.6
13	595706.87	4917043.02	278.88	0	E	63	90.8	0.0	-188.0	0.0	0.0	63.8	0.1	-4.6	0.0	0.0	16.2	0.0	0.0	-172.7
13	595706.87	4917043.02	278.88	0	E	125	95.9	0.0	-188.0	0.0	0.0	63.8	0.2	1.7	0.0	0.0	12.5	0.0	0.0	-170.3
13	595706.87	4917043.02	278.88	0	E	250	98.4	0.0	-188.0	0.0	0.0	63.8	0.5	1.7	0.0	0.0	15.3	0.0	0.0	-170.9
13	595706.87	4917043.02	278.88	0	E	500	104.8	0.0	-188.0	0.0	0.0	63.8	0.8	-2.0	0.0	0.0	21.8	0.0	0.0	-167.7
13	595706.87	4917043.02	278.88	0	E	1000	103.0	0.0	-188.0	0.0	0.0	63.8	1.6	-2.5	0.0	0.0	25.3	0.0	0.0	-173.2
13	595706.87	4917043.02	278.88	0	E	2000	101.2	0.0	-188.0	0.0	0.0	63.8	4.2	-2.5	0.0	0.0	27.5	0.0	0.0	-179.9
13	595706.87	4917043.02	278.88	0	E	4000	95.0	0.0	-188.0	0.0	0.0	63.8	14.4	-2.5	0.0	0.0	27.5	0.0	0.0	-196.2
13	595706.87	4917043.02	278.88	0	E	8000	85.9	0.0	-188.0	0.0	0.0	63.8	51.2	-2.5	0.0	0.0	27.5	0.0	0.0	-242.2

Point Source, ISO 9613, Name: "Screen + Loader", ID: "WEST"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
30	595688.37	4916757.00	291.11	0	D	32	61.3	0.0	0.0	0.0	0.0	56.0	0.0	-3.0	0.0	0.0	8.3	0.0	0.0	-0.0
30	595688.37	4916757.00	291.11	0	D	63	88.3	0.0	0.0	0.0	0.0	56.0	0.0	-3.0	0.0	0.0	8.8	0.0	0.0	26.5
30	595688.37	4916757.00	291.11	0	D	125	97.3	0.0	0.0	0.0	0.0	56.0	0.1	0.8	0.0	0.0	5.8	0.0	0.0	34.6
30	595688.37	4916757.00	291.11	0	D	250	99.4	0.0	0.0	0.0	0.0	56.0	0.2	-0.2	0.0	0.0	8.1	0.0	0.0	35.3
30	595688.37	4916757.00	291.11	0	D	500	105.5	0.0	0.0	0.0	0.0	56.0	0.3	-1.7	0.0	0.0	11.4	0.0	0.0	39.4
30	595688.37	4916757.00	291.11	0	D	1000	108.8	0.0	0.0	0.0	0.0	56.0	0.7	-1.7	0.0	0.0	13.6	0.0	0.0	40.2
30	595688.37	4916757.00	291.11	0	D	2000	107.4	0.0	0.0	0.0	0.0	56.0	1.7	-1.7	0.0	0.0	16.2	0.0	0.0	35.2
30	595688.37	4916757.00	291.11	0	D	4000	102.0	0.0	0.0	0.0	0.0	56.0	5.8	-1.7	0.0	0.0	19.0	0.0	0.0	22.8
30	595688.37	4916757.00	291.11	0	D	8000	94.2	0.0	0.0	0.0	0.0	56.0	20.8	-1.7	0.0	0.0	21.7	0.0	0.0	-2.6
30	595688.37	4916757.00	291.11	0	N	32	61.3	0.0	-188.0	0.0	0.0	56.0	0.0	-3.0	0.0	0.0	8.3	0.0	0.0	-188.0
30	595688.37	4916757.00	291.11	0	N	63	88.3	0.0	-188.0	0.0	0.0	56.0	0.0	-3.0	0.0	0.0	8.8	0.0	0.0	-161.5
30	595688.37	4916757.00	291.11	0	N	125	97.3	0.0	-188.0	0.0	0.0	56.0	0.1	0.8	0.0	0.0	5.8	0.0	0.0	-153.4
30	595688.37	4916757.00	291.11	0	N	250	99.4	0.0	-188.0	0.0	0.0	56.0	0.2	-0.2	0.0	0.0	8.1	0.0	0.0	-152.7
30	595688.37	4916757.00	291.11	0	N	500	105.5	0.0	-188.0	0.0	0.0	56.0	0.3	-1.7	0.0	0.0	11.4	0.0	0.0	-148.6
30	595688.37	4916757.00	291.11	0	N	1000	108.8	0.0	-188.0	0.0	0.0	56.0	0.7	-1.7	0.0	0.0	13.6	0.0	0.0	-147.8
30	595688.37	4916757.00	291.11	0	N	2000	107.4	0.0	-188.0	0.0	0.0	56.0	1.7	-1.7	0.0	0.0	16.2	0.0	0.0	-152.8
30	595688.37	4916757.00	291.11	0	N	4000	102.0	0.0	-188.0	0.0	0.0	56.0	5.8	-1.7	0.0	0.0	19.0	0.0	0.0	-165.2
30	595688.37	4916757.00	291.11	0	N	8000	94.2	0.0	-188.0	0.0	0.0	56.0	20.8	-1.7	0.0	0.0	21.7	0.0	0.0	-190.6
30	595688.37	4916757.00	291.11	0	E	32	61.3	0.0	-188.0	0.0	0.0	56.0	0.0	-3.0	0.0	0.0	8.3	0.0	0.0	-188.0
30	595688.37	4916757.00	291.11	0	E	63	88.3	0.0	-188.0	0.0	0.0	56.0	0.0	-3.0	0.0	0.0	8.8	0.0	0.0	-161.5
30	595688.37	4916757.00	291.11	0	E	125	97.3	0.0	-188.0	0.0	0.0	56.0	0.1	0.8	0.0	0.0	5.8	0.0	0.0	-153.4
30	595688.37	4916757.00	291.11	0	E	250	99.4	0.0	-188.0	0.0	0.0	56.0	0.2	-0.2	0.0	0.0	8.1	0.0	0.0	-152.7

Point Source, ISO 9613, Name: "Screen + Loader", ID: "WEST"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
30	595688.37	4916757.00	291.11	0	E	500	105.5	0.0	-188.0	0.0	0.0	56.0	0.3	-1.7	0.0	0.0	11.4	0.0	0.0	-148.6
30	595688.37	4916757.00	291.11	0	E	1000	108.8	0.0	-188.0	0.0	0.0	56.0	0.7	-1.7	0.0	0.0	13.6	0.0	0.0	-147.8
30	595688.37	4916757.00	291.11	0	E	2000	107.4	0.0	-188.0	0.0	0.0	56.0	1.7	-1.7	0.0	0.0	16.2	0.0	0.0	-152.8
30	595688.37	4916757.00	291.11	0	E	4000	102.0	0.0	-188.0	0.0	0.0	56.0	5.8	-1.7	0.0	0.0	19.0	0.0	0.0	-165.2
30	595688.37	4916757.00	291.11	0	E	8000	94.2	0.0	-188.0	0.0	0.0	56.0	20.8	-1.7	0.0	0.0	21.7	0.0	0.0	-190.6

Point Source, ISO 9613, Name: "2 Crushers + 2 Screens + 2 Stackers", ID: ""																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
48	595714.15	4917038.92	280.42	0	D	32	83.0	0.0	0.0	0.0	0.0	63.7	0.0	-4.3	0.0	0.0	13.3	0.0	0.0	10.3
48	595714.15	4917038.92	280.42	0	D	63	95.5	0.0	0.0	0.0	0.0	63.7	0.1	-4.3	0.0	0.0	15.5	0.0	0.0	20.6
48	595714.15	4917038.92	280.42	0	D	125	106.5	0.0	0.0	0.0	0.0	63.7	0.2	1.0	0.0	0.0	12.7	0.0	0.0	29.0
48	595714.15	4917038.92	280.42	0	D	250	105.6	0.0	0.0	0.0	0.0	63.7	0.5	-0.5	0.0	0.0	16.9	0.0	0.0	25.1
48	595714.15	4917038.92	280.42	0	D	500	112.7	0.0	0.0	0.0	0.0	63.7	0.8	-2.6	0.0	0.0	21.8	0.0	0.0	29.0
48	595714.15	4917038.92	280.42	0	D	1000	111.6	0.0	0.0	0.0	0.0	63.7	1.6	-2.6	0.0	0.0	24.8	0.0	0.0	24.2
48	595714.15	4917038.92	280.42	0	D	2000	112.6	0.0	0.0	0.0	0.0	63.7	4.2	-2.6	0.0	0.0	27.6	0.0	0.0	19.7
48	595714.15	4917038.92	280.42	0	D	4000	107.6	0.0	0.0	0.0	0.0	63.7	14.2	-2.6	0.0	0.0	27.6	0.0	0.0	4.7
48	595714.15	4917038.92	280.42	0	D	8000	101.7	0.0	0.0	0.0	0.0	63.7	50.6	-2.6	0.0	0.0	27.6	0.0	0.0	-37.7
48	595714.15	4917038.92	280.42	0	N	32	83.0	0.0	-188.0	0.0	0.0	63.7	0.0	-4.3	0.0	0.0	13.3	0.0	0.0	-177.7
48	595714.15	4917038.92	280.42	0	N	63	95.5	0.0	-188.0	0.0	0.0	63.7	0.1	-4.3	0.0	0.0	15.5	0.0	0.0	-167.4
48	595714.15	4917038.92	280.42	0	N	125	106.5	0.0	-188.0	0.0	0.0	63.7	0.2	1.0	0.0	0.0	12.7	0.0	0.0	-159.0
48	595714.15	4917038.92	280.42	0	N	250	105.6	0.0	-188.0	0.0	0.0	63.7	0.5	-0.5	0.0	0.0	16.9	0.0	0.0	-162.9
48	595714.15	4917038.92	280.42	0	N	500	112.7	0.0	-188.0	0.0	0.0	63.7	0.8	-2.6	0.0	0.0	21.8	0.0	0.0	-159.0
48	595714.15	4917038.92	280.42	0	N	1000	111.6	0.0	-188.0	0.0	0.0	63.7	1.6	-2.6	0.0	0.0	24.8	0.0	0.0	-163.8
48	595714.15	4917038.92	280.42	0	N	2000	112.6	0.0	-188.0	0.0	0.0	63.7	4.2	-2.6	0.0	0.0	27.6	0.0	0.0	-168.3
48	595714.15	4917038.92	280.42	0	N	4000	107.6	0.0	-188.0	0.0	0.0	63.7	14.2	-2.6	0.0	0.0	27.6	0.0	0.0	-183.3
48	595714.15	4917038.92	280.42	0	N	8000	101.7	0.0	-188.0	0.0	0.0	63.7	50.6	-2.6	0.0	0.0	27.6	0.0	0.0	-225.7
48	595714.15	4917038.92	280.42	0	E	32	83.0	0.0	-188.0	0.0	0.0	63.7	0.0	-4.3	0.0	0.0	13.3	0.0	0.0	-177.7
48	595714.15	4917038.92	280.42	0	E	63	95.5	0.0	-188.0	0.0	0.0	63.7	0.1	-4.3	0.0	0.0	15.5	0.0	0.0	-167.4
48	595714.15	4917038.92	280.42	0	E	125	106.5	0.0	-188.0	0.0	0.0	63.7	0.2	1.0	0.0	0.0	12.7	0.0	0.0	-159.0
48	595714.15	4917038.92	280.42	0	E	250	105.6	0.0	-188.0	0.0	0.0	63.7	0.5	-0.5	0.0	0.0	16.9	0.0	0.0	-162.9
48	595714.15	4917038.92	280.42	0	E	500	112.7	0.0	-188.0	0.0	0.0	63.7	0.8	-2.6	0.0	0.0	21.8	0.0	0.0	-159.0
48	595714.15	4917038.92	280.42	0	E	1000	111.6	0.0	-188.0	0.0	0.0	63.7	1.6	-2.6	0.0	0.0	24.8	0.0	0.0	-163.8
48	595714.15	4917038.92	280.42	0	E	2000	112.6	0.0	-188.0	0.0	0.0	63.7	4.2	-2.6	0.0	0.0	27.6	0.0	0.0	-168.3
48	595714.15	4917038.92	280.42	0	E	4000	107.6	0.0	-188.0	0.0	0.0	63.7	14.2	-2.6	0.0	0.0	27.6	0.0	0.0	-183.3
48	595714.15	4917038.92	280.42	0	E	8000	101.7	0.0	-188.0	0.0	0.0	63.7	50.6	-2.6	0.0	0.0	27.6	0.0	0.0	-225.7

