



Land Use Compatibility & Noise Impact Study

**1065-1103 Listowel Road and
354 Arthur Street South**

Schlegel Urban Developments Corp.

11 June 2025

→ **The Power of Commitment**



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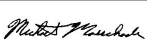
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Executive Summary

GHD Limited (GHD) was retained by Schlegel Urban Developments Corp. to prepare a Land Compatibility Study (Study) for the proposed residential development (Development) located at 1065-1103 Listowel Road and 354 Arthur Street South (Site). This Study has been prepared in support of the planning approvals for the Development.

The Development consists of a mixture of single detached (77 – 111 units), semi-detached (63 – 164 units), townhouses (51 – 65 units) and multiple residential (136 – 250 units) for an approximate total of 327 – 590 residential units. There is one park, and one storm water management block planned.

The purpose of this Study is to assess the following potential impacts:

- Noise impacts at the Development due to future road traffic
- Stationary noise impacts from off-site industrial/commercial facilities
- Stationary noise impacts from on-site equipment
- Guideline D-6 Land Use Compatibility Assessment (Noise, Odour, Dust, Air, vibration)

GHD conducted a site visit on April 04, 2024, to observe and measure noise and odour, and observe dust and air emissions from any nearby stationary sources. No perceptible odour, air or dust emissions were observed during the site visit. Predicted noise levels at the Site from nearby industrial and commercial facilities are sufficiently high that noise mitigation is required in the form of an acoustic barriers, but with mitigation are within the applicable stationary noise limits of the MECP, and thus will not reduce the ability of the facilities to comply with the MECP noise guidelines.

Predicted ambient noise levels at the Development from road traffic are sufficiently high that noise mitigation is required in the form of upgraded building façade components, provisions for central air conditioning and noise barriers, as well as warning clauses.

This report is subject to, and must be read in conjunction with, the limitations set out in section 1.2 and the assumptions and qualifications contained throughout the Report.

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1. Introduction

1.1 Purpose of this Report

GHD Limited (GHD) was retained by Schlegel Urban Developments Corp. to prepare a Land Use Compatibility & Noise Impact Study (Study) for the proposed 27 blocks, including three blocks of multi-residential buildings, seven blocks of townhouses and sixteen blocks of low-density residential Development located at 1065-1103 Listowel Road and 354 Arthur Street South, Elmira, Ontario (Development). This Study has been prepared in support of the planning applications for the Development.

1.2 Site and Development Description

The Site is located at 1065-1103 Listowel and 354 Arthur Street South, approximately 47 metres east of Timber Trail Road and immediately north of Listowel Road. A key plan is included as Figure 1.1, which shows the location of the Site in relation to these transportation corridors. Figure 1.2 shows a map of the ground absorption coefficients.

The Site is currently zoned as Agricultural. The lands surrounding the Site include properties zoned as Residential (R-7A & R-5) to the west, Open Space (O-1), Commercial (C-7), Residential (R-5 & R-3) to the north, Residential (R-2), Commercial (C-4), Institutional (P) to the east, and Agricultural to the south. A zoning map is included in Figure A.1 of Appendix A.

Existing noise sources surrounding the Site are summarized as follows:

- **Road Traffic:** Listowel Road is immediately south, and Arthur Street south is approximately 76 metres (m) to the east
- **Stationary:** Contour Directional Drilling Ltd. is immediately to the west

The area surrounding the Site includes minor terrain elevation changes.

The Development consists of a mixture of single detached (77 – 111 units), semi-detached (63 – 164 units), townhouses (51 – 65 units) and multiple residential (136 – 250 units) for an approximate total of 327 – 590 residential units. There will be a park as well as storm water management space. The Site is currently vacant.

1.3 Scope and Limitations

This report: has been prepared by GHD for Schlegel Urban Developments Corp. and may only be used and relied on by Schlegel Urban Developments Corp. for the purpose agreed between GHD and Schlegel Urban Developments Corp. as set out in section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Schlegel Urban Developments Corp. arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

2. Land Use Compatibility

2.1 Provincial Policy Statement

The Provincial Planning Statement (“PPS”) is a consolidated statement of the provincial government’s policies on land use planning. It “provides policy direction on matters of provincial interest related to land use planning and development. As a key part of Ontario’s policy-led planning system, the Provincial Planning Statement sets the policy foundation for regulating the development and use of land province-wide, helping achieve the provincial goal of meeting the needs of a fast-growing province while enhancing the quality of life for all Ontarians.”

The current PPS, 2024 became effective on October 20, 2024. Policy direction concerning land use compatibility is provided in Section 3.5 of the PPS, 2024:

- “1. Major facilities and sensitive land uses shall be planned and developed to avoid, or if avoidance is not possible, minimize and mitigate any potential adverse effects from odour, noise and other contaminants, minimize risk to public health and safety, and to ensure the long-term operational and economic viability of major facilities in accordance with provincial guidelines, standards and procedures.
2. Where avoidance is not possible in accordance with policy 3.5.1, planning authorities shall protect the long-term viability of existing or planned industrial, manufacturing or other major facilities that are vulnerable to encroachment by ensuring that the planning and development of proposed adjacent sensitive land uses is only permitted if potential adverse effects to the proposed sensitive land use are minimized and mitigated, and potential impacts to industrial, manufacturing or other major facilities are minimized and mitigated in accordance with provincial guidelines, standards and procedures.”

The goals of the PPS are implemented through Municipal and Provincial policies, as discussed below. Provided the Municipal and Provincial policies, guidelines, standards, and procedures are met, the requirements of the PPS will be met.

2.2 Guideline D-6

The MECP Guideline D-6 "Compatibility Between Industrial Facilities and Sensitive Land Uses" (Guideline D-6) provides recommended minimum separation distances (RMSD) and potential areas of influence (AOI) based on the class of the industrial facility. RMSDs are provided based on the industry size and operation type. The guideline provides direction for land use planning to maximize compatibility of industrial uses with adjacent land uses. The goal of Guideline D-6 is to minimize encroachment of sensitive land uses on industrial facilities and vice versa, in order to address potential incompatibility due to adverse effects including air quality, dust, odour, noise, and vibration.

Guideline D-6 separates industry into three broad categories, depending on the nature of their operations and the types of potential impacts:

- **Class I industries** are small scale, self-contained plants or buildings, which produce and store products internally, and have low probability of fugitive emissions. They have daytime operations only, with infrequent movements of products and/or heavy trucks. Some examples include furniture repair and refinishing, electronics manufacturing, auto parts supply, distribution of dairy products, and beverages bottling.
- **Class II industries** perform medium scale processing, with occasional outputs of point source or fugitive emissions. Activities may include some outdoor storage of wastes and materials, frequent movement of products and/or heavy trucks during the daytime, and shift work. Some examples include paint spray booths, feed packing plant, dairy product manufacturing, and dry-cleaning services.
- **Class III industries** conduct large-scale manufacturing and are characterized by persistent and/or intense dust and/or odour, frequent outputs of major annoyances, and have a high probability of fugitive emissions. Activities may include continuous operations and movements of products, outside storage of raw and finished goods, and high levels of production. Some examples include manufacturing of paint and varnish, manufacturing of resins and coatings, solvent recovery plants, organic chemicals manufacturing, breweries, and metal manufacturing.

The following table summarizes the recommended minimum setback distances and areas of potential influence which represents the distance within which adverse effects could potentially occur.