Line Source, ISO 9613, Name: "", ID: "SHIPP"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
52	595427.18	4917081.30	273.12	0	D	32	-63.1	21.5	0.0	0.0	0.0	66.5	0.0	-5.0	0.0	0.0	16.6	0.0	0.0	-119.7
52	595427.18	4917081.30	273.12	0	D	63	61.9	21.5	0.0	0.0	0.0	66.5	0.1	-5.0	0.0	0.0	19.2	0.0	0.0	2.6
52	595427.18	4917081.30	273.12	0	D	125	70.5	21.5	0.0	0.0	0.0	66.5	0.2	4.2	0.0	0.0	12.7	0.0	0.0	8.3
52	595427.18	4917081.30	273.12	0	D	250	74.2	21.5	0.0	0.0	0.0	66.5	0.6	4.4	0.0	0.0	15.4	0.0	0.0	8.7
52	595427.18	4917081.30	273.12	0	D	500	75.7	21.5	0.0	0.0	0.0	66.5	1.1	-0.6	0.0	0.0	23.4	0.0	0.0	6.8
52	595427.18	4917081.30	273.12	0	D	1000	76.0	21.5	0.0	0.0	0.0	66.5	2.2	-1.6	0.0	0.0	26.6	0.0	0.0	3.8
52	595427.18	4917081.30	273.12	0	D	2000	75.3	21.5	0.0	0.0	0.0	66.5	5.7	-1.6	0.0	0.0	26.6	0.0	0.0	-0.5
52	595427.18	4917081.30	273.12	0	D	4000	73.0	21.5	0.0	0.0	0.0	66.5	19.5	-1.6	0.0	0.0	26.6	0.0	0.0	-16.6
52	595427.18	4917081.30	273.12	0	D	8000	67.3	21.5	0.0	0.0	0.0	66.5	69.5	-1.6	0.0	0.0	26.6	0.0	0.0	-72.2
52	595427.18	4917081.30	273.12	0	N	32	-63.1	21.5	0.0	0.0	0.0	66.5	0.0	-5.0	0.0	0.0	16.6	0.0	0.0	-119.7
52	595427.18	4917081.30	273.12	0	N	63	61.9	21.5	0.0	0.0	0.0	66.5	0.1	-5.0	0.0	0.0	19.2	0.0	0.0	2.6
52	595427.18	4917081.30	273.12	0	N	125	70.5	21.5	0.0	0.0	0.0	66.5	0.2	4.2	0.0	0.0	12.7	0.0	0.0	8.3
52	595427.18	4917081.30	273.12	0	N	250	74.2	21.5	0.0	0.0	0.0	66.5	0.6	4.4	0.0	0.0	15.4	0.0	0.0	8.7
52	595427.18	4917081.30	273.12	0	N	500	75.7	21.5	0.0	0.0	0.0	66.5	1.1	-0.6	0.0	0.0	23.4	0.0	0.0	6.8
52	595427.18	4917081.30	273.12	0	N	1000	76.0	21.5	0.0	0.0	0.0	66.5	2.2	-1.6	0.0	0.0	26.6	0.0	0.0	3.8
52	595427.18	4917081.30	273.12	0	N	2000	75.3	21.5	0.0	0.0	0.0	66.5	5.7	-1.6	0.0	0.0	26.6	0.0	0.0	-0.5
52	595427.18	4917081.30	273.12	0	N	4000	73.0	21.5	0.0	0.0	0.0	66.5	19.5	-1.6	0.0	0.0	26.6	0.0	0.0	-16.6
52	595427.18	4917081.30	273.12	0	N	8000	67.3	21.5	0.0	0.0	0.0	66.5	69.5	-1.6	0.0	0.0	26.6	0.0	0.0	-72.2
52	595427.18	4917081.30	273.12	0	E	32	-182.4	21.5	0.0	0.0	0.0	66.5	0.0	-5.0	0.0	0.0	16.6	0.0	0.0	-239.1
52	595427.18	4917081.30	273.12	0	E	63	-57.5	21.5	0.0	0.0	0.0	66.5	0.1	-5.0	0.0	0.0	19.2	0.0	0.0	-116.8
52	595427.18	4917081.30	273.12	0	E	125	-48.8	21.5	0.0	0.0	0.0	66.5	0.2	4.2	0.0	0.0	12.7	0.0	0.0	-111.0
52	595427.18	4917081.30	273.12	0	E	250	-45.2	21.5	0.0	0.0	0.0	66.5	0.6	4.4	0.0	0.0	15.4	0.0	0.0	-110.7
52	595427.18	4917081.30	273.12	0	E	500	-43.6	21.5	0.0	0.0	0.0	66.5	1.1	-0.6	0.0	0.0	23.4	0.0	0.0	-112.6

Line Source, ISO 9613, Name: "", ID: "SHIPP"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
52	595427.18	4917081.30	273.12	0	E	1000	-43.3	21.5	0.0	0.0	0.0	66.5	2.2	-1.6	0.0	0.0	26.6	0.0	0.0	-115.5
52	595427.18	4917081.30	273.12	0	E	2000	-44.1	21.5	0.0	0.0	0.0	66.5	5.7	-1.6	0.0	0.0	26.6	0.0	0.0	-119.9
52	595427.18	4917081.30	273.12	0	E	4000	-46.4	21.5	0.0	0.0	0.0	66.5	19.5	-1.6	0.0	0.0	26.6	0.0	0.0	-135.9
52	595427.18	4917081.30	273.12	0	E	8000	-52.1	21.5	0.0	0.0	0.0	66.5	69.5	-1.6	0.0	0.0	26.6	0.0	0.0	-191.6
57	595548.21	4917080.12	272.84	0	D	32	-63.1	20.1	0.0	0.0	0.0	65.4	0.0	-4.8	0.0	0.0	13.7	0.0	0.0	-117.3
57	595548.21	4917080.12	272.84	0	D	63	61.9	20.1	0.0	0.0	0.0	65.4	0.1	-4.8	0.0	0.0	15.9	0.0	0.0	5.4
57	595548.21	4917080.12	272.84	0	D	125	70.5	20.1	0.0	0.0	0.0	65.4	0.2	3.7	0.0	0.0	9.8	0.0	0.0	11.4
57	595548.21	4917080.12	272.84	0	D	250	74.2	20.1	0.0	0.0	0.0	65.4	0.6	4.3	0.0	0.0	12.0	0.0	0.0	12.0
57	595548.21	4917080.12	272.84	0	D	500	75.7	20.1	0.0	0.0	0.0	65.4	1.0	-0.8	0.0	0.0	19.9	0.0	0.0	10.2
57	595548.21	4917080.12	272.84	0	D	1000	76.0	20.1	0.0	0.0	0.0	65.4	1.9	-1.7	0.0	0.0	23.8	0.0	0.0	6.7
57	595548.21	4917080.12	272.84	0	D	2000	75.3	20.1	0.0	0.0	0.0	65.4	5.1	-1.8	0.0	0.0	26.8	0.0	0.0	-0.2
57	595548.21	4917080.12	272.84	0	D	4000	73.0	20.1	0.0	0.0	0.0	65.4	17.3	-1.8	0.0	0.0	26.8	0.0	0.0	-14.7
57	595548.21	4917080.12	272.84	0	D	8000	67.3	20.1	0.0	0.0	0.0	65.4	61.7	-1.8	0.0	0.0	26.8	0.0	0.0	-64.7
57	595548.21	4917080.12	272.84	0	N	32	-63.1	20.1	0.0	0.0	0.0	65.4	0.0	-4.8	0.0	0.0	13.7	0.0	0.0	-117.3
57	595548.21	4917080.12	272.84	0	N	63	61.9	20.1	0.0	0.0	0.0	65.4	0.1	-4.8	0.0	0.0	15.9	0.0	0.0	5.4
57	595548.21	4917080.12	272.84	0	N	125	70.5	20.1	0.0	0.0	0.0	65.4	0.2	3.7	0.0	0.0	9.8	0.0	0.0	11.4
57	595548.21	4917080.12	272.84	0	N	250	74.2	20.1	0.0	0.0	0.0	65.4	0.6	4.3	0.0	0.0	12.0	0.0	0.0	12.0
57	595548.21	4917080.12	272.84	0	N	500	75.7	20.1	0.0	0.0	0.0	65.4	1.0	-0.8	0.0	0.0	19.9	0.0	0.0	10.2
57	595548.21	4917080.12	272.84	0	N	1000	76.0	20.1	0.0	0.0	0.0	65.4	1.9	-1.7	0.0	0.0	23.8	0.0	0.0	6.7
57	595548.21	4917080.12	272.84	0	N	2000	75.3	20.1	0.0	0.0	0.0	65.4	5.1	-1.8	0.0	0.0	26.8	0.0	0.0	-0.2
57	595548.21	4917080.12	272.84	0	N	4000	73.0	20.1	0.0	0.0	0.0	65.4	17.3	-1.8	0.0	0.0	26.8	0.0	0.0	-14.7
57	595548.21	4917080.12	272.84	0	N	8000	67.3	20.1	0.0	0.0	0.0	65.4	61.7	-1.8	0.0	0.0	26.8	0.0	0.0	-64.7
57	595548.21	4917080.12	272.84	0	E	32	-182.4	20.1	0.0	0.0	0.0	65.4	0.0	-4.8	0.0	0.0	13.7	0.0	0.0	-236.6
57	595548.21	4917080.12	272.84	0	E	63	-57.5	20.1	0.0	0.0	0.0	65.4	0.1	-4.8	0.0	0.0	15.9	0.0	0.0	-113.9
57	595548.21	4917080.12	272.84	0	E	125	-48.8	20.1	0.0	0.0	0.0	65.4	0.2	3.7	0.0	0.0	9.8	0.0	0.0	-107.9
57	595548.21	4917080.12	272.84	0	E	250	-45.2	20.1	0.0	0.0	0.0	65.4	0.6	4.3	0.0	0.0	12.0	0.0	0.0	-107.3
57	595548.21	4917080.12	272.84	0	E	500	-43.6	20.1	0.0	0.0	0.0	65.4	1.0	-0.8	0.0	0.0	19.9	0.0	0.0	-109.1
57	595548.21	4917080.12	272.84	0	E	1000	-43.3	20.1	0.0	0.0	0.0	65.4	1.9	-1.7	0.0	0.0	23.8	0.0	0.0	-112.6
57	595548.21	4917080.12	272.84	0	E	2000	-44.1	20.1	0.0	0.0	0.0	65.4	5.1	-1.8	0.0	0.0	26.8	0.0	0.0	-119.5
57	595548.21	4917080.12	272.84	0	E	4000	-46.4	20.1	0.0	0.0	0.0	65.4	17.3	-1.8	0.0	0.0	26.8	0.0	0.0	-134.0
57	595548.21	4917080.12	272.84	0	E	8000	-52.1	20.1	0.0	0.0	0.0	65.4	61.7	-1.8	0.0	0.0	26.8	0.0	0.0	-184.1
75	595630.26	4917067.31	273.09	0	D	32	-63.1	18.0	0.0	0.0	0.0	64.7	0.0	-4.7	0.0	0.0	15.0	0.0	0.0	-120.1
75	595630.26	4917067.31	273.09	0	D	63	61.9	18.0	0.0	0.0	0.0	64.7	0.1	-4.7	0.0	0.0	17.5	0.0	0.0	2.3
75	595630.26	4917067.31	273.09	0	D	125	70.5	18.0	0.0	0.0	0.0	64.7	0.2	3.4	0.0	0.0	12.1	0.0	0.0	8.2
75	595630.26	4917067.31	273.09	0	D	250	74.2	18.0	0.0	0.0	0.0	64.7	0.5	4.2	0.0	0.0	14.2	0.0	0.0	8.7
75	595630.26	4917067.31	273.09	0	D	500	75.7	18.0	0.0	0.0	0.0	64.7	0.9	-0.9	0.0	0.0	22.2	0.0	0.0	6.9
75	595630.26	4917067.31	273.09	0	D	1000	76.0	18.0	0.0	0.0	0.0	64.7	1.8	-1.9	0.0	0.0	26.1	0.0	0.0	3.4
75	595630.26	4917067.31	273.09	0	D	2000	75.3	18.0	0.0	0.0	0.0	64.7	4.7	-1.9	0.0	0.0	26.9	0.0	0.0	-1.1
75	595630.26	4917067.31	273.09	0	D	4000	73.0	18.0	0.0	0.0	0.0	64.7	15.8	-1.9	0.0	0.0	26.9	0.0	0.0	-14.5
75	595630.26	4917067.31	273.09	0	D	8000	67.3	18.0	0.0	0.0	0.0	64.7	56.4	-1.9	0.0	0.0	26.9	0.0	0.0	-60.8
75	595630.26	4917067.31	273.09	0	N	32	-63.1	18.0	0.0	0.0	0.0	64.7	0.0	-4.7	0.0	0.0	15.0	0.0	0.0	-120.1
75	595630.26	4917067.31	273.09	0	N	63	61.9	18.0	0.0	0.0	0.0	64.7	0.1	-4.7	0.0	0.0	17.5	0.0	0.0	2.3
75	595630.26	4917067.31	273.09	0	N	125	70.5	18.0	0.0	0.0	0.0	64.7	0.2	3.4	0.0	0.0	12.1	0.0	0.0	8.2
75	595630.26	4917067.31	273.09	0	N	250	74.2	18.0	0.0	0.0	0.0	64.7	0.5	4.2	0.0	0.0	14.2	0.0	0.0	8.7
75	595630.26	4917067.31	273.09	0	N	500	75.7	18.0	0.0	0.0	0.0	64.7	0.9	-0.9	0.0	0.0	22.2	0.0	0.0	6.9
75	595630.26	4917067.31	273.09	0	N	1000	76.0	18.0	0.0	0.0	0.0	64.7	1.8	-1.9	0.0	0.0	26.1	0.0	0.0	3.4
75	595630.26	4917067.31	273.09	0	N	2000	75.3	18.0	0.0	0.0	0.0	64.7	4.7	-1.9	0.0	0.0	26.9	0.0	0.0	-1.1
75	595630.26	4917067.31	273.09	0	N	4000	73.0	18.0	0.0	0.0	0.0	64.7	15.8	-1.9	0.0	0.0	26.9	0.0	0.0	-14.5
75	595630.26	4917067.31	273.09	0	N	8000	67.3	18.0	0.0	0.0	0.0	64.7	56.4	-1.9	0.0	0.0	26.9	0.0	0.0	-60.8
75	595630.26	4917067.31	273.09	0	E	32	-182.4	18.0	0.0	0.0	0.0	64.7	0.0	-4.7	0.0	0.0	15.0	0.0	0.0	-239.4
75	595630.26	4917067.31	273.09	0	E	63	-57.5	18.0	0.0	0.0	0.0	64.7	0.1	-4.7	0.0	0.0	17.5	0.0	0.0	-117.0
75	595630.26	4917067.31	273.09	0	E	125	-48.8	18.0	0.0	0.0	0.0	64.7	0.2	3.4	0.0	0.0	12.1	0.0	0.0	-111.2
75	595630.26	4917067.31	273.09	0	E	250	-45.2	18.0	0.0	0.0	0.0	64.7	0.5	4.2	0.0	0.0	14.2	0.0	0.0	-110.7
75	595630.26	4917067.31	273.09	0	E	500	-43.6	18.0	0.0	0.0	0.0	64.7	0.9	-0.9	0.0	0.0	22.2	0.0	0.0	-112.5
75	595630.26	4917067.31	273.09	0	E	1000	-43.3	18.0	0.0	0.0	0.0	64.7	1.8	-1.9	0.0	0.0	26.1	0.0	0.0	-116.0
75	595630.26	4917067.31	273.09	0	E	2000	-44.1	18.0	0.0	0.0	0.0	64.7	4.7	-1.9	0.0	0.0	26.9	0.0	0.0	-120.4
75	595630.26	4917067.31	273.09	0	E	4000	-46.4	18.0	0.0	0.0	0.0	64.7	15.8	-1.9	0.0	0.0	26.9	0.0	0.0	-133.9
75	595630.26	4917067.31	273.09	0	E	8000	-52.1	18.0	0.0	0.0	0.0	64.7	56.4	-1.9	0.0	0.0	26.9	0.0	0.0	-180.2
96	595332.41	4917079.18	272.12	0	D	32	-63.1	17.0	0.0	0.0	0.0	67.3	0.0	-5.1	0.0	0.0	14.2	0.0	0.0	-122.5
96	595332.41	4917079.18	272.12	0	D	63	61.9	17.0	0.0	0.0	0.0	67.3	0.1	-5.1	0.0	0.0	16.4	0.0	0.0	0.2
96	595332.41	4917079.18	272.12	0	D	125	70.5	17.0	0.0	0.0	0.0	67.3	0.3	4.7	0.0	0.0	9.1	0.0	0.0	6.1
96	595332.41	4917079.18	272.12	0	D	250	74.2	17.0	0.0	0.0	0.0	67.3	0.7	4.6	0.0	0.0	12.0	0.0	0.0	6.6
96	595332.41	4917079.18	272.12	0	D	500	75.7	17.0	0.0	0.0	0.0	67.3	1.3	-0.5	0.0	0.0	19.9	0.0	0.0	4.7

Line Source, ISO 9613, Name: "", ID: "SHIPP"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
96	595332.41	4917079.18	272.12	0	D	1000	76.0	17.0	0.0	0.0	0.0	67.3	2.4	-1.5	0.0	0.0	23.8	0.0	0.0	1.0
96	595332.41	4917079.18	272.12	0	D	2000	75.3	17.0	0.0	0.0	0.0	67.3	6.3	-1.5	0.0	0.0	26.5	0.0	0.0	-6.4
96	595332.41	4917079.18	272.12	0	D	4000	73.0	17.0	0.0	0.0	0.0	67.3	21.5	-1.5	0.0	0.0	26.5	0.0	0.0	-23.9
96	595332.41	4917079.18	272.12	0	D	8000	67.3	17.0	0.0	0.0	0.0	67.3	76.7	-1.5	0.0	0.0	26.5	0.0	0.0	-84.7
96	595332.41	4917079.18	272.12	0	N	32	-63.1	17.0	0.0	0.0	0.0	67.3	0.0	-5.1	0.0	0.0	14.2	0.0	0.0	-122.5
96	595332.41	4917079.18	272.12	0	N	63	61.9	17.0	0.0	0.0	0.0	67.3	0.1	-5.1	0.0	0.0	16.4	0.0	0.0	0.2
96	595332.41	4917079.18	272.12	0	N	125	70.5	17.0	0.0	0.0	0.0	67.3	0.3	4.7	0.0	0.0	9.1	0.0	0.0	6.1
96	595332.41	4917079.18	272.12	0	N	250	74.2	17.0	0.0	0.0	0.0	67.3	0.7	4.6	0.0	0.0	12.0	0.0	0.0	6.6
96	595332.41	4917079.18	272.12	0	N	500	75.7	17.0	0.0	0.0	0.0	67.3	1.3	-0.5	0.0	0.0	19.9	0.0	0.0	4.7
96	595332.41	4917079.18	272.12	0	N	1000	76.0	17.0	0.0	0.0	0.0	67.3	2.4	-1.5	0.0	0.0	23.8	0.0	0.0	1.0
96	595332.41	4917079.18	272.12	0	N	2000	75.3	17.0	0.0	0.0	0.0	67.3	6.3	-1.5	0.0	0.0	26.5	0.0	0.0	-6.4
96	595332.41	4917079.18	272.12	0	N	4000	73.0	17.0	0.0	0.0	0.0	67.3	21.5	-1.5	0.0	0.0	26.5	0.0	0.0	-23.9
96	595332.41	4917079.18	272.12	0	N	8000	67.3	17.0	0.0	0.0	0.0	67.3	76.7	-1.5	0.0	0.0	26.5	0.0	0.0	-84.7
96	595332.41	4917079.18	272.12	0	E	32	-182.4	17.0	0.0	0.0	0.0	67.3	0.0	-5.1	0.0	0.0	14.2	0.0	0.0	-241.9
96	595332.41	4917079.18	272.12	0	E	63	-57.5	17.0	0.0	0.0	0.0	67.3	0.1	-5.1	0.0	0.0	16.4	0.0	0.0	-119.2
96	595332.41	4917079.18	272.12	0	E	125	-48.8	17.0	0.0	0.0	0.0	67.3	0.3	4.7	0.0	0.0	9.1	0.0	0.0	-113.2
96	595332.41	4917079.18	272.12	0	E	250	-45.2	17.0	0.0	0.0	0.0	67.3	0.7	4.6	0.0	0.0	12.0	0.0	0.0	-112.7
96	595332.41	4917079.18	272.12	0	E	500	-43.6	17.0	0.0	0.0	0.0	67.3	1.3	-0.5	0.0	0.0	19.9	0.0	0.0	-114.6
96	595332.41	4917079.18	272.12	0	E	1000	-43.3	17.0	0.0	0.0	0.0	67.3	2.4	-1.5	0.0	0.0	23.8	0.0	0.0	-118.4
96	595332.41	4917079.18	272.12	0	E	2000	-44.1	17.0	0.0	0.0	0.0	67.3	6.3	-1.5	0.0	0.0	26.5	0.0	0.0	-125.8
96	595332.41	4917079.18	272.12	0	E	4000	-46.4	17.0	0.0	0.0	0.0	67.3	21.5	-1.5	0.0	0.0	26.5	0.0	0.0	-143.2
96	595332.41	4917079.18	272.12	0	E	8000	-52.1	17.0	0.0	0.0	0.0	67.3	76.7	-1.5	0.0	0.0	26.5	0.0	0.0	-204.0
101	595672.71	4917056.62	274.94	0	D	32	-63.1	13.9	0.0	0.0	0.0	64.3	0.0	-4.6	0.0	0.0	14.1	0.0	0.0	-122.9
101	595672.71	4917056.62	274.94	0	D	63	61.9	13.9	0.0	0.0	0.0	64.3	0.1	-4.6	0.0	0.0	16.5	0.0	0.0	-0.3
101	595672.71	4917056.62	274.94	0	D	125	70.5	13.9	0.0	0.0	0.0	64.3	0.2	3.2	0.0	0.0	11.2	0.0	0.0	5.6
101	595672.71	4917056.62	274.94	0	D	250	74.2	13.9	0.0	0.0	0.0	64.3	0.5	4.1	0.0	0.0	13.1	0.0	0.0	6.2
101	595672.71	4917056.62	274.94	0	D	500	75.7	13.9	0.0	0.0	0.0	64.3	0.9	-1.0	0.0	0.0	21.1	0.0	0.0	4.4
101	595672.71	4917056.62	274.94	0	D	1000	76.0	13.9	0.0	0.0	0.0	64.3	1.7	-2.0	0.0	0.0	25.0	0.0	0.0	1.0
101	595672.71	4917056.62	274.94	0	D	2000	75.3	13.9	0.0	0.0	0.0	64.3	4.4	-2.0	0.0	0.0	27.0	0.0	0.0	-4.5
101	595672.71	4917056.62	274.94	0	D	4000	73.0	13.9	0.0	0.0	0.0	64.3	15.1	-2.0	0.0	0.0	27.0	0.0	0.0	-17.4
101	595672.71	4917056.62	274.94	0	D	8000	67.3	13.9	0.0	0.0	0.0	64.3	53.7	-2.0	0.0	0.0	27.0	0.0	0.0	-61.8
101	595672.71	4917056.62	274.94	0	N	32	-63.1	13.9	0.0	0.0	0.0	64.3	0.0	-4.6	0.0	0.0	14.1	0.0	0.0	-122.9
101	595672.71	4917056.62	274.94	0	N	63	61.9	13.9	0.0	0.0	0.0	64.3	0.1	-4.6	0.0	0.0	16.5	0.0	0.0	-0.3
101	595672.71	4917056.62	274.94	0	N	125	70.5	13.9	0.0	0.0	0.0	64.3	0.2	3.2	0.0	0.0	11.2	0.0	0.0	5.6
101	595672.71	4917056.62	274.94	0	N	250	74.2	13.9	0.0	0.0	0.0	64.3	0.5	4.1	0.0	0.0	13.1	0.0	0.0	6.2
101	595672.71	4917056.62	274.94	0	N	500	75.7	13.9	0.0	0.0	0.0	64.3	0.9	-1.0	0.0	0.0	21.1	0.0	0.0	4.4
101	595672.71	4917056.62	274.94	0	N	1000	76.0	13.9	0.0	0.0	0.0	64.3	1.7	-2.0	0.0	0.0	25.0	0.0	0.0	1.0
101	595672.71	4917056.62	274.94	0	N	2000	75.3	13.9	0.0	0.0	0.0	64.3	4.4	-2.0	0.0	0.0	27.0	0.0	0.0	-4.5
101	595672.71	4917056.62	274.94	0	N	4000	73.0	13.9	0.0	0.0	0.0	64.3	15.1	-2.0	0.0	0.0	27.0	0.0	0.0	-17.4
101	595672.71	4917056.62	274.94	0	N	8000	67.3	13.9	0.0	0.0	0.0	64.3	53.7	-2.0	0.0	0.0	27.0	0.0	0.0	-61.8
101	595672.71	4917056.62	274.94	0	E	32	-182.4	13.9	0.0	0.0	0.0	64.3	0.0	-4.6	0.0	0.0	14.1	0.0	0.0	-242.2
101	595672.71	4917056.62	274.94	0	E	63	-57.5	13.9	0.0	0.0	0.0	64.3	0.1	-4.6	0.0	0.0	16.5	0.0	0.0	-119.6
101	595672.71	4917056.62	274.94	0	E	125	-48.8	13.9	0.0	0.0	0.0	64.3	0.2	3.2	0.0	0.0	11.2	0.0	0.0	-113.7
101	595672.71	4917056.62	274.94	0	E	250	-45.2	13.9	0.0	0.0	0.0	64.3	0.5	4.1	0.0	0.0	13.1	0.0	0.0	-113.1
101	595672.71	4917056.62	274.94	0	E	500	-43.6	13.9	0.0	0.0	0.0	64.3	0.9	-1.0	0.0	0.0	21.1	0.0	0.0	-114.9
101	595672.71	4917056.62	274.94	0	E	1000	-43.3	13.9	0.0	0.0	0.0	64.3	1.7	-2.0	0.0	0.0	25.0	0.0	0.0	-118.3
101	595672.71	4917056.62	274.94	0	E	2000	-44.1	13.9	0.0	0.0	0.0	64.3	4.4	-2.0	0.0	0.0	27.0	0.0	0.0	-123.9
101	595672.71	4917056.62	274.94	0	E	4000	-46.4	13.9	0.0	0.0	0.0	64.3	15.1	-2.0	0.0	0.0	27.0	0.0	0.0	-136.8
101	595672.71	4917056.62	274.94	0	E	8000	-52.1	13.9	0.0	0.0	0.0	64.3	53.7	-2.0	0.0	0.0	27.0	0.0	0.0	-181.1
103	595692.87	4917049.17	277.47	0	D	32	-63.1	12.7	0.0	0.0	0.0	64.0	0.0	-4.6	0.0	0.0	13.4	0.0	0.0	-123.1
103	595692.87	4917049.17	277.47	0	D	63	61.9	12.7	0.0	0.0	0.0	64.0	0.1	-4.6	0.0	0.0	15.5	0.0	0.0	-0.4
103	595692.87	4917049.17	277.47	0	D	125	70.5	12.7	0.0	0.0	0.0	64.0	0.2	2.5	0.0	0.0	10.9	0.0	0.0	5.7
103	595692.87	4917049.17	277.47	0	D	250	74.2	12.7	0.0	0.0	0.0	64.0	0.5	3.1	0.0	0.0	13.0	0.0	0.0	6.3
103	595692.87	4917049.17	277.47	0	D	500	75.7	12.7	0.0	0.0	0.0	64.0	0.9	-1.4	0.0	0.0	20.3	0.0	0.0	4.6
103	595692.87	4917049.17	277.47	0	D	1000	76.0	12.7	0.0	0.0	0.0	64.0	1.6	-2.2	0.0	0.0	24.1	0.0	0.0	1.2
103	595692.87	4917049.17	277.47	0	D	2000	75.3	12.7	0.0	0.0	0.0	64.0	4.3	-2.2	0.0	0.0	27.1	0.0	0.0	-5.2
103	595692.87	4917049.17	277.47	0	D	4000	73.0	12.7	0.0	0.0	0.0	64.0	14.7	-2.2	0.0	0.0	27.2	0.0	0.0	-18.0
103	595692.87	4917049.17	277.47	0	D	8000	67.3	12.7	0.0	0.0	0.0	64.0	52.3	-2.2	0.0	0.0	27.2	0.0	0.0	-61.3
103	595692.87	4917049.17	277.47	0	N	32	-63.1	12.7	0.0	0.0	0.0	64.0	0.0	-4.6	0.0	0.0	13.4	0.0	0.0	-123.1
103	595692.87	4917049.17	277.47	0	N	63	61.9	12.7	0.0	0.0	0.0	64.0	0.1	-4.6	0.0	0.0	15.5	0.0	0.0	-0.4
103	595692.87	4917049.17	277.47	0	N	125	70.5	12.7	0.0	0.0	0.0	64.0	0.2	2.5	0.0	0.0	10.9	0.0	0.0	5.7
103	595692.87	4917049.17	277.47	0	N	250	74.2	12.7	0.0	0.0	0.0	64.0	0.5	3.1	0.0	0.0	13.0	0.0	0.0	6.3
103	595692.87	4917049.17	277.47	0	N	500	75.7	12.7	0.0	0.0	0.0	64.0	0.9	-1.4	0.0	0.0	20.3	0.0	0.0	4.6