Table 2.1 *Guideline D-6 Industry Separation Distances*

Industry Classification	RMSD (metres)	AOI (metres)
Class I	20	70
Class II	70	300
Class III	300	1,000

Guideline D-6 provides criteria for classifying industrial land uses, based on their outputs, scale of operations, processes, schedule, and intensity of operations. Often an industry will fall between two Classes. Guideline D-6 states that no incompatible development should occur within the recommended minimum separation distance as noted in Table 2.1. In cases where the recommended minimum separation distances are not met, further detailed assessment is warranted to ensure compatibility as stated in guideline D-6.

2.3 Classification of Industries

GHD has evaluated the size and operations of the commercial/industrial facilities in the general vicinity of the Site to apply the appropriate classification per Guideline D-6. GHD's evaluation and classification of these facilities is summarized in Table 2.2 below.

Table 2.2 Summary of Key Industries nearby to the Development

Facility Name	Address	MECP Permit / Registration	Description of Operations	D-6 Class	RMSD (m)	AOI (m)	Distance from Site (m)	Assessments Warranted
Advanced Millwrights Inc.	21 Howard Ave	5373-AAVQTA (EA)	- Paint booth - Welding activities - Industrial equipment supplier - Shift operations permitted - 7:00 am to 2:00 am	II	70	300	942	--
Astron Tool & Machine Ltd	29 Oriole Parkway East	N/A	- Industrial equipment supplier - Daytime operations only - Some outdoor storage	II	70	300	925	--
Bridgeland Terminals Limited	35 Oriole Parkway East	6734-A9FNCR (ECA)	- Hazardous good transportation - Truck hub - No outside storage - Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours	II	70	300	720	--
Contour Directional Drilling Ltd.	374 Arthur St S	N/A	- Trenchless drilling - Head Office - Daytime operations only - Storage of equipment	I	20	70	0	Noise
EGS Electrical Group Canada Ltd	99 Union St	9378-7QQQQ2	- Curing oven - Electronics Manufacturer	II	70	300	998	--
Elliot Coach Lines, STC	175 Union St	N/A	- School bus dispatch/Truck rental agency - Daytime operations only	II	70	300	816	--
Elmira Farmers Market	384 Arthur St S	N/A	- Daytime operations only - Local product store	I	20	70	0	--

Facility Name	Address	MECP Permit / Registration	Description of Operations	D-6 Class	RMSD (m)	AOI (m)	Distance from Site (m)	Assessments Warranted
Elmira Truck Service	25 Earl Martin Dr	N/A	- Service hours 8:00 am-12:30 am - Fuel Depot 24/7 - Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours - Automotive Maintenance	II	70	300	224	Noise
Elmira Truck Wash	270 Union St	N/A	- Service hours 8:00 am-5:00 pm - Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours - Automotive Maintenance	II	70	300	485	--
Engineered Lifting Systems & Equipment Inc. operating as Mentor Dynamics	275 Union St	3664-7R4KYE	- Paint spray booth - Welding activities	II	70	300	581	--
Heinz Custom Woodworking Inc.	85 Earl Martin Dr	8743-6MVLMC (Certificate of Approval Air)	- Custom wood cabinet manufacturing - Paint spray booth - Daytime operations only 7:15 am to 4:15 pm Monday to Friday	II	70	300	236	Noise
Hoefler Door Systems Inc.	346A Arthur St S	N/A	- Garage door supplier - Showroom - 8:00 am to 5:00 pm, Monday to Friday	I	20	700	0	Noise
Horst Systems	290 Union St	N/A	- Agricultural equipment manufacturer - Outdoor storage	II	70	300	309	--
Leroy's Auto Car	20 Oriole Parkway East	N/A	- Mechanic - Daytime operations only	I	20	70	957	--

Facility Name	Address	MECP Permit / Registration	Description of Operations	D-6 Class	RMSD (m)	AOI (m)	Distance from Site (m)	Assessments Warranted
LP Custom Machining	50 Southfield Dr	N/A	- Metal command - Some outdoor storage - Shift work allowed - 6:00 amM to 5:00 pm current hours of operations - Future 6:00 am to 1:00 am	II	70	300	715	--
Martin's Processing Ltd.	22 Donway Court	4467-A2UMAP (ECA)	- Snack food manufacturing - Operating 24 hours, Monday to Friday - Apple products including but not limited to; chips, puree, cider, fresh slice and dices for food service industry	II	70	300	312	Odour
Martin's Small Engines and Auto Clinic	21 Industrial Dr	N/A	- Mechanic - Daytime operations only	I	20	70	931	--
Murphy's Law Distillery Ltd	90 Earl Martin Dr	N/A	- Liquor distillery - Daytime operations	I	20	70	154	Odour
OK Tire	371 Arthur St S	N/A	- Daytime Operations - Tire Shop and automotive services	II	70	300	92	Noise
Precise Castings Inc	124 Bonnies Cr	8071-9Y9KKR (ECA)	- Metal Manufacturing - Stainless steel castings manufacturing facility	III	300	1000	1309	--
Resufice Corp	25 Oriole Parkway East	N/A	- Zamboni Manufacturer - Metal command	II	70	300	765	--
Rigarus Construction	284 Union St	N/A	- Telecommunications construction services - Metal command - Outdoor storage	II	70	300	393	--
Sanyo Canadian Machine Works Inc	33 Industrial Dr	N/A	- Automated Assembly and welding system manufacturer - Metal Command	II	70	300	794	--

Facility Name	Address	MECP Permit / Registration	Description of Operations	D-6 Class	RMSD (m)	AOI (m)	Distance from Site (m)	Assessments Warranted
The Mercantile At The Crossroads	384 Arthur St S	N/A	- Daytime operations only - Gift shop	I	20	70	0	--
Task Custom Metal Fab Ltd.	99 Earl Martin Dr	N/A	- Metal equipment manufacturer - Metal command - 7:00 am to 4:30 pm Monday to Thursday - 7AM to 11AM - No outdoor storage	II	70	300	191	Noise
Toyota Boshoku	45 S Field Dr	A-500-1117360745 (ECA)	- Paint spray booths - Adhesive spray booths - Auto part manufacturer	II	70	300	584	--
Tri-Mach	285 Union St	N/A	- Food manufacturing equipment manufacturer - Metal command - Shift operations permitted - 7:00 am to 2:00 am	II	70	300	509	--
Tri-Mach	18 Donway Ct	N/A	- Food manufacturing equipment manufacturer - Shift operations permitted - 7:00 am to 2:00 am	II	70	300	376	--
Trylon TSF Inc.	21 S Field Dr	9772-82WBML (Amended Certificate of Approval)	- Paint spray booth - Emergency diesel generator - Telecommunication equipment supplier	II	70	300	478	--
Westower Communications Ltd	60 S Field Dr	N/A	- Telecommunication equipment manufacturer	II	70	300	842	--

Figure 2.1 attached shows the locations of the facilities listed above in relation to the Site.

2.3.1 Contour Directional Drilling Ltd.

Contour Directional Drilling Ltd. (Contour) is a head office/storage property located immediately east of the Development at 374 Arthur Street South.

Based on GHD's review of aerial imagery, field observations, and telephone communications with Contour, this location operates as a head office and stores some equipment on site. Small trucks may occasionally stop by the property to pick up equipment. Contour operates 8:00 am to 4:00 pm, Monday to Friday. Loading, unloading of equipment, products and materials activities are limited to the daytime hours, per the Noise by-law.

Under Guideline D-6, the Contour facility would be best described as a Class I industry based on the following:

- Daytime operations only
- Infrequent movement of products and/or heavy trucks

Class I industries have an RMSD of 20 metres and an AOI of 70 metres under the D-6 compatibility guidelines. As noted above, Contour is immediately east from the Development, which is within the RMSD setback distance, and therefore warrants a justifying impact statement to further assess compatibility per Guideline D-6.