Line Source, ISO 9613, Name: "", ID: "SHIPP"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
103	595692.87	4917049.17	277.47	0	N	1000	76.0	12.7	0.0	0.0	0.0	64.0	1.6	-2.2	0.0	0.0	24.1	0.0	0.0	1.2
103	595692.87	4917049.17	277.47	0	N	2000	75.3	12.7	0.0	0.0	0.0	64.0	4.3	-2.2	0.0	0.0	27.1	0.0	0.0	-5.2
103	595692.87	4917049.17	277.47	0	N	4000	73.0	12.7	0.0	0.0	0.0	64.0	14.7	-2.2	0.0	0.0	27.2	0.0	0.0	-18.0
103	595692.87	4917049.17	277.47	0	N	8000	67.3	12.7	0.0	0.0	0.0	64.0	52.3	-2.2	0.0	0.0	27.2	0.0	0.0	-61.3
103	595692.87	4917049.17	277.47	0	E	32	-182.4	12.7	0.0	0.0	0.0	64.0	0.0	-4.6	0.0	0.0	13.4	0.0	0.0	-242.5
103	595692.87	4917049.17	277.47	0	E	63	-57.5	12.7	0.0	0.0	0.0	64.0	0.1	-4.6	0.0	0.0	15.5	0.0	0.0	-119.7
103	595692.87	4917049.17	277.47	0	E	125	-48.8	12.7	0.0	0.0	0.0	64.0	0.2	2.5	0.0	0.0	10.9	0.0	0.0	-113.7
103	595692.87	4917049.17	277.47	0	E	250	-45.2	12.7	0.0	0.0	0.0	64.0	0.5	3.1	0.0	0.0	13.0	0.0	0.0	-113.0
103	595692.87	4917049.17	277.47	0	E	500	-43.6	12.7	0.0	0.0	0.0	64.0	0.9	-1.4	0.0	0.0	20.3	0.0	0.0	-114.7
103	595692.87	4917049.17	277.47	0	E	1000	-43.3	12.7	0.0	0.0	0.0	64.0	1.6	-2.2	0.0	0.0	24.1	0.0	0.0	-118.1
103	595692.87	4917049.17	277.47	0	E	2000	-44.1	12.7	0.0	0.0	0.0	64.0	4.3	-2.2	0.0	0.0	27.1	0.0	0.0	-124.6
103	595692.87	4917049.17	277.47	0	E	4000	-46.4	12.7	0.0	0.0	0.0	64.0	14.7	-2.2	0.0	0.0	27.2	0.0	0.0	-137.4
103	595692.87	4917049.17	277.47	0	E	8000	-52.1	12.7	0.0	0.0	0.0	64.0	52.3	-2.2	0.0	0.0	27.2	0.0	0.0	-180.7
107	595303.29	4917080.77	270.39	0	D	32	-63.1	9.4	0.0	0.0	0.0	67.6	0.0	-5.1	0.0	0.0	14.0	0.0	0.0	-130.3
107	595303.29	4917080.77	270.39	0	D	63	61.9	9.4	0.0	0.0	0.0	67.6	0.1	-5.1	0.0	0.0	16.2	0.0	0.0	-7.5
107	595303.29	4917080.77	270.39	0	D	125	70.5	9.4	0.0	0.0	0.0	67.6	0.3	4.8	0.0	0.0	8.8	0.0	0.0	-1.5
107	595303.29	4917080.77	270.39	0	D	250	74.2	9.4	0.0	0.0	0.0	67.6	0.7	4.6	0.0	0.0	11.7	0.0	0.0	-1.0
107	595303.29	4917080.77	270.39	0	D	500	75.7	9.4	0.0	0.0	0.0	67.6	1.3	-0.5	0.0	0.0	19.7	0.0	0.0	-3.0
107	595303.29	4917080.77	270.39	0	D	1000	76.0	9.4	0.0	0.0	0.0	67.6	2.5	-1.5	0.0	0.0	23.5	0.0	0.0	-6.7
107	595303.29	4917080.77	270.39	0	D	2000	75.3	9.4	0.0	0.0	0.0	67.6	6.6	-1.5	0.0	0.0	26.5	0.0	0.0	-14.5
107	595303.29	4917080.77	270.39	0	D	4000	73.0	9.4	0.0	0.0	0.0	67.6	22.2	-1.5	0.0	0.0	26.5	0.0	0.0	-32.5
107	595303.29	4917080.77	270.39	0	D	8000	67.3	9.4	0.0	0.0	0.0	67.6	79.2	-1.5	0.0	0.0	26.5	0.0	0.0	-95.1
107	595303.29	4917080.77	270.39	0	N	32	-63.1	9.4	0.0	0.0	0.0	67.6	0.0	-5.1	0.0	0.0	14.0	0.0	0.0	-130.3
107	595303.29	4917080.77	270.39	0	N	63	61.9	9.4	0.0	0.0	0.0	67.6	0.1	-5.1	0.0	0.0	16.2	0.0	0.0	-7.5
107	595303.29	4917080.77	270.39	0	N	125	70.5	9.4	0.0	0.0	0.0	67.6	0.3	4.8	0.0	0.0	8.8	0.0	0.0	-1.5
107	595303.29	4917080.77	270.39	0	N	250	74.2	9.4	0.0	0.0	0.0	67.6	0.7	4.6	0.0	0.0	11.7	0.0	0.0	-1.0
107	595303.29	4917080.77	270.39	0	N	500	75.7	9.4	0.0	0.0	0.0	67.6	1.3	-0.5	0.0	0.0	19.7	0.0	0.0	-3.0
107	595303.29	4917080.77	270.39	0	N	1000	76.0	9.4	0.0	0.0	0.0	67.6	2.5	-1.5	0.0	0.0	23.5	0.0	0.0	-6.7
107	595303.29	4917080.77	270.39	0	N	2000	75.3	9.4	0.0	0.0	0.0	67.6	6.6	-1.5	0.0	0.0	26.5	0.0	0.0	-14.5
107	595303.29	4917080.77	270.39	0	N	4000	73.0	9.4	0.0	0.0	0.0	67.6	22.2	-1.5	0.0	0.0	26.5	0.0	0.0	-32.5
107	595303.29	4917080.77	270.39	0	N	8000	67.3	9.4	0.0	0.0	0.0	67.6	79.2	-1.5	0.0	0.0	26.5	0.0	0.0	-95.1
107	595303.29	4917080.77	270.39	0	E	32	-182.4	9.4	0.0	0.0	0.0	67.6	0.0	-5.1	0.0	0.0	14.0	0.0	0.0	-249.6
107	595303.29	4917080.77	270.39	0	E	63	-57.5	9.4	0.0	0.0	0.0	67.6	0.1	-5.1	0.0	0.0	16.2	0.0	0.0	-126.9
107	595303.29	4917080.77	270.39	0	E	125	-48.8	9.4	0.0	0.0	0.0	67.6	0.3	4.8	0.0	0.0	8.8	0.0	0.0	-120.9
107	595303.29	4917080.77	270.39	0	E	250	-45.2	9.4	0.0	0.0	0.0	67.6	0.7	4.6	0.0	0.0	11.7	0.0	0.0	-120.4
107	595303.29	4917080.77	270.39	0	E	500	-43.6	9.4	0.0	0.0	0.0	67.6	1.3	-0.5	0.0	0.0	19.7	0.0	0.0	-122.3
107	595303.29	4917080.77	270.39	0	E	1000	-43.3	9.4	0.0	0.0	0.0	67.6	2.5	-1.5	0.0	0.0	23.5	0.0	0.0	-126.1
107	595303.29	4917080.77	270.39	0	E	2000	-44.1	9.4	0.0	0.0	0.0	67.6	6.6	-1.5	0.0	0.0	26.5	0.0	0.0	-133.9
107	595303.29	4917080.77	270.39	0	E	4000	-46.4	9.4	0.0	0.0	0.0	67.6	22.2	-1.5	0.0	0.0	26.5	0.0	0.0	-151.8
107	595303.29	4917080.77	270.39	0	E	8000	-52.1	9.4	0.0	0.0	0.0	67.6	79.2	-1.5	0.0	0.0	26.5	0.0	0.0	-214.5

Line Source, ISO 9613, Name: "", ID: "WEST"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
63	595623.43	4916709.29	287.68	0	D	32	-62.0	10.4	0.0	0.0	0.0	56.8	0.0	-3.0	0.0	0.0	8.4	0.0	0.0	-113.7
63	595623.43	4916709.29	287.68	0	D	63	66.2	10.4	0.0	0.0	0.0	56.8	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	13.9
63	595623.43	4916709.29	287.68	0	D	125	74.3	10.4	0.0	0.0	0.0	56.8	0.1	0.5	0.0	0.0	6.4	0.0	0.0	21.0
63	595623.43	4916709.29	287.68	0	D	250	83.8	10.4	0.0	0.0	0.0	56.8	0.2	-0.8	0.0	0.0	9.0	0.0	0.0	29.0
63	595623.43	4916709.29	287.68	0	D	500	86.2	10.4	0.0	0.0	0.0	56.8	0.4	-1.8	0.0	0.0	12.0	0.0	0.0	29.3
63	595623.43	4916709.29	287.68	0	D	1000	82.4	10.4	0.0	0.0	0.0	56.8	0.7	-1.8	0.0	0.0	14.3	0.0	0.0	22.9
63	595623.43	4916709.29	287.68	0	D	2000	79.6	10.4	0.0	0.0	0.0	56.8	1.9	-1.8	0.0	0.0	16.9	0.0	0.0	16.3
63	595623.43	4916709.29	287.68	0	D	4000	74.4	10.4	0.0	0.0	0.0	56.8	6.4	-1.8	0.0	0.0	19.7	0.0	0.0	3.8
63	595623.43	4916709.29	287.68	0	D	8000	68.3	10.4	0.0	0.0	0.0	56.8	22.9	-1.8	0.0	0.0	21.8	0.0	0.0	-20.9
63	595623.43	4916709.29	287.68	0	N	32	-62.0	10.4	-188.0	0.0	0.0	56.8	0.0	-3.0	0.0	0.0	8.4	0.0	0.0	-301.7
63	595623.43	4916709.29	287.68	0	N	63	66.2	10.4	-188.0	0.0	0.0	56.8	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	-174.1
63	595623.43	4916709.29	287.68	0	N	125	74.3	10.4	-188.0	0.0	0.0	56.8	0.1	0.5	0.0	0.0	6.4	0.0	0.0	-167.0
63	595623.43	4916709.29	287.68	0	N	250	83.8	10.4	-188.0	0.0	0.0	56.8	0.2	-0.8	0.0	0.0	9.0	0.0	0.0	-159.0
63	595623.43	4916709.29	287.68	0	N	500	86.2	10.4	-188.0	0.0	0.0	56.8	0.4	-1.8	0.0	0.0	12.0	0.0	0.0	-158.7
63	595623.43	4916709.29	287.68	0	N	1000	82.4	10.4	-188.0	0.0	0.0	56.8	0.7	-1.8	0.0	0.0	14.3	0.0	0.0	-165.1
63	595623.43	4916709.29	287.68	0	N	2000	79.6	10.4	-188.0	0.0	0.0	56.8	1.9	-1.8	0.0	0.0	16.9	0.0	0.0	-171.7
63	595623.43	4916709.29	287.68	0	N	4000	74.4	10.4	-188.0	0.0	0.0	56.8	6.4	-1.8	0.0	0.0	19.7	0.0	0.0	-184.2
63	595623.43	4916709.29	287.68	0	N	8000	68.3	10.4	-188.0	0.0	0.0	56.8	22.9	-1.8	0.0	0.0	21.8	0.0	0.0	-208.9
63	595623.43	4916709.29	287.68	0	E	32	-62.0	10.4	-188.0	0.0	0.0	56.8	0.0	-3.0	0.0	0.0	8.4	0.0	0.0	-301.7

Line Source, ISO 9613, Name: "", ID: "WEST"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
63	595623.43	4916709.29	287.68	0	E	63	66.2	10.4	-188.0	0.0	0.0	56.8	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	-174.1
63	595623.43	4916709.29	287.68	0	E	125	74.3	10.4	-188.0	0.0	0.0	56.8	0.1	0.5	0.0	0.0	6.4	0.0	0.0	-167.0
63	595623.43	4916709.29	287.68	0	E	250	83.8	10.4	-188.0	0.0	0.0	56.8	0.2	-0.8	0.0	0.0	9.0	0.0	0.0	-159.0
63	595623.43	4916709.29	287.68	0	E	500	86.2	10.4	-188.0	0.0	0.0	56.8	0.4	-1.8	0.0	0.0	12.0	0.0	0.0	-158.7
63	595623.43	4916709.29	287.68	0	E	1000	82.4	10.4	-188.0	0.0	0.0	56.8	0.7	-1.8	0.0	0.0	14.3	0.0	0.0	-165.1
63	595623.43	4916709.29	287.68	0	E	2000	79.6	10.4	-188.0	0.0	0.0	56.8	1.9	-1.8	0.0	0.0	16.9	0.0	0.0	-171.7
63	595623.43	4916709.29	287.68	0	E	4000	74.4	10.4	-188.0	0.0	0.0	56.8	6.4	-1.8	0.0	0.0	19.7	0.0	0.0	-184.2
63	595623.43	4916709.29	287.68	0	E	8000	68.3	10.4	-188.0	0.0	0.0	56.8	22.9	-1.8	0.0	0.0	21.8	0.0	0.0	-208.9
67	595639.82	4916748.37	288.06	0	D	32	-62.0	18.7	0.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.2	0.0	0.0	-105.7
67	595639.82	4916748.37	288.06	0	D	63	66.2	18.7	0.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.6	0.0	0.0	22.0
67	595639.82	4916748.37	288.06	0	D	125	74.3	18.7	0.0	0.0	0.0	57.2	0.1	0.2	0.0	0.0	6.1	0.0	0.0	29.4
67	595639.82	4916748.37	288.06	0	D	250	83.8	18.7	0.0	0.0	0.0	57.2	0.2	-0.9	0.0	0.0	8.4	0.0	0.0	37.6
67	595639.82	4916748.37	288.06	0	D	500	86.2	18.7	0.0	0.0	0.0	57.2	0.4	-1.9	0.0	0.0	11.0	0.0	0.0	38.2
67	595639.82	4916748.37	288.06	0	D	1000	82.4	18.7	0.0	0.0	0.0	57.2	0.7	-1.9	0.0	0.0	13.2	0.0	0.0	31.9
67	595639.82	4916748.37	288.06	0	D	2000	79.6	18.7	0.0	0.0	0.0	57.2	2.0	-1.9	0.0	0.0	15.6	0.0	0.0	25.4
67	595639.82	4916748.37	288.06	0	D	4000	74.4	18.7	0.0	0.0	0.0	57.2	6.7	-1.9	0.0	0.0	18.4	0.0	0.0	12.7
67	595639.82	4916748.37	288.06	0	D	8000	68.3	18.7	0.0	0.0	0.0	57.2	24.0	-1.9	0.0	0.0	21.2	0.0	0.0	-13.5
67	595639.82	4916748.37	288.06	0	N	32	-62.0	18.7	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.2	0.0	0.0	-293.7
67	595639.82	4916748.37	288.06	0	N	63	66.2	18.7	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.6	0.0	0.0	-166.0
67	595639.82	4916748.37	288.06	0	N	125	74.3	18.7	-188.0	0.0	0.0	57.2	0.1	0.2	0.0	0.0	6.1	0.0	0.0	-158.6
67	595639.82	4916748.37	288.06	0	N	250	83.8	18.7	-188.0	0.0	0.0	57.2	0.2	-0.9	0.0	0.0	8.4	0.0	0.0	-150.4
67	595639.82	4916748.37	288.06	0	N	500	86.2	18.7	-188.0	0.0	0.0	57.2	0.4	-1.9	0.0	0.0	11.0	0.0	0.0	-149.8
67	595639.82	4916748.37	288.06	0	N	1000	82.4	18.7	-188.0	0.0	0.0	57.2	0.7	-1.9	0.0	0.0	13.2	0.0	0.0	-156.1
67	595639.82	4916748.37	288.06	0	N	2000	79.6	18.7	-188.0	0.0	0.0	57.2	2.0	-1.9	0.0	0.0	15.6	0.0	0.0	-162.6
67	595639.82	4916748.37	288.06	0	N	4000	74.4	18.7	-188.0	0.0	0.0	57.2	6.7	-1.9	0.0	0.0	18.4	0.0	0.0	-175.3
67	595639.82	4916748.37	288.06	0	N	8000	68.3	18.7	-188.0	0.0	0.0	57.2	24.0	-1.9	0.0	0.0	21.2	0.0	0.0	-201.5
67	595639.82	4916748.37	288.06	0	E	32	-62.0	18.7	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.2	0.0	0.0	-293.7
67	595639.82	4916748.37	288.06	0	E	63	66.2	18.7	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.6	0.0	0.0	-166.0
67	595639.82	4916748.37	288.06	0	E	125	74.3	18.7	-188.0	0.0	0.0	57.2	0.1	0.2	0.0	0.0	6.1	0.0	0.0	-158.6
67	595639.82	4916748.37	288.06	0	E	250	83.8	18.7	-188.0	0.0	0.0	57.2	0.2	-0.9	0.0	0.0	8.4	0.0	0.0	-150.4
67	595639.82	4916748.37	288.06	0	E	500	86.2	18.7	-188.0	0.0	0.0	57.2	0.4	-1.9	0.0	0.0	11.0	0.0	0.0	-149.8
67	595639.82	4916748.37	288.06	0	E	1000	82.4	18.7	-188.0	0.0	0.0	57.2	0.7	-1.9	0.0	0.0	13.2	0.0	0.0	-156.1
67	595639.82	4916748.37	288.06	0	E	2000	79.6	18.7	-188.0	0.0	0.0	57.2	2.0	-1.9	0.0	0.0	15.6	0.0	0.0	-162.6
67	595639.82	4916748.37	288.06	0	E	4000	74.4	18.7	-188.0	0.0	0.0	57.2	6.7	-1.9	0.0	0.0	18.4	0.0	0.0	-175.3
67	595639.82	4916748.37	288.06	0	E	8000	68.3	18.7	-188.0	0.0	0.0	57.2	24.0	-1.9	0.0	0.0	21.2	0.0	0.0	-201.5
78	595595.29	4916661.93	286.44	0	D	32	-62.0	5.3	0.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.5	0.0	0.0	-119.4
78	595595.29	4916661.93	286.44	0	D	63	66.2	5.3	0.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	9.1	0.0	0.0	8.2
78	595595.29	4916661.93	286.44	0	D	125	74.3	5.3	0.0	0.0	0.0	57.2	0.1	1.3	0.0	0.0	5.9	0.0	0.0	15.2
78	595595.29	4916661.93	286.44	0	D	250	83.8	5.3	0.0	0.0	0.0	57.2	0.2	-0.3	0.0	0.0	8.9	0.0	0.0	23.1
78	595595.29	4916661.93	286.44	0	D	500	86.2	5.3	0.0	0.0	0.0	57.2	0.4	-1.6	0.0	0.0	12.2	0.0	0.0	23.3
78	595595.29	4916661.93	286.44	0	D	1000	82.4	5.3	0.0	0.0	0.0	57.2	0.7	-1.6	0.0	0.0	14.6	0.0	0.0	16.7
78	595595.29	4916661.93	286.44	0	D	2000	79.6	5.3	0.0	0.0	0.0	57.2	2.0	-1.6	0.0	0.0	17.3	0.0	0.0	10.0
78	595595.29	4916661.93	286.44	0	D	4000	74.4	5.3	0.0	0.0	0.0	57.2	6.7	-1.6	0.0	0.0	20.1	0.0	0.0	-2.7
78	595595.29	4916661.93	286.44	0	D	8000	68.3	5.3	0.0	0.0	0.0	57.2	24.0	-1.6	0.0	0.0	21.6	0.0	0.0	-27.5
78	595595.29	4916661.93	286.44	0	N	32	-62.0	5.3	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.5	0.0	0.0	-307.4
78	595595.29	4916661.93	286.44	0	N	63	66.2	5.3	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	9.1	0.0	0.0	-179.8
78	595595.29	4916661.93	286.44	0	N	125	74.3	5.3	-188.0	0.0	0.0	57.2	0.1	1.3	0.0	0.0	5.9	0.0	0.0	-172.8
78	595595.29	4916661.93	286.44	0	N	250	83.8	5.3	-188.0	0.0	0.0	57.2	0.2	-0.3	0.0	0.0	8.9	0.0	0.0	-164.9
78	595595.29	4916661.93	286.44	0	N	500	86.2	5.3	-188.0	0.0	0.0	57.2	0.4	-1.6	0.0	0.0	12.2	0.0	0.0	-164.7
78	595595.29	4916661.93	286.44	0	N	1000	82.4	5.3	-188.0	0.0	0.0	57.2	0.7	-1.6	0.0	0.0	14.6	0.0	0.0	-171.3
78	595595.29	4916661.93	286.44	0	N	2000	79.6	5.3	-188.0	0.0	0.0	57.2	2.0	-1.6	0.0	0.0	17.3	0.0	0.0	-178.0
78	595595.29	4916661.93	286.44	0	N	4000	74.4	5.3	-188.0	0.0	0.0	57.2	6.7	-1.6	0.0	0.0	20.1	0.0	0.0	-190.7
78	595595.29	4916661.93	286.44	0	N	8000	68.3	5.3	-188.0	0.0	0.0	57.2	24.0	-1.6	0.0	0.0	21.6	0.0	0.0	-215.5
78	595595.29	4916661.93	286.44	0	E	32	-62.0	5.3	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	8.5	0.0	0.0	-307.4
78	595595.29	4916661.93	286.44	0	E	63	66.2	5.3	-188.0	0.0	0.0	57.2	0.0	-3.0	0.0	0.0	9.1	0.0	0.0	-179.8
78	595595.29	4916661.93	286.44	0	E	125	74.3	5.3	-188.0	0.0	0.0	57.2	0.1	1.3	0.0	0.0	5.9	0.0	0.0	-172.8
78	595595.29	4916661.93	286.44	0	E	250	83.8	5.3	-188.0	0.0	0.0	57.2	0.2	-0.3	0.0	0.0	8.9	0.0	0.0	-164.9
78	595595.29	4916661.93	286.44	0	E	500	86.2	5.3	-188.0	0.0	0.0	57.2	0.4	-1.6	0.0	0.0	12.2	0.0	0.0	-164.7
78	595595.29	4916661.93	286.44	0	E	1000	82.4	5.3	-188.0	0.0	0.0	57.2	0.7	-1.6	0.0	0.0	14.6	0.0	0.0	-171.3
78	595595.29	4916661.93	286.44	0	E	2000	79.6	5.3	-188.0	0.0	0.0	57.2	2.0	-1.6	0.0	0.0	17.3	0.0	0.0	-178.0
78	595595.29	4916661.93	286.44	0	E	4000	74.4	5.3	-188.0	0.0	0.0	57.2	6.7	-1.6	0.0	0.0	20.1	0.0	0.0	-190.7
78	595595.29	4916661.93	286.44	0	E	8000	68.3	5.3	-188.0	0.0	0.0	57.2	24.0	-1.6	0.0	0.0	21.6	0.0	0.0	-215.5
84	595608.73	4916683.78	287.05	0	D	32	-62.0	16.8	0.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	8.4	0.0	0.0	-107.6