2.3.2 Elmira Truck Service

Elmira Truck Service is a transportation truck maintenance service shop and fuel dept located approximately 224 metres east of the Development at 25 Earl Martin Drive.

Based on GHD's review of aerial imagery, field observations and telephone communications with Elmira Truck Service transportation trucks are frequently entering and exiting the property. There are seven bay doors on the north and five south side of the building, which are used for servicing commercial trucks.

Elmira Truck Service maintenance services are offered from 7 AM until 12:30 AM, and the fuel depot operates 24 hours per day, 7 days per week. Shipping activities are limited to the daytime hours, per the Noise By-law.

Under Guideline D-6, the Elmira Truck Service facility would be best described as a Class II industry based on the following:

- Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours
- No manufacturing

Class II industries have an RMSD of 70 meters and an AOI of 300 meters under the D-6 compatibility guidelines. As noted above, Elmira Truck Service is 224 metres from the Development, which is within the potential AOI setback distance. However, there are existing residential uses between Elmira Truck Service and the Development, such that the Development does not encroach on Elmira Truck Service's operations and accordingly does not impact the ability of Elmira Truck Service to comply with applicable air/odour/dust/noise/vibration limits. Therefore, detailed assessment of emissions from this facility are not warranted.

2.3.3 Heinz Custom Woodworking

Heinz Custom Woodwork (Heinz) is a woodworking facility located approximately 236 metres east of the Development at 85 Earl Martin Drive. Heinz currently operates under MECP Environmental Compliance Approval (ECA) number 8743-6MVLMLC and is obligated to comply with the sound level limits of NPC-300 as well as air contaminant concentration limits at its property line and other points of impingement in accordance with the Environmental Protection Act.

Based on GHD's review of aerial imagery, telephone communications I, field observations, and its ECA, Heinz includes a paint spray booth, one natural gas fired air makeup unit indoors, and one dry-type paint arrestor filter exhausting into the atmosphere. There are heating, ventilating, and air conditioning (HVAC) units on its roof. There is one loading bay on the east side of the building which is used for shipping and receiving of raw and finished products.

Heinz operates from 07:15 am to 4:15 pm, Monday to Friday under the North American Industry Classification System (NAICS) of spraying operations under 10 litres/hour (l/hr). Shipping activities are limited to the daytime hours, per the Noise By-law.

Under Guideline D-6, the Heinz facility would be best described as a Class II industry based on the following:

- Paint Spray booths
- Daytime operations only

Class II industries have an RMSD of 70 metres and an AOI of 300 metres under the D-6 compatibility guidelines. As noted above, Heinz is 236 metres from the Development, which is within the potential AOI setback distance. Further, as per Ontario Regulation 1/17, Activities Requiring Assessment of Air Emissions Regulation, the recommended setback distance for industries with spray operations under 10l/hr is 100 metres, which is outside the potential AOI setback distance, and therefore compatibility issues between Heinz and the Development are not expected based on Ontario Regulation 1/17. There are existing residential uses between Heinz and the Development, such that the Development does not encroach on Heinz's operations and accordingly does not impact the ability of Heinz to comply with applicable air/odour/dust/noise/vibration limits. Therefore, detailed assessment of emissions from this facility are not warranted.

2.3.4 Hoefler Door Systems Inc.

Hoefler Door Systems Inc. (Hoefler) is a showroom for garage-doors located immediately east of the Development at 346A Arthur Street South. Based on GHD's review of aerial imagery, telephone communications with Hoefler and field observations this facility only operates as a showroom for customers, and no manufacturing occurs on site. Hoefler operates 8AM to 5PM, Monday to Friday. HVAC equipment may operate at any time.

Under Guideline D-6, the Hoefler facility would be best described as a Class I industry based on the following:

- Daytime operations only
- Infrequent movement of products and/or heavy trucks

Class I industries have an RMSD of 20 metres and an AOI of 70 metres under the D-6 compatibility guidelines. As noted above, Hoefler is immediately adjacent to the Development, which is within the RMSD setback distance, and therefore requires a justifying impact statement to further assess compatibility per Guideline D-6. However, Hoefler is a showroom and is not a significant source of emissions. There are also existing residential uses directly adjacent to Hoefler, such that the Development does not encroach on Hoefler's operations and accordingly does not impact the ability of Hoefler to comply with applicable air/odour/dust/noise/vibration limits. Therefore, detailed assessment of emissions from this facility are not warranted.

2.3.5 Martin's Processing Ltd.

Martin's Processing Ltd. (Martin's) is a snack food manufacturing facility located approximately 312 metres east of the Development at 22 Donway Court. Martin's currently operates under MECP Environmental Compliance Approval (ECA) number 4467-A2UMSP, and is obligated to comply with the sound level limits of NPC-205 as well as air contaminant limits at its property line and other points of impingement in accordance with the Environmental Protection Act.

Based on GHD's review of aerial imagery, telephone communications with Martin's, field observations, and its ECA, Martin's has heating, ventilating, and air conditioning (HVAC) units on its roof. There are three loading bays on the southeast side of the building and an additional two loading bays on the north east side of the building which are used for shipping and receiving of raw and finished products.

Martin's operates 24 hours per day, 5 days per week under the North American Industry Classification System (NAICS) code 311420, Fruit and Vegetable Canning, Pickling and Drying. Shipping activities are limited to the daytime hours, per the Noise By-law. However, HVAC equipment may operate at any time.

Under Guideline D-6, the Martin's facility would be best described as a Class II industry based on the following:

- Shift Operations permitted
- Frequent movement of products and/or heavy trucks with the majority of movements during the daytime hours
- No current outside storage

Class II industries have an RMSD of 70 metres and an AOI of 300 metres under the D-6 compatibility guidelines. As noted above, Martin's is 312 metres from the Development, which is outside the potential AOI setback distance, and therefore compatibility issues between Martin's and the Development are not expected based on Guideline D-6. However, as per Ontario Regulation 1/17, Activities Requiring Assessment of Air Emissions Regulation, the recommended setback distance for industries under NAICS 311420 is 350 metres.

There are existing residential uses between the Development and the Martin's facility, such that the Development does not encroach on the facility's operations and accordingly does not impact the ability of Martin's to comply with applicable air/odour/dust/noise/vibration limits. Nevertheless, further discussion of potential odour emissions is included in Section 0.

2.3.6 Murphy's Law Distillery

Murphy's Law Distillery (Murphy's Law) is a craft moonshine distillery located approximately 154 metres east of the Development at 90 Earl Martin Drive. Murphy's Law operates from 9:00 am to 5:00 pm, Monday to Saturday under NAICS code 312140, Distilleries. Shipping/receiving trucks currently enter and exit the facility at a frequency of two to three times per week. Shipping activities are limited to the daytime hours, per the Noise By-law.

Under Guideline D-6, the Murphy's Law facility would be best described as a Class I industry based on the following:

- Daytime operations only
- Self contained plant or building which produces/stores a packaged product
- Low probability of fugitive emissions

Class I industries have an RMSD of 20 meters and an AOI of 70 meters under the D-6 compatibility guidelines. As noted above, Murphy's Law is 154 metres from the Development. However, as per Ontario Regulation 1/17, Activities Requiring Assessment of Air Emissions Regulation, the setback distance for facilities under NAICS code 312140 is 500 metres.

There are existing residential uses between the Development and the Murphy's Law facility, such that the Development does not encroach on the facility's operations and accordingly does not impact the ability of Murphy's Law to comply with applicable air/odour/dust/noise/vibration limits. Nevertheless, further discussion of potential odour emissions is included in Section 0.

2.3.7 OK Tire

OK Tire is a tire and automotive service shop located approximately 92 metres east of the Development at 371 Arthur Street South.

Based on GHD's review of aerial imagery and field observations, OK Tire has exhaust fans and heating, ventilating, and air conditioning (HVAC) units on its roof. There are six loading bays on the north side and four on the south side of the building which are used for automotive servicing.

OK Tire operates 8:00 to 17:00 Monday to Friday and 8:00 to 12:00 Saturdays. Shipping activities are limited to the daytime hours, per the Noise By-law.

Under Guideline D-6, the OK Tire facility would be best described as a Class II industry based on the following:

- Daytime operations only
- Periodic outputs of minor annoyance (noise)

Class II industries have an RMSD of 70 metres and an AOI of 300 metres under the D-6 compatibility guidelines. As noted above, OK Tire is 92 metres from the Development, which is within the potential AOI setback distance. However, there are existing residential uses between OK Tire and the Development, such that the Development does not encroach on OK Tire's operations and accordingly does not impact the ability of OK Tire to comply with applicable air/odour/dust/noise/vibration limits. Therefore, detailed assessment of emissions from this facility are not warranted.

2.3.8 Task Custom Metal Fab Ltd.

Task Custom Metal Fab Ltd. (Task) is a metal equipment manufacturer located approximately 191 metres east of the Development at 99 Earl Martin Dr.

Based on GHD's review of aerial imagery, and field observations Task has exhaust fans and heating, ventilating, and air conditioning (HVAC) units on its roof. There are two loading bays on the east side of the building which are used for shipping and receiving of raw and finished products. Task operates from 7:00 am to 4:30 pm, Monday to Thursday, and 7:00 am to 11:00 am on Fridays. Shipping activities are limited to the daytime hours, per the Noise By-law.

Under Guideline D-6, the Task facility would be best described as a Class II industry based on the following:

- Operations include welding, cutting, punching, shearing, and forming
- Daytime operations only
- Small area of outdoor storage

Class II industries have an RMSD of 70 metres and an AOI of 300 metres under the D-6 compatibility guidelines. As noted above, Task is 191 metres from the Development, which is within the AOI. However, there are existing residential uses between Task and the Development, such that the Development does not encroach on Task's operations and accordingly does not impact the ability of Task to comply with applicable air/odour/dust/noise/vibration limits. Therefore, detailed assessment of emissions from this facility are not warranted.

2.3.9 Other Industries

There are other existing industries between 300 metres and 1,000 metres away from the Development that are not described herein. GHD has reviewed these industries and determined that they are either Class I or Class II industries, such that they would not warrant further assessments per Guideline D-6 and are not expected to impact the Development.

2.4 Guideline D-6 Assessment Conclusions

2.4.1 Existing Industries

Based on the industry classifications noted above and their setbacks relative to the sensitive uses of the Development (see Figure 2.1), GHD has identified the following industries that have potential areas of influence and/or recommended minimum setback distances within which the Development is located:

Table 2.3 *Industries Warranting Further Assessment*

Facility Name	Further Assessment Warranted?				
	Air Quality	Dust	Odour	Noise	Vibration
Contour Directional Drilling Ltd.				X	
Martin's Processing Ltd.			X		
Murphy's Law Distillery			X		

Section 4.10.3 of the D-6 Guideline allows the proponent to provide a justifying impact assessment to support an application for a change in land use where the minimum distances are not met. A detailed stationary noise impact assessment is included in Section 7.3.2 of this report to satisfy this requirement.

GHD contacted the MECP Duty Officer for Woolwich, to inquire about the history of complaints with respect to emissions from industries in the area surrounding the Development. The search criteria used included a five-year window of records within a 1 km radius around the Development. The Duty Officer informed GHD that there have been no recent complaints in the area and a Freedom of Information request has been submitted.

Murphy's Law Distillery indicated the frequency of shipping/receiving trucks entering/exiting the facility are expected increase in the future. None of the remaining industries indicated an immediate interest in expanding their operations.

2.4.2 Potential Future Industries

There are no industrial-zoned vacant lands in close proximity to the Development. Any potential future industries that may be proposed would be required to be compatible with existing residential uses and must incorporate appropriate emissions controls. Therefore, the Development is not anticipated to be impacted by emissions from any potential future industries.

3. Air Quality Impact Assessment

No facilities have been identified with significant air quality emissions that would be expected to impact the Development. All facilities are obligated to comply with the air contaminant concentration limits at its property line and other points of impingement in accordance with the Environmental Protection Act. Based on GHD's field observations and review of aerial imagery, there are no significant sources of air quality emissions in close proximity to the Development. Further assessment of potential air quality impacts is not warranted.

4. Dust Impact Assessment

No facilities have been identified with significant dust emissions that would be expected to impact the Development. Based on GHD's field observations and review of aerial imagery, there are no significant sources of dust emissions in close proximity to the Development. Further assessment of potential dust impacts is not warranted.

5. Odour Impact Assessment

Murphy's Law Distillery manufacturers moonshine liquor which is a potential source of odour emissions as distillery's (312140) are listed in Table 1, Chapter 4, of the EASR publication as a potentially odorous activity, with a recommended setback of 500 metres. The facility utilizes fermenters and a still in the process which have the potential to emit odour. However, the process is completely enclosed indoors. While Murphy's Law Distillery does classify as a Distillery as per the EASR publication, it is a small batch craft, indicating smaller scale of operations. The president of Murphy's Law Distillery confirmed that the facility has not generated any odour complaints during their operations, since 2015.

Martin's Processing Ltd. conducts fruit drying, which is a potential source of odour emissions as Fruit and Vegetable canning, pickling, and drying (311420) is listed in Table 1, Chapter 4, of the EASR publication as a potentially odorous activity, with a recommended setback of 350 metres. However, based on a phone call with the operations director on March 22nd, 2024, this facility has not generated any complaints during their operations, since 2012.

As per Section 2.3.3, Heinz is outside of the AOI setback distance, and therefore compatibility issues between Heinz and the Development are not expected based on Ontario Regulation 1/17.

Additionally, there are already existing residential uses located closer to these industries, the Development would not present a new worst-case off-site point impingement. Further, no odours were detected downwind of any of the facilities noted above during the GHD site visit on April 4, 2024. Therefore, it is GHD's opinion that odour emissions are not expected to impact the Development.

6. Vibration Impact Assessment

No facilities have been identified with significant vibration emissions that would be expected to impact the Development. Based on GHD's field observations and review of aerial imagery, there are no significant sources of vibration emissions in close proximity to the Development. Further assessment of potential vibration impacts is not warranted.

7. Noise Impact Assessment

7.1 Sound and Vibration Criteria

7.1.1 Municipal Ordinances

The Corporation of the Township of Woolwich By-law No. 47-2023, Noise (Noise By-Law), dated June 6, 2023 has been reviewed in the context of this Study. The Noise By-Law includes specific requirements and prohibitions of noise emissions based on source type during certain time periods, including:

- Noise emissions resulting from loading, unloading, delivering, packing, unpacking, and otherwise handling of any containers, products or materials are prohibited from 19:00 pm to 7:00 am the next day, all day on Saturdays, Sundays, and statutory holidays (Noise By-Law 47-2023 Schedule A, section 15).

The Noise By-Law does not include any objective sound level criteria for the assessment of noise emissions from commercial/industrial operations; therefore, sound level criteria contained in the Ontario Ministry of the Environment, Conservation and Parks (MECP) guideline NPC-300 "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning" (August 2013) are appropriate to be used as the basis for assessment of potential noise impacts.