Line Source, ISO 9613, Name: "", ID: "WEST"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
84	595608.73	4916683.78	287.05	0	D	63	66.2	16.8	0.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	9.0	0.0	0.0	20.0
84	595608.73	4916683.78	287.05	0	D	125	74.3	16.8	0.0	0.0	0.0	57.0	0.1	0.8	0.0	0.0	6.2	0.0	0.0	27.1
84	595608.73	4916683.78	287.05	0	D	250	83.8	16.8	0.0	0.0	0.0	57.0	0.2	-0.5	0.0	0.0	9.0	0.0	0.0	35.0
84	595608.73	4916683.78	287.05	0	D	500	86.2	16.8	0.0	0.0	0.0	57.0	0.4	-1.7	0.0	0.0	12.1	0.0	0.0	35.3
84	595608.73	4916683.78	287.05	0	D	1000	82.4	16.8	0.0	0.0	0.0	57.0	0.7	-1.7	0.0	0.0	14.5	0.0	0.0	28.8
84	595608.73	4916683.78	287.05	0	D	2000	79.6	16.8	0.0	0.0	0.0	57.0	1.9	-1.7	0.0	0.0	17.2	0.0	0.0	22.1
84	595608.73	4916683.78	287.05	0	D	4000	74.4	16.8	0.0	0.0	0.0	57.0	6.5	-1.7	0.0	0.0	20.0	0.0	0.0	9.5
84	595608.73	4916683.78	287.05	0	D	8000	68.3	16.8	0.0	0.0	0.0	57.0	23.2	-1.7	0.0	0.0	21.7	0.0	0.0	-15.0
84	595608.73	4916683.78	287.05	0	N	32	-62.0	16.8	-188.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	8.4	0.0	0.0	-295.6
84	595608.73	4916683.78	287.05	0	N	63	66.2	16.8	-188.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	9.0	0.0	0.0	-168.0
84	595608.73	4916683.78	287.05	0	N	125	74.3	16.8	-188.0	0.0	0.0	57.0	0.1	0.8	0.0	0.0	6.2	0.0	0.0	-160.9
84	595608.73	4916683.78	287.05	0	N	250	83.8	16.8	-188.0	0.0	0.0	57.0	0.2	-0.5	0.0	0.0	9.0	0.0	0.0	-153.0
84	595608.73	4916683.78	287.05	0	N	500	86.2	16.8	-188.0	0.0	0.0	57.0	0.4	-1.7	0.0	0.0	12.1	0.0	0.0	-152.7
84	595608.73	4916683.78	287.05	0	N	1000	82.4	16.8	-188.0	0.0	0.0	57.0	0.7	-1.7	0.0	0.0	14.5	0.0	0.0	-159.2
84	595608.73	4916683.78	287.05	0	N	2000	79.6	16.8	-188.0	0.0	0.0	57.0	1.9	-1.7	0.0	0.0	17.2	0.0	0.0	-165.9
84	595608.73	4916683.78	287.05	0	N	4000	74.4	16.8	-188.0	0.0	0.0	57.0	6.5	-1.7	0.0	0.0	20.0	0.0	0.0	-178.5
84	595608.73	4916683.78	287.05	0	N	8000	68.3	16.8	-188.0	0.0	0.0	57.0	23.2	-1.7	0.0	0.0	21.7	0.0	0.0	-203.0
84	595608.73	4916683.78	287.05	0	E	32	-62.0	16.8	-188.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	8.4	0.0	0.0	-295.6
84	595608.73	4916683.78	287.05	0	E	63	66.2	16.8	-188.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	9.0	0.0	0.0	-168.0
84	595608.73	4916683.78	287.05	0	E	125	74.3	16.8	-188.0	0.0	0.0	57.0	0.1	0.8	0.0	0.0	6.2	0.0	0.0	-160.9
84	595608.73	4916683.78	287.05	0	E	250	83.8	16.8	-188.0	0.0	0.0	57.0	0.2	-0.5	0.0	0.0	9.0	0.0	0.0	-153.0
84	595608.73	4916683.78	287.05	0	E	500	86.2	16.8	-188.0	0.0	0.0	57.0	0.4	-1.7	0.0	0.0	12.1	0.0	0.0	-152.7
84	595608.73	4916683.78	287.05	0	E	1000	82.4	16.8	-188.0	0.0	0.0	57.0	0.7	-1.7	0.0	0.0	14.5	0.0	0.0	-159.2
84	595608.73	4916683.78	287.05	0	E	2000	79.6	16.8	-188.0	0.0	0.0	57.0	1.9	-1.7	0.0	0.0	17.2	0.0	0.0	-165.9
84	595608.73	4916683.78	287.05	0	E	4000	74.4	16.8	-188.0	0.0	0.0	57.0	6.5	-1.7	0.0	0.0	20.0	0.0	0.0	-178.5
84	595608.73	4916683.78	287.05	0	E	8000	68.3	16.8	-188.0	0.0	0.0	57.0	23.2	-1.7	0.0	0.0	21.7	0.0	0.0	-203.0
88	595684.32	4916860.49	290.14	0	D	32	-62.0	18.3	0.0	0.0	0.0	59.6	0.0	-3.7	0.0	0.0	8.6	0.0	0.0	-108.2
88	595684.32	4916860.49	290.14	0	D	63	66.2	18.3	0.0	0.0	0.0	59.6	0.0	-3.7	0.0	0.0	8.7	0.0	0.0	19.9
88	595684.32	4916860.49	290.14	0	D	125	74.3	18.3	0.0	0.0	0.0	59.6	0.1	-0.5	0.0	0.0	5.7	0.0	0.0	27.7
88	595684.32	4916860.49	290.14	0	D	250	83.8	18.3	0.0	0.0	0.0	59.6	0.3	-1.7	0.0	0.0	7.3	0.0	0.0	36.7
88	595684.32	4916860.49	290.14	0	D	500	86.2	18.3	0.0	0.0	0.0	59.6	0.5	-2.7	0.0	0.0	8.9	0.0	0.0	38.2
88	595684.32	4916860.49	290.14	0	D	1000	82.4	18.3	0.0	0.0	0.0	59.6	1.0	-2.7	0.0	0.0	10.0	0.0	0.0	32.8
88	595684.32	4916860.49	290.14	0	D	2000	79.6	18.3	0.0	0.0	0.0	59.6	2.6	-2.7	0.0	0.0	11.6	0.0	0.0	26.8
88	595684.32	4916860.49	290.14	0	D	4000	74.4	18.3	0.0	0.0	0.0	59.6	8.8	-2.7	0.0	0.0	13.6	0.0	0.0	13.3
88	595684.32	4916860.49	290.14	0	D	8000	68.3	18.3	0.0	0.0	0.0	59.6	31.6	-2.7	0.0	0.0	16.1	0.0	0.0	-18.0
88	595684.32	4916860.49	290.14	0	N	32	-62.0	18.3	-188.0	0.0	0.0	59.6	0.0	-3.7	0.0	0.0	8.6	0.0	0.0	-296.2
88	595684.32	4916860.49	290.14	0	N	63	66.2	18.3	-188.0	0.0	0.0	59.6	0.0	-3.7	0.0	0.0	8.7	0.0	0.0	-168.1
88	595684.32	4916860.49	290.14	0	N	125	74.3	18.3	-188.0	0.0	0.0	59.6	0.1	-0.5	0.0	0.0	5.7	0.0	0.0	-160.3
88	595684.32	4916860.49	290.14	0	N	250	83.8	18.3	-188.0	0.0	0.0	59.6	0.3	-1.7	0.0	0.0	7.3	0.0	0.0	-151.3
88	595684.32	4916860.49	290.14	0	N	500	86.2	18.3	-188.0	0.0	0.0	59.6	0.5	-2.7	0.0	0.0	8.9	0.0	0.0	-149.8
88	595684.32	4916860.49	290.14	0	N	1000	82.4	18.3	-188.0	0.0	0.0	59.6	1.0	-2.7	0.0	0.0	10.0	0.0	0.0	-155.2
88	595684.32	4916860.49	290.14	0	N	2000	79.6	18.3	-188.0	0.0	0.0	59.6	2.6	-2.7	0.0	0.0	11.6	0.0	0.0	-161.2
88	595684.32	4916860.49	290.14	0	N	4000	74.4	18.3	-188.0	0.0	0.0	59.6	8.8	-2.7	0.0	0.0	13.6	0.0	0.0	-174.7
88	595684.32	4916860.49	290.14	0	N	8000	68.3	18.3	-188.0	0.0	0.0	59.6	31.6	-2.7	0.0	0.0	16.1	0.0	0.0	-206.0
88	595684.32	4916860.49	290.14	0	E	32	-62.0	18.3	-188.0	0.0	0.0	59.6	0.0	-3.7	0.0	0.0	8.6	0.0	0.0	-296.2
88	595684.32	4916860.49	290.14	0	E	63	66.2	18.3	-188.0	0.0	0.0	59.6	0.0	-3.7	0.0	0.0	8.7	0.0	0.0	-168.1
88	595684.32	4916860.49	290.14	0	E	125	74.3	18.3	-188.0	0.0	0.0	59.6	0.1	-0.5	0.0	0.0	5.7	0.0	0.0	-160.3
88	595684.32	4916860.49	290.14	0	E	250	83.8	18.3	-188.0	0.0	0.0	59.6	0.3	-1.7	0.0	0.0	7.3	0.0	0.0	-151.3
88	595684.32	4916860.49	290.14	0	E	500	86.2	18.3	-188.0	0.0	0.0	59.6	0.5	-2.7	0.0	0.0	8.9	0.0	0.0	-149.8
88	595684.32	4916860.49	290.14	0	E	1000	82.4	18.3	-188.0	0.0	0.0	59.6	1.0	-2.7	0.0	0.0	10.0	0.0	0.0	-155.2
88	595684.32	4916860.49	290.14	0	E	2000	79.6	18.3	-188.0	0.0	0.0	59.6	2.6	-2.7	0.0	0.0	11.6	0.0	0.0	-161.2
88	595684.32	4916860.49	290.14	0	E	4000	74.4	18.3	-188.0	0.0	0.0	59.6	8.8	-2.7	0.0	0.0	13.6	0.0	0.0	-174.7
88	595684.32	4916860.49	290.14	0	E	8000	68.3	18.3	-188.0	0.0	0.0	59.6	31.6	-2.7	0.0	0.0	16.1	0.0	0.0	-206.0
91	595663.73	4916805.45	288.51	0	D	32	-62.0	17.0	0.0	0.0	0.0	58.3	0.0	-3.3	0.0	0.0	8.4	0.0	0.0	-108.3
91	595663.73	4916805.45	288.51	0	D	63	66.2	17.0	0.0	0.0	0.0	58.3	0.0	-3.3	0.0	0.0	8.6	0.0	0.0	19.6
91	595663.73	4916805.45	288.51	0	D	125	74.3	17.0	0.0	0.0	0.0	58.3	0.1	-0.2	0.0	0.0	6.0	0.0	0.0	27.2
91	595663.73	4916805.45	288.51	0	D	250	83.8	17.0	0.0	0.0	0.0	58.3	0.2	-1.3	0.0	0.0	7.9	0.0	0.0	35.8
91	595663.73	4916805.45	288.51	0	D	500	86.2	17.0	0.0	0.0	0.0	58.3	0.4	-2.3	0.0	0.0	10.1	0.0	0.0	36.7
91	595663.73	4916805.45	288.51	0	D	1000	82.4	17.0	0.0	0.0	0.0	58.3	0.8	-2.3	0.0	0.0	11.8	0.0	0.0	30.7
91	595663.73	4916805.45	288.51	0	D	2000	79.6	17.0	0.0	0.0	0.0	58.3	2.2	-2.3	0.0	0.0	14.0	0.0	0.0	24.3
91	595663.73	4916805.45	288.51	0	D	4000	74.4	17.0	0.0	0.0	0.0	58.3	7.6	-2.3	0.0	0.0	16.6	0.0	0.0	11.2
91	595663.73	4916805.45	288.51	0	D	8000	68.3	17.0	0.0	0.0	0.0	58.3	27.1	-2.3	0.0	0.0	19.4	0.0	0.0	-17.1
91	595663.73	4916805.45	288.51	0	N	32	-62.0	17.0	-188.0	0.0	0.0	58.3	0.0	-3.3	0.0	0.0	8.4	0.0	0.0	-296.3