As of September 17, 2021, by way of the Main Street Recovery Act, the Province of Ontario removed the power of municipalities to prohibit/regulate noise in connection with delivery of goods to retail business establishments, restaurants (including cafes and bars), hotels, motels, and goods distribution facilities. It is understood that this bill is intended to aid in the economic recovery due to impacts of the COVID-19 pandemic. There are provisions in the Main Street Recovery Act that provide for future regulations to restore municipal powers; however, these regulations have not yet been enacted. Therefore, for the purposes of this Study, the Noise By-Law has been assumed to have no effect on the affected businesses.

7.1.2 Transportation Noise Criteria

Under NPC-300, road traffic noise impacts are evaluated separately for exterior receptors and interior receptors based on the average day (07:00 to 23:00) and night (23:00 to 07:00) noise impacts. The sound levels are expressed in terms of A-weighted equivalent sound levels (Leq).

NPC-300 defines two categories of receivers for transportation noise:

- **Plane of Window (POW):** Point corresponding with the centre of a window of a sensitive space.
- **Outdoor Living Area (OLA):** Outdoor location intended and designed for quiet enjoyment of the outdoor environment that is readily accessible from the building (e.g., backyards, front yards, gardens, terraces, patios). Private balconies and terraces are only considered OLAs if they are greater than 4 metres in depth and if they are the only outdoor living area for the occupant(s).

NPC-300 specifies sound level limits for POW and OLA receivers as summarized in Table 7.1 below.

Table 7.1 Road Traffic – Outdoor Sound Level Limits

Receiver Category	Sound Level Limit (dBA)	
	Day (16-hour Leq)	Night (8-hour Leq)
Plane-of-Window (POW)	55	50
Outdoor Living Area (OLA)	55	N/A

For POWs, combined road and rail traffic sound levels exceeding the corresponding criteria above would require additional controls for MECP compliance. Depending on the magnitude of the exceedances, additional controls may include ventilation requirements, requirements for building envelope elements, and/or noise warning clauses.

For OLAs, road traffic sound levels exceeding the daytime limit indicated above would require design of noise barriers to achieve the target, and/or warning clauses. NPC-300 states that sound levels up to 5 dBA above the OLA sound level limit (i.e., up to 60 dBA) are acceptable with the use of an appropriate noise warning clause.

If POW sound levels from future road traffic exceed 65 dBA during the day or 60 dBA at night, building envelope components must be designed to achieve the indoor sound level limits of NPC-300. The indoor sound level limits for road traffic are summarized in Table 7.2 below.

Table 7.2 Road Traffic – Indoor Sound Level Limits (Residential uses)

Receiver Category	Road Sound Level Limits (dBA)	
	Day (16-hour Leq)	Night (8-hour Leq)
Indoor living areas (excluding sleeping quarters)	45	45
Sleeping quarters	45	40

7.1.3 Stationary Noise Limits

7.1.3.1 MECP Standard Limits

NPC-300 defines stationary noise sources as sound from all sources that are normally operated within the property lines of a facility. The noise impact from stationary sources is evaluated based on operations during a predictable worst-case hour. Stationary noise assessment criteria are generally determined based on the MECP's minimum exclusionary sound level limits, as presented in NPC-300, in comparison to the background sound levels experienced in the area.

The Site is in what would generally be considered a Class 2 acoustic environment as defined by NPC-300, as the acoustic environment is dominated by human activities (i.e., road traffic).

Table 7.3 below summarizes the MECP's minimum exclusionary sound level limits for Class 2 areas, which are expressed in terms of 1-hour equivalent sound levels (1-hour Leq):

Table 7.3 *MECP Minimum Exclusionary Sound Level Limits for Steady Sound – Class 2 Area*

Point of Reception Type	Sound Level Limits (dBA)		
	Day (7am – 7pm)	Evening (7pm – 11pm)	Night (11pm – 7am)
Plane of window	50	50	45
Outdoor space	50	45	--

The applicable guideline sound level limits for regular scheduled testing of emergency equipment (e.g., standby generator) are 5 dBA higher than the corresponding values above.

Impulse noise sources are evaluated separately from steady noise sources. For impulse noise, the sound level limit at a point of reception expressed in terms of the Logarithmic Mean Impulse Sound Level (L_{LM}), and is dependent on the number of impulses in a given hour. The impulse sound level limits for a Class 2 area are summarized as follows:

Table 7.4 *MECP Minimum Exclusionary Sound Level Limits for Impulsive Sound – Class 2 Area*

Number of Impulses Per Hour	Sound Level Limits (dBA)	
	Plane of Window POR (7am – 11pm / 11pm – 7pm)	Outdoor POR (7am – 11pm)
9 or more	50 / 45	50
7 to 8	55 / 50	55
5 to 6	60 / 55	60
4	65 / 60	65
3	70 / 65	70
2	75 / 70	75
1	80 / 75	80

7.1.3.2 Residential Air Conditioners

The Ontario Ministry of Environment, Conservation and Parks (MECP) guideline NPC-216 "Residential Air Conditioning Devices" (1993) contains noise level criteria for stationary noise sources (e.g., rooftop mechanical equipment, etc.). The assessment criteria are determined for a point-of-reception based on the minimum exclusionary limits presented in Table 216-2 of NPC-216 in comparison with the existing background sound levels (plus 5 dBA) experienced in the area (whichever is higher):

Table 7.5 *NPC-216 Criteria for Central Air Conditioning Devices*

Area Type	One Hour Leq
Class 2	45
Class 1	50*

Note:

* When central air conditioners are requirements for noise control in the interior living spaces of new developments, the specific sound level limit is increased to 55 dBA.

7.2 Transportation Noise Impact Assessment

7.2.1 Methodology

The roadways near the Site were modelled as sources of sound using the road element in CadnaA set to predict noise emission rates in accordance with the United States of America's (US) Department of Transportation's Traffic Noise Model (TNM).

The 3D CadnaA model accounts for the complex geometry at the Site and the surrounding area. The area surrounding the Site features minor elevation changes, which have been captured in the model using ground elevation data obtained from Ontario Digital LiDAR Terrain Model (ODTM), OMAFRA Lidar 2018, Lake Erie 0.5 m Resolution. Road traffic noise levels were predicted at all POWs of the Development using the Building Noise Map feature of CadnaA, and at OLAs using point receivers.

To demonstrate that the model is generally consistent with the STAMSON model that is the standard in Ontario, a sample STAMSON calculation is included in Appendix B representing a south façade of Block 23 Building C at 7.5 m above grade. The prediction results are within ± 1 dBA of the CadnaA noise predictions, indicating that the CadnaA model is consistent with STAMSON.

7.2.2 Road Traffic Data

Future road traffic model parameters used in this Study is summarized as follows:

Table 7.6 Future (2034) Road Traffic Input Parameters

Road Segment	Future AADT	Speed Limit (km/h)	Day/Night Split	Commercial Vehicle Rates (medium trucks/heavy trucks)
Listowel Road	13,200	80	90% / 10%	3.5% / 11.4%
Arthur Street South	22,900	60	90% / 10%	2% / 4.1%

Road traffic volumes for Listowel Road and Arthur Street South were obtained from Region of Waterloo in the form of AADT volumes for the year 2034, including a day / night split of 90% / 10% and commercial vehicle rates.

Figure 1.1 shows the location of the roadways noted above in relation to the Site. All road traffic data referenced in this Study is included in Appendix C.

7.2.3 Road Traffic Results

7.2.3.1 Plane of Window Receivers

Predicted future road traffic noise impacts at an assumed top floor receptor height of 7.5 metres are summarized as follows:

Table 7.7 Unmitigated Future Road Noise Levels – Plane of Window

Block	Future Noise Levels (dBA)		Limits Exceeded?
	Day	Night	
Block 1	52	45	No
Block 2	52	45	No
Block 3	52	46	No
Block 4	53	47	No
Block 5	53	47	No

Block	Future Noise Levels (dBA)		Limits Exceeded?
	Day	Night	
Block 6	58	51	Yes
Block 7	54	47	No
Block 8	55	48	No
Block 9	58	51	Yes
Block 10	57	50	Yes
Block 11	57	50	Yes
Block 12	54	48	No
Block 13	56	49	Yes
Block 14	56	50	Yes
Block 15	57	51	Yes
Block 16	58	52	Yes
Block 17	61	54	Yes
Block 18	58	51	Yes
Block 19	52	46	No
Block 20	58	52	Yes
Block 21	59	52	Yes
Block 22	70	63	Yes
Block 23	70	63	Yes
Block 24	58	51	Yes

As seen above, future road noise levels at the façades generally range from 52 dBA to 70 dBA during the day and 45 dBA to 63 dBA at night. These sound levels are sufficiently high that the Development must incorporate physical noise mitigation and noise warning clauses in accordance with NPC-300, which are described further in Section 8. Figure 5.1 shows the predicted road traffic noise contours at the façades throughout the Development at a height of 7.5 metres above grade.

7.2.3.2 Outdoor Living Areas

Predicted future road traffic noise impacts at the potential OLAs of the Development are summarized as follows:

Table 7.8 Future Road Noise Levels – Worst-case Outdoor Living Area

Block	Description	Future Daytime Noise Level (dBA)	Limit Exceeded?
Block 1	Block 1 Outdoor amenity space on ground level (1.5 m AG)	51	No
Block 2	Block 2 Outdoor amenity space on ground level (1.5 m AG)	51	No
Block 3	Block 3 Outdoor amenity space on ground level (1.5 m AG)	52	No
Block 4	Block 4 Outdoor amenity space on ground level (1.5 m AG)	52	No
Block 5	Block 5 Outdoor amenity space on ground level (1.5 m AG)	53	No
Block 6	Block 6 Outdoor amenity space on ground level (1.5 m AG)	55	No
Block 7	Block 7 Outdoor amenity space on ground level (1.5 m AG)	52	No
Block 8	Block 8 Outdoor amenity space on ground level (1.5 m AG)	54	No

Block	Description	Future Daytime Noise Level (dBA)	Limit Exceeded?
Block 9	Block 9 Outdoor amenity space on ground level (1.5 m AG)	56	Yes
Block 10	Block 10 Outdoor amenity space on ground level (1.5 m AG)	56	Yes
Block 11	Block 11 Outdoor amenity space on ground level (1.5 m AG)	57	Yes
Block 12	Block 12 Outdoor amenity space on ground level (1.5 m AG)	55	No
Block 13	Block 13 Outdoor amenity space on ground level (1.5 m AG)	56	Yes
Block 14	Block 14 Outdoor amenity space on ground level (1.5 m AG)	55	No
Block 15	Block 15 Outdoor amenity space on ground level (1.5 m AG)	58	Yes
Block 16	Block 16 Outdoor amenity space on ground level (1.5 m AG)	58	Yes
Block 17	Block 17 Outdoor amenity space on ground level (1.5 m AG)	61	Yes
Block 18	Block 18 Outdoor amenity space on ground level (1.5 m AG)	59	Yes
Block 19	Block 19 Outdoor amenity space on ground level (1.5 m AG)	52	No
Block 20	Block 20 Outdoor amenity space on ground level (1.5 m AG)	59	Yes
Block 21	Block 21 Outdoor amenity space on ground level (1.5 m AG)	58	Yes
Block 22	Block 22 Outdoor amenity space on ground level (1.5 m AG)	68	Yes
Block 23	Block 23 Outdoor amenity space on ground level (1.5 m AG)	69	Yes
Block 24	Block 24 Outdoor amenity space on ground level (1.5 m AG)	59	Yes

As seen above, the cumulative daytime road noise levels at the worst-case Blocks range from 51 dBA to 69 dBA. Noise levels at Blocks 17, 22 and 23 are sufficiently high that physical noise mitigation is required. Noise levels at Blocks 09 to 11, 13, 15 to 18, 20, 21, and 24 are sufficiently high that a noise warning clause is required, which are described further in Section 8. Figure 5.2 shows the predicted road traffic noise level contours at 1.5 metres above grade throughout the Development.

7.2.4 Transportation Noise Mitigation

7.2.4.1 Building Envelope Construction

Predicted future traffic noise levels are sufficiently high that the building envelopes of Blocks 22 and Block 23 must be designed with sufficient sound insulation performance to achieve the sound level criteria of NPC-300 for indoor living spaces. Sound insulation performance for windows and walls are commonly specified in terms of Sound Transmission Class (STC) ratings. Higher STC ratings generally correspond to higher sound insulation performance.

STC rating requirements are dependent on the exterior noise levels, source type/spectrum, angles of incidence, sizes of façade components relative to the room size, and sound absorption characteristics of the subject indoor living space. Using these variables, STC rating requirements can be calculated using the method described in the National Research Council Canada's "Controlling Sound Transmission into Buildings" (BPN 56) publication. In accordance with NPC-300, STC rating requirements are calculated separately for road, rail, and air traffic noise, and are then combined on a logarithmic energy sum basis.

For the purpose of this Study, it is assumed that the building façades will be minimum 22 metres from Listowel Road, where the predicted noise levels are 69 during the day and 63 at night.

Given the preliminary nature of the design of the Development, detailed floor plans and building elevations are not yet available. Therefore, minimum STC rating requirements have been calculated based on assumed window-to-floor area ratios (i.e., total window area for a room divided by its floor area) of up to 60% for sleeping quarters and "intermediate" sound absorption characteristics. Other sensitive indoor living areas were assumed to have

window-to-floor area ratios of up to 45% and “hard” sound absorption characteristics. Note that if the actual window-to-floor area ratios are determined to exceed these values during detailed design, then window STC rating requirements would require an updated assessment to ensure acceptable indoor noise levels.

Based on the above assumptions, the minimum STC rating requirements at the worst-case façades are **STC-31** for fixed windows, **STC-29** for operable windows, **STC-28** for exterior doors, and **STC-39** for exterior walls. Other façades that have less direct exposure to road traffic noise have lower STC rating requirements.

An example glazing assembly capable of achieving the necessary STC performance values above is described in Table 7.9 below:

Table 7.9 *Example Window Assemblies and STC Ratings*

Window Assembly Short Form	Window Assembly Description
3-13AS-3	Two 3 mm thick monolithic glass panes separated by an air gap of 13 mm

STC ratings for windows are dependent on a variety of factors (e.g., frame design, seals, etc.), and can vary significantly between manufacturers. Therefore, the final STC rating requirements for the windows should be included in the specifications, and window suppliers should be required to submit laboratory test data with their shop drawings to demonstrate that the STC requirements will be achieved.

7.2.4.2 Ventilation

Predicted future traffic noise levels at Blocks 22 and Block 23 of the Development are sufficiently high that central air conditioning is required to be installed prior to occupancy for all residential dwellings. This will allow windows and doors to remain closed to help ensure that the indoor sound level limits of NPC-300 are met.