Line Source, ISO 9613, Name: "", ID: "WEST"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
91	595663.73	4916805.45	288.51	0	N	63	66.2	17.0	-188.0	0.0	0.0	58.3	0.0	-3.3	0.0	0.0	8.6	0.0	0.0	-168.4
91	595663.73	4916805.45	288.51	0	N	125	74.3	17.0	-188.0	0.0	0.0	58.3	0.1	-0.2	0.0	0.0	6.0	0.0	0.0	-160.8
91	595663.73	4916805.45	288.51	0	N	250	83.8	17.0	-188.0	0.0	0.0	58.3	0.2	-1.3	0.0	0.0	7.9	0.0	0.0	-152.2
91	595663.73	4916805.45	288.51	0	N	500	86.2	17.0	-188.0	0.0	0.0	58.3	0.4	-2.3	0.0	0.0	10.1	0.0	0.0	-151.3
91	595663.73	4916805.45	288.51	0	N	1000	82.4	17.0	-188.0	0.0	0.0	58.3	0.8	-2.3	0.0	0.0	11.8	0.0	0.0	-157.3
91	595663.73	4916805.45	288.51	0	N	2000	79.6	17.0	-188.0	0.0	0.0	58.3	2.2	-2.3	0.0	0.0	14.0	0.0	0.0	-163.7
91	595663.73	4916805.45	288.51	0	N	4000	74.4	17.0	-188.0	0.0	0.0	58.3	7.6	-2.3	0.0	0.0	16.6	0.0	0.0	-176.8
91	595663.73	4916805.45	288.51	0	N	8000	68.3	17.0	-188.0	0.0	0.0	58.3	27.1	-2.3	0.0	0.0	19.4	0.0	0.0	-205.1
91	595663.73	4916805.45	288.51	0	E	32	-62.0	17.0	-188.0	0.0	0.0	58.3	0.0	-3.3	0.0	0.0	8.4	0.0	0.0	-296.3
91	595663.73	4916805.45	288.51	0	E	63	66.2	17.0	-188.0	0.0	0.0	58.3	0.0	-3.3	0.0	0.0	8.6	0.0	0.0	-168.4
91	595663.73	4916805.45	288.51	0	E	125	74.3	17.0	-188.0	0.0	0.0	58.3	0.1	-0.2	0.0	0.0	6.0	0.0	0.0	-160.8
91	595663.73	4916805.45	288.51	0	E	250	83.8	17.0	-188.0	0.0	0.0	58.3	0.2	-1.3	0.0	0.0	7.9	0.0	0.0	-152.2
91	595663.73	4916805.45	288.51	0	E	500	86.2	17.0	-188.0	0.0	0.0	58.3	0.4	-2.3	0.0	0.0	10.1	0.0	0.0	-151.3
91	595663.73	4916805.45	288.51	0	E	1000	82.4	17.0	-188.0	0.0	0.0	58.3	0.8	-2.3	0.0	0.0	11.8	0.0	0.0	-157.3
91	595663.73	4916805.45	288.51	0	E	2000	79.6	17.0	-188.0	0.0	0.0	58.3	2.2	-2.3	0.0	0.0	14.0	0.0	0.0	-163.7
91	595663.73	4916805.45	288.51	0	E	4000	74.4	17.0	-188.0	0.0	0.0	58.3	7.6	-2.3	0.0	0.0	16.6	0.0	0.0	-176.8
91	595663.73	4916805.45	288.51	0	E	8000	68.3	17.0	-188.0	0.0	0.0	58.3	27.1	-2.3	0.0	0.0	19.4	0.0	0.0	-205.1
99	595704.91	4916926.88	293.04	0	D	32	-62.0	18.6	0.0	0.0	0.0	61.2	0.0	-4.1	0.0	0.0	8.9	0.0	0.0	-109.5
99	595704.91	4916926.88	293.04	0	D	63	66.2	18.6	0.0	0.0	0.0	61.2	0.0	-4.1	0.0	0.0	8.9	0.0	0.0	18.7
99	595704.91	4916926.88	293.04	0	D	125	74.3	18.6	0.0	0.0	0.0	61.2	0.1	-0.8	0.0	0.0	5.6	0.0	0.0	26.7
99	595704.91	4916926.88	293.04	0	D	250	83.8	18.6	0.0	0.0	0.0	61.2	0.3	-2.0	0.0	0.0	7.0	0.0	0.0	35.9
99	595704.91	4916926.88	293.04	0	D	500	86.2	18.6	0.0	0.0	0.0	61.2	0.6	-3.0	0.0	0.0	8.1	0.0	0.0	37.8
99	595704.91	4916926.88	293.04	0	D	1000	82.4	18.6	0.0	0.0	0.0	61.2	1.2	-3.0	0.0	0.0	8.4	0.0	0.0	33.2
99	595704.91	4916926.88	293.04	0	D	2000	79.6	18.6	0.0	0.0	0.0	61.2	3.1	-3.0	0.0	0.0	8.9	0.0	0.0	27.9
99	595704.91	4916926.88	293.04	0	D	4000	74.4	18.6	0.0	0.0	0.0	61.2	10.7	-3.0	0.0	0.0	9.8	0.0	0.0	14.3
99	595704.91	4916926.88	293.04	0	D	8000	68.3	18.6	0.0	0.0	0.0	61.2	38.0	-3.0	0.0	0.0	11.2	0.0	0.0	-20.6
99	595704.91	4916926.88	293.04	0	N	32	-62.0	18.6	-188.0	0.0	0.0	61.2	0.0	-4.1	0.0	0.0	8.9	0.0	0.0	-297.5
99	595704.91	4916926.88	293.04	0	N	63	66.2	18.6	-188.0	0.0	0.0	61.2	0.0	-4.1	0.0	0.0	8.9	0.0	0.0	-169.3
99	595704.91	4916926.88	293.04	0	N	125	74.3	18.6	-188.0	0.0	0.0	61.2	0.1	-0.8	0.0	0.0	5.6	0.0	0.0	-161.3
99	595704.91	4916926.88	293.04	0	N	250	83.8	18.6	-188.0	0.0	0.0	61.2	0.3	-2.0	0.0	0.0	7.0	0.0	0.0	-152.1
99	595704.91	4916926.88	293.04	0	N	500	86.2	18.6	-188.0	0.0	0.0	61.2	0.6	-3.0	0.0	0.0	8.1	0.0	0.0	-150.2
99	595704.91	4916926.88	293.04	0	N	1000	82.4	18.6	-188.0	0.0	0.0	61.2	1.2	-3.0	0.0	0.0	8.4	0.0	0.0	-154.8
99	595704.91	4916926.88	293.04	0	N	2000	79.6	18.6	-188.0	0.0	0.0	61.2	3.1	-3.0	0.0	0.0	8.9	0.0	0.0	-160.1
99	595704.91	4916926.88	293.04	0	N	4000	74.4	18.6	-188.0	0.0	0.0	61.2	10.7	-3.0	0.0	0.0	9.8	0.0	0.0	-173.7
99	595704.91	4916926.88	293.04	0	N	8000	68.3	18.6	-188.0	0.0	0.0	61.2	38.0	-3.0	0.0	0.0	11.2	0.0	0.0	-208.6
99	595704.91	4916926.88	293.04	0	E	32	-62.0	18.6	-188.0	0.0	0.0	61.2	0.0	-4.1	0.0	0.0	8.9	0.0	0.0	-297.5
99	595704.91	4916926.88	293.04	0	E	63	66.2	18.6	-188.0	0.0	0.0	61.2	0.0	-4.1	0.0	0.0	8.9	0.0	0.0	-169.3
99	595704.91	4916926.88	293.04	0	E	125	74.3	18.6	-188.0	0.0	0.0	61.2	0.1	-0.8	0.0	0.0	5.6	0.0	0.0	-161.3
99	595704.91	4916926.88	293.04	0	E	250	83.8	18.6	-188.0	0.0	0.0	61.2	0.3	-2.0	0.0	0.0	7.0	0.0	0.0	-152.1
99	595704.91	4916926.88	293.04	0	E	500	86.2	18.6	-188.0	0.0	0.0	61.2	0.6	-3.0	0.0	0.0	8.1	0.0	0.0	-150.2
99	595704.91	4916926.88	293.04	0	E	1000	82.4	18.6	-188.0	0.0	0.0	61.2	1.2	-3.0	0.0	0.0	8.4	0.0	0.0	-154.8
99	595704.91	4916926.88	293.04	0	E	2000	79.6	18.6	-188.0	0.0	0.0	61.2	3.1	-3.0	0.0	0.0	8.9	0.0	0.0	-160.1
99	595704.91	4916926.88	293.04	0	E	4000	74.4	18.6	-188.0	0.0	0.0	61.2	10.7	-3.0	0.0	0.0	9.8	0.0	0.0	-173.7
99	595704.91	4916926.88	293.04	0	E	8000	68.3	18.6	-188.0	0.0	0.0	61.2	38.0	-3.0	0.0	0.0	11.2	0.0	0.0	-208.6
105	595717.93	4916977.73	291.13	0	D	32	-62.0	15.3	0.0	0.0	0.0	62.4	0.0	-4.3	0.0	0.0	10.8	0.0	0.0	-115.5
105	595717.93	4916977.73	291.13	0	D	63	66.2	15.3	0.0	0.0	0.0	62.4	0.0	-4.3	0.0	0.0	12.1	0.0	0.0	11.4
105	595717.93	4916977.73	291.13	0	D	125	74.3	15.3	0.0	0.0	0.0	62.4	0.2	-0.9	0.0	0.0	10.4	0.0	0.0	17.6
105	595717.93	4916977.73	291.13	0	D	250	83.8	15.3	0.0	0.0	0.0	62.4	0.4	-2.2	0.0	0.0	14.0	0.0	0.0	24.6
105	595717.93	4916977.73	291.13	0	D	500	86.2	15.3	0.0	0.0	0.0	62.4	0.7	-3.2	0.0	0.0	17.5	0.0	0.0	24.2
105	595717.93	4916977.73	291.13	0	D	1000	82.4	15.3	0.0	0.0	0.0	62.4	1.4	-3.2	0.0	0.0	20.3	0.0	0.0	16.9
105	595717.93	4916977.73	291.13	0	D	2000	79.6	15.3	0.0	0.0	0.0	62.4	3.6	-3.2	0.0	0.0	23.2	0.0	0.0	9.0
105	595717.93	4916977.73	291.13	0	D	4000	74.4	15.3	0.0	0.0	0.0	62.4	12.2	-3.2	0.0	0.0	26.1	0.0	0.0	-7.7
105	595717.93	4916977.73	291.13	0	D	8000	68.3	15.3	0.0	0.0	0.0	62.4	43.5	-3.2	0.0	0.0	28.2	0.0	0.0	-47.2
105	595717.93	4916977.73	291.13	0	N	32	-62.0	15.3	-188.0	0.0	0.0	62.4	0.0	-4.3	0.0	0.0	10.8	0.0	0.0	-303.5
105	595717.93	4916977.73	291.13	0	N	63	66.2	15.3	-188.0	0.0	0.0	62.4	0.0	-4.3	0.0	0.0	12.1	0.0	0.0	-176.6
105	595717.93	4916977.73	291.13	0	N	125	74.3	15.3	-188.0	0.0	0.0	62.4	0.2	-0.9	0.0	0.0	10.4	0.0	0.0	-170.4
105	595717.93	4916977.73	291.13	0	N	250	83.8	15.3	-188.0	0.0	0.0	62.4	0.4	-2.2	0.0	0.0	14.0	0.0	0.0	-163.4
105	595717.93	4916977.73	291.13	0	N	500	86.2	15.3	-188.0	0.0	0.0	62.4	0.7	-3.2	0.0	0.0	17.5	0.0	0.0	-163.8
105	595717.93	4916977.73	291.13	0	N	1000	82.4	15.3	-188.0	0.0	0.0	62.4	1.4	-3.2	0.0	0.0	20.3	0.0	0.0	-171.1
105	595717.93	4916977.73	291.13	0	N	2000	79.6	15.3	-188.0	0.0	0.0	62.4	3.6	-3.2	0.0	0.0	23.2	0.0	0.0	-179.0
105	595717.93	4916977.73	291.13	0	N	4000	74.4	15.3	-188.0	0.0	0.0	62.4	12.2	-3.2	0.0	0.0	26.1	0.0	0.0	-195.7
105	595717.93	4916977.73	291.13	0	N	8000	68.3	15.3	-188.0	0.0	0.0	62.4	43.5	-3.2	0.0	0.0	28.2	0.0	0.0	-235.2
105	595717.93	4916977.73	291.13	0	E	32	-62.0	15.3	-188.0	0.0	0.0	62.4	0.0	-4.3	0.0	0.0	10.8	0.0	0.0	-303.5