Predicted future traffic noise levels at the Blocks 06, 09 to 11, 13 to 18, 20, 21, and 24 of the Development are sufficiently high that, at a minimum, provisions must be made to enable installation of central air conditioning at the occupant's discretion (i.e., ductwork must be designed and installed to accommodate a future central air conditioning system installation). This will allow windows and doors to remain closed to help ensure that the indoor sound level limits of NPC-300 are met. Warning clause **Type C** would be required in the case that central air conditioning is not installed prior to occupancy. However, if central air conditioning systems are installed prior to occupancy, then warning clause **Type D** should be used instead. Warning clause wording is included in Section 7.2. Figure 5.4 indicates which warning clause for each Block.

7.2.4.3 Acoustic Barriers

Predicted future traffic noise levels at OLA-17, OLA-22, and OLA-23 are sufficiently high that acoustic barriers and/or warning clauses must be used. Given that the building and outdoor living area locations are not yet known at this time, it is recommended that acoustic barriers be evaluated at a later stage (e.g., Site Plan Application).

7.3 Stationary Noise Impact Assessment

7.3.1 Methodology

Detailed assessment of noise impacts from each of the facilities identified in Section 2 above has been carried out using CadnaA version 2025 (CadnaA). CadnaA is the industry standard for noise modelling of industrial and commercial facilities and is based on ISO standard 9613 2 “Acoustics – Attenuation of Sound during Propagation Outdoors”. CadnaA modelling assumptions used in this Study include:

- Reflection Order: A maximum reflection order of 2 was used to evaluate indirect noise impact from reflecting surfaces.
- Ground Absorption: The model was set up with conservative ground absorption coefficients of 0 for asphalt and water and 1.0 for absorptive areas of grass. The default ground absorption was set as 0.

- Receptor Elevation: POR receptor heights were modelled at the centre height of each storey, based on an assumed height of 3 metres per storey.
- Tonality: No tonal sources were identified.
- Building Surfaces: The buildings are modelled as reflective surfaces with an absorption coefficient of 0.21.

7.3.2 Stationary Noise Sources

Stationary noise source locations are identified in Figure 7.1. Source sound level data, operating conditions, and heights are included in Table 1 of Appendix D.

Based on telephone communications with Contour Directional Drilling Ltd. staff, up to three trucks enter/exit the site per worst-case hour, and there may be up to two trucks coupling with trailers per day (once per worst-case hour).

Noise emissions from heavy truck movements were modelled using reference sound levels published by the United States Federal Highway Administration.

Additionally, it is assumed that each of the three trucks idle for up to 3 minutes on site.

GHD notes that the above assumptions are conservative based on discussions with Contour Directional Drilling Ltd. staff, and would result in sound level exceedances at existing neighbouring dwellings. Figures will not include nighttime contours because Contour Directional Drilling does not operate during nighttime hours.

7.3.3 Results without Mitigation

7.3.3.1 Steady

Using the 3D model described above, predicted steady noise levels at the worst-case PORs of the Development, as shown in Figure 7.2, are summarized as follows in terms of 1-hour Leq:

Table 7.10 *Unmitigated Steady Noise Prediction Results*

POR ID	Predicted Noise Level (dBA)			Sound Level Limit (dBA)			Limits Exceeded?
	Day	Evening	Night	Day	Evening	Night	
Block 06 Worst-case Plane of Window (4.5 metres above grade [m A.G.], 1.2 m setback from property line) [POR-06a]	52	--	--	50	50	45	Yes
Block 06 Worst-case Plane of Window (4.5 m A.G., 5 m setback from property line) [POR-06b]	50	--	--	50	50	45	No
Block 06 Worst-case rear yard receptor (1.5 m A.G.) [POR-06c]	53	--	--	50	45	--	Yes
Block 14 Worst-case plane of window (7.5 m A.G.) [POR-14]	45	--	--	50	50	45	No

POR ID	Predicted Noise Level (dBA)			Sound Level Limit (dBA)			Limits Exceeded?
	Day	Evening	Night	Day	Evening	Night	
Block 18 Worst-case plane of window (7.5 m A.G.) [POR-18]	43	--	--	50	50	45	No
Block 24 Worst-case plane of window (4.5 m A.G. 1.2 m setback from property line) [POR-24a]	51	--	--	50	50	45	Yes
Block 24 Worst-case plane of window (4.5 m A.G. 5 m setback from property line) [POR-24b]	50	--	--	50	50	45	No

As seen above, predicted steady noise levels at the worst-case receptors of Block 06 and 24 exceed the applicable sound level limits of NPC-300 due to noise emissions associated with heavy truck operations at Contour Directional Drilling Ltd. Accordingly, GHD recommends noise mitigation as described in Section 7.3.4 below to help ensure compatibility.

Predicted noise levels at the other worst-case PORs of the Development are within the applicable sound level limits of NPC-300, and do not warrant mitigation. Figure 7.3 shows the predicted unmitigated steady noise contours.

7.3.3.2 Impulse

Using the 3D model described above, predicted impulse noise levels at the worst-case PORs of the Development are summarized as follows in terms of L_{LM} :

Table 7.11 *Unmitigated Impulse Noise Prediction Results*

POR ID	Predicted Noise Level (dBA)			Sound Level Limit (dBA)			Limits Exceeded?
	Day	Evening	Night	Day	Evening	Night	
Block 06 Worst-case Plane of Window (4.5 m A.G., 1.2 m setback from property line) [POR-06a]	83	--	--	80	80	75	Yes
Block 06 Worst-case Plane of Window (4.5 m A.G., 5 m setback from property line) [POR-06b]	79	--	--	80	80	75	No
Block 06 Worst-case rear yard receptor (1.5 m A.G.) [POR-06c]	84	--	--	80	80	--	Yes

POR ID	Predicted Noise Level (dBA)			Sound Level Limit (dBA)			Limits Exceeded?
	Day	Evening	Night	Day	Evening	Night	
Block 14 Worst-case plane of window (7.5 m A.G.) [POR-14]	69	--	--	80	80	75	No
Block 18 Worst-case plane of window (7.5 m A.G.) [POR-18]	68	--	--	80	80	75	No
Block 24 Worst-case plane of window (4.5 m A.G. 1.2 m setback from property line) [POR-24a]	69	--	--	80	80	75	No
Block 24 Worst-case plane of window (4.5 m A.G. 5 m setback from property line) [POR-24b]	69	--	--	80	80	75	No

As seen above, predicted impulse noise levels at the worst-case receptors of Block 06 exceed the applicable sound level limits of NPC-300 due to noise emissions associated with trailer coupling operations at Contour Directional Drilling Ltd. Accordingly, GHD recommends noise mitigation as described in Section 7.3.4 below to help ensure compatibility.

Predicted noise levels at the other worst-case PORs of the Development are within the applicable sound level limits of NPC-300, and do not warrant mitigation. Figure 7.4 shows the predicted unmitigated impulse noise contours.

7.3.4 Recommended Noise Mitigation

In order to achieve compliance with the sound level limits of NPC-300, GHD recommends the following noise controls for Block 06 and 24:

- The southernmost dwelling of Block 06 should be **setback minimum 5 metres** from the property boundary shared with Contour Directional Drilling Ltd. (374 Arthur Street South).
- The northernmost dwelling of Block 24 should be **setback minimum 5 metres** from the property boundary shared with Contour Directional Drilling Ltd. (374 Arthur Street South).
- A **1.8-metre-tall acoustic fence/barrier** should be constructed along the property boundary shared between Block 06 and Contour Directional Drilling Ltd. (374 Arthur Street South).

An acoustic barrier may vary in construction, provided it meets the following requirements:

- A minimum surface density of 20 kg/m² or meet compliance with requirement and certification CAN/CSA-Z107.9-00 (R2004) – Standard for Certification of Noise Barriers (Reaffirmed 2004).
- Be structurally sound and appropriately designed to withstand wind and snow loading as applicable.
- Constructed without any cracks or surface gaps at grade. If gaps are necessary for drainage purposes they should be minimized to mitigate the impact on the acoustical performance of the barrier.