Line Source, ISO 9613, Name: "", ID: "WEST"																				
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)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
105	595717.93	4916977.73	291.13	0	E	63	66.2	15.3	-188.0	0.0	0.0	62.4	0.0	-4.3	0.0	0.0	12.1	0.0	0.0	-176.6
105	595717.93	4916977.73	291.13	0	E	125	74.3	15.3	-188.0	0.0	0.0	62.4	0.2	-0.9	0.0	0.0	10.4	0.0	0.0	-170.4
105	595717.93	4916977.73	291.13	0	E	250	83.8	15.3	-188.0	0.0	0.0	62.4	0.4	-2.2	0.0	0.0	14.0	0.0	0.0	-163.4
105	595717.93	4916977.73	291.13	0	E	500	86.2	15.3	-188.0	0.0	0.0	62.4	0.7	-3.2	0.0	0.0	17.5	0.0	0.0	-163.8
105	595717.93	4916977.73	291.13	0	E	1000	82.4	15.3	-188.0	0.0	0.0	62.4	1.4	-3.2	0.0	0.0	20.3	0.0	0.0	-171.1
105	595717.93	4916977.73	291.13	0	E	2000	79.6	15.3	-188.0	0.0	0.0	62.4	3.6	-3.2	0.0	0.0	23.2	0.0	0.0	-179.0
105	595717.93	4916977.73	291.13	0	E	4000	74.4	15.3	-188.0	0.0	0.0	62.4	12.2	-3.2	0.0	0.0	26.1	0.0	0.0	-195.7
105	595717.93	4916977.73	291.13	0	E	8000	68.3	15.3	-188.0	0.0	0.0	62.4	43.5	-3.2	0.0	0.0	28.2	0.0	0.0	-235.2

APPENDIX C

CURRICULUM VITAE

ANTHONY AMARRA, M.Sc.

Acoustic Specialist

VALCOUSTICS Canada Ltd.
Sound solutions to acoustical challenges

Since joing Valcoustics in February 2012, Mr. (Anthony) Amarra's key responsibilities have included analysis, computations, and report preparation.

Anthony's daily work involves Environmental noise and vibration studies to determine impact of road, rail, and stationary sources of sound on adjacent land use, both existing and proposed, as well as selection and analysis of noise mitigation measures, including sound barriers, architectural elements, and operational techniques. Projects are prepared for private and government sectors, involving residential, industrial, and commercial development.

EDUCATION:

- **M.Sc.**, Sound and Vibration Studies, University of Southampton, 2010-2011
- **B.S.,** Physics, University of Philippines, 2004-2009

REPRESENTATIVE PROJECTS INCLUDE:

- Humber River Regional Hospital, Toronto
- 155 Caroline Avenue, Waterloo
- 105 Queen Street East, Bowmanville
- 7777 Weston Road, Vaughan
- Durham Pickering Siren System Design
- Metrolinx Highway 401 Bridge Construction, Etobicoke
- Villalago Residences, Caledon
- Hamilton Spectator/44 Frid Street, Hamilton – AAR
- Ainslie Hill Properties, Georgina
- Bradford Retirement Residence
- BMO Gordon Baker Data Centre, Toronto
- Steelestech Data Centre, Toronto
- NLSP West/Iafrate & DiPede Lands, Richmond Hill
- Diageo/134 Peter Street, Toronto
- True North Square, Winnipeg
- Lansdowne Bridge Vibration Monitoring, Toronto
- P & H Milling, Hanover – AAR
- P & H Flour Mill, Hamilton Harbour – AAR
- UHN/3 Sites-Generator Upgrade, Toronto
- Allmet Roof Products, Chatham/ECA – AAR
- 700 University Avenue, Toronto/Generator Review
- 35 Balmuto Street, Toronto/Generator – AAR
- 220 Wellington Street East, Aurora
- CPR Sutherland Yard, Saskatoon
- Colacem Canada Inc., Grenville-sur-la-Rouge
- Slow Speed Roller Shredder, London
- Toronto Police Headquarters, Toronto/Generator Modification
- Ramara Landscaping Quarry Expansion, Orillia
- 850 Elgin Mills Road East, Richmond Hill
- H. L. Blachford Ltd., Mississauga – Acoustic Audit
- Spencer Creek Estates, Flamborough
- Conn Pit Expansion, Collingwood
- Sunnybrook Hospital, Toronto – Clinical MRI's
- Sunnybrook Hosptial , Toronto – Research MRI
- 1000 Elgin Mills Road East, Richmond Hill
- Toronto Lawn Tennis Club/44 Price Street, Toronto
- Kap Ready Mix, Kapuskasing – Acoustic Audit
- 10 Price Street, Toronto
- Boart Longyear, Mississauga – AAR
- Northern Transformer, Vaughan – AAR
- Wallace Woods Secondary Plan Area, Lakeshore
- And many others.

JOHN EMELJANOW, P.Eng.

Principal Acoustical Engineer

Mr. Emeljanow (John) has been employed with Valcoustics Canada Ltd. for over 30 years. He is a Principal Engineer, a Designated Consulting Engineer with the Professional Engineers of Ontario, a graduate of the Ministry of the Environment's Acoustics Technology in Land Use Planning Course and has given evidence as an expert witness before the Ontario Municipal Board and Local Planning Appeals Tribunal, dealing with environmental acoustics issues in land use planning. John has acted as project manager on a number of major architectural and environmental projects. His responsibilities include noise/vibration measurement, analysis, design computations, and report preparation. In addition, John was an active contributor to the acoustics section of the Architectural Design Standards for Ontario Courthouses prepared for the Ministry of the Attorney General. As an expert witness in acoustics, he has appeared multiple times before the Supreme Court of Ontario, the Ontario Municipal Board/Local Planning Appeal Tribunal, and the Ontario Environmental Assessment Board. He regularly assists with negotiating settlements and wording agreements, to avoid costly hearings and to reduce delays, in the land use approvals process.

EXPERIENCE:

Architectural acoustics involving the interaction of sound and architectural elements within a space to obtain the desired acoustical environment. This involves control of reverberation, ambient sound level, location of sound absorbing and sound reflecting surfaces as well as isolation of sound to and from adjacent spaces. Representative projects are: Niagara Convention Centre; Durham Consolidated Courthouse; Brampton Consolidated Courthouse; Upper Canada College Expansion, Toronto; Toronto Stock Exchange Renovations (The Design Exchange); Sunnybrook Health Science Centre Expansion and Renovation, Toronto; Metro Convention Centre Expansion, Toronto; Canary Wharf (DS5), London; Sudbury Regional Hospital; and GTAA Infield Development, Mississauga.

Environmental noise and vibration studies to determine impact of ground and air transportation and stationary sources of sound on adjacent land use, both existing and proposed, as well as selection and analysis of noise mitigation measures, including sound barriers, architectural elements, and operational techniques. Projects are prepared for private and government sectors, involving residential, industrial and commercial development. Representative projects include: Walker Brothers Quarry, Thorold; Keele Valley Landfill Vertical Expansion, Maple; Canadian National Railway Lands Redevelopment, Toronto; The Woodbridge Expansion Area, Vaughan; Rimply Manufacturing Plant, Newmarket; Honda Canada Manufacturing Minivan Plant, Alliston; Sheppard Subway, Toronto; and Highway 11, Burk's Falls to Powassin.

Mechanical system noise and vibration analyses to control the impact of air-borne and structure-borne sound from mechanical equipment on adjacent spaces through the design of demising surfaces, as well as the control of noise generated and transmitted through HVAC systems. Representative projects include: the New Princess Margaret Hospital, Toronto; National Trade Centre, Toronto; IBM Facility for Software Development, Markham; Niagara College – Glendale Campus, Niagara Falls; The American School, Shanghai; Guelph General Hospital; and Xiamen Conference Centre, China.

EDUCATION:

- **B.Eng.,** Mechanical Engineering, McMaster University, 1989
- Course on Noise Control in Land Use Planning, Ministry of the Environment and Climate Change, Toronto, 1989

PROFESSIONAL AFFILIATION:

- Registered Professional Engineer, Professional Engineers of Ontario
- Designated Consulting Engineer, Professional Engineers of Ontario
- Registered Professional Engineer, with the Engineers and Geoscientists of British Columbia

PUBLICATIONS & PRESENTATIONS:

- "A Technique for Comparing Alternative Transportation Corridor Alignments Based on Noise Impact", presented at Inter-Noise 92, Toronto, Ontario, July 1992.
- "Environmental Noise Aspects of Landfill Site Selection", Canadian Acoustics, Vol. 21, No. 3, September 1993.
- "Acoustical Challenge of Quarry Design", Canadian Acoustics, Vol. 22, No. 3, September 1994.
- "NPC-300 Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning", Seminar for Municipalities, December 9, 2013 (co-presenter).
- "Environmental Acoustics in Land Use Planning", Seminar in Acoustics for the City of Mississauga, June 24-26, 2014 (co-presenter).
- "Environmental Acoustics in Land Use Planning", Seminar in Acoustics for the City of London, July 9-11, 2014 (co-presenter).
- "Workshop: Noise and Vibration for New Development in Proximity to Railway Operations", Prepared for the FCM-RAC Proximity Steering Committee, June 26, 2015 (co-presenter).
- "Environmental Acoustics in Land Use Planning", Seminar in Acoustics for the City of Hamilton, January 23-25, 2018 (co-presenter).
- "Environmental Acoustics in Land Use Planning", Seminar in Acoustics for the City of London, March 23-25, 2021 (co-presenter).