7.3.5 Results with Mitigation

7.3.5.1 Steady

Results of the worst-case POR are shown in Appendix G. Using the 3D model described above, including the mitigation described in Section 7.3.4, predicted steady noise levels at the worst-case PORs of the Development are summarized as follows in terms of 1-hour Leq:

Table 7.12 Mitigated Steady Noise Prediction Results

POR ID	Predicted Noise Level (dBA)			Sound Level Limit (dBA)			Limits Exceeded?
	Day	Evening	Night	Day	Evening	Night	
Block 06 Worst-case Plane of Window (4.5 m A.G., 5 m setback from property line) [POR-06b]	50	--	--	50	50	45	No
Block 06 Worst-case rear yard receptor (1.5 m A.G.) [POR-06c]	45	--	--	50	45	--	No
Block 24 Worst-case Plane of Window (4.5 m A.G., 5 m setback from property line) [POR-24b]	50	--	--	50	50	45	No

As seen above, predicted steady noise levels with the recommended noise mitigation are within the applicable sound level limits of NPC-300, and are therefore acceptable. Figure 7.5 shows the predicted mitigated steady noise contours.

7.3.5.2 Impulse

Using the 3D model described above, including the mitigation described in Section 7.3.4, predicted impulse noise levels at the worst-case PORs of the Development are summarized as follows in terms of L_{LM}:

Table 7.13 Mitigated Impulse Noise Prediction Results

POR ID	Predicted Noise Level (dBA)			Sound Level Limit (dBA)			Limits Exceeded?
	Day	Evening	Night	Day	Evening	Night	
Block 06 Worst-case Plane of Window (4.5 m A.G., 5 m setback from property line) [POR-06b]	79	--	--	80	80	75	No
Block 06 Worst-case rear yard receptor (1.5 m A.G.) [POR-06c]	74	--	--	80	80	--	No
Block 24 Worst-case plane of window (4.5 m A.G. 5 m setback from property line) [POR-24b]	69	--	--	80	80	75	No

As seen above, predicted impulse noise levels with the recommended noise mitigation are within the applicable sound level limits of NPC-300, and are therefore acceptable. Figure 7.6 shows the predicted mitigated impulse noise contours

7.4 Noise Impacts from the Development

7.4.1 Outdoor Noise Impacts

Base building cooling and ventilation systems for the Development have the potential to result in noise impacts on noise sensitive spaces within the Development itself and at existing residential uses surrounding the Site. The specific equipment selections are not available at the time of writing; therefore, it is anticipated that noise emissions from HVAC equipment will be evaluated as part of the detailed design of the Development.

It is expected that the mechanical heating and cooling systems will include residential air conditioners or heat pumps located in the rear yards or balconies of each residence. Such equipment must comply with the sound level limits of NPC-216 "Residential Air Conditioners". Compliance is typically achieved with appropriately selected commercially available equipment, and with selection of appropriate locations (i.e., maximize distances from neighbouring dwellings' windows).

Performance specifications of the above controls is dependent on equipment locations and sound power levels, which may vary. Therefore, the full scope and details of the required noise mitigation should be evaluated during detailed design.

7.4.2 Indoor Noise Impacts

Mechanical equipment and other building services also have the potential to cause annoyance due to noise and vibration transmission to residences. The American Society of Heating, Refrigerating, and Air conditioning Engineers (ASHRAE) guidelines specify acceptable noise levels from such equipment. Specification of noise controls (e.g., silencers, floating concrete slabs, acoustic ceilings, vibration isolators) to achieve these criteria is typically completed as part of the detailed building design, once equipment selections are made and floor layouts are more developed.

The Ontario Building Code stipulates minimum STC and apparent sound transmission class (ASTC) rating requirements for demising partitions separating residential suites from other spaces inside the building. For demising partitions separating suites from elevator shafts or garbage chutes, constructions meeting a minimum STC-55 rating must be used. For demising partitions separating suites from any other space in the building, constructions meeting a minimum STC-50 rating must be used. Suite demising partitions must also achieve a minimum rating of ASTC-47.

8. Recommendations

8.1 Building Setbacks

As mentioned in Section 7.3.4, GHD recommends that the southernmost dwelling of Block 06 be **setback minimum 5 metres** from the property boundary shared with Contour Directional Drilling Ltd. (374 Arthur Street South). The northernmost dwelling of Block 24 be **setback minimum 5 metres** from the property boundary shared with Contour Directional Drilling Ltd. (374 Arthur Street South).

This will help to ensure that stationary noise levels from Contour Directional Drilling Ltd. remain within the applicable sound level limits of NPC-300.

8.2 Building Envelope Construction

GHD recommends that the building envelope construction assemblies be selected to achieve **STC-31** for fixed glazing, **STC-29** for operable windows, **STC-28** for exterior doors, and **STC-39** for exterior walls, based on the assumptions described in Section 7.2.4.1. The STC rating requirements should be updated prior to issuance of building permits, based on the locations of the proposed buildings and the detailed floor plans and elevation drawings.

8.3 Ventilation

Central air conditioning is required to be installed prior to occupancy for Blocks 22 and 23. This will allow windows and doors to remain closed to help ensure that the indoor sound level limits of NPC-300 are met.

Predicted future traffic noise levels at the façades of Blocks 06, 09 – 11, 13 – 18, 20, 21, and 24 are sufficiently high that, at a minimum, provisions must be made to enable installation of central air conditioning at the occupant's discretion (i.e., ductwork must be designed and installed to accommodate a future central air conditioning system installation). This will allow windows and doors to remain closed to help ensure that the indoor sound level limits of NPC-300 are met.

Warning clause **Type C** would be required in the case that central air conditioning is not installed prior to occupancy. However, if central air conditioning systems are installed prior to occupancy, then warning clause **Type D** should be used instead. Block 22 and 23 must have warning clause D. Warning clause wording is included in Section 8.5.

8.4 Acoustic Barriers

GHD recommends the following acoustic barriers:

- Barrier 1: Height of 1.8 m; total length of approximately 42 m to shield the backyards of Block 06 from stationary noise emissions from Contour Directional Drilling Ltd.
- Additional acoustic barriers are expected to be required for Blocks 17, 22, and 23 to mitigate road traffic noise exceedances. The design of those barriers should be evaluated at a later stage once building footprints and outdoor living areas are defined (e.g., Site Plan Application stage).

The acoustic barriers may vary in construction so long as they meet the following requirements:

- A minimum surface density of 20 kg/m² or meet compliance with requirement and certification CAN/CSA-Z107.9-00 (R2004) – Standard for Certification of Noise Barriers (Reaffirmed 2004).
- Be structurally sound and appropriately designed to withstand wind and snow loading as applicable.
- Constructed without any cracks or surface gaps at grade. If gaps are necessary for drainage purposes they should be minimized to mitigate the impact on the acoustical performance of the barrier.

8.5 Warning Clauses

The following warning clauses are recommended to be included in agreements of Offers of Purchase and Sale, lease/rental agreements, and condominium declarations for the following residential dwellings of the Development as specified in Figure 5.4:

Applicable to Blocks 09 - 11, 13, 15-16, 18, 20, 21 and 24:

Warning Clause Type A: "Purchasers/tenants are advised that sound levels due to increasing road traffic may occasionally interfere with some activities of the dwelling occupants as the sound levels exceed the sound level limits of the Municipality and the Ministry of the Environment, Conservation and Parks."

Potentially applicable to Blocks 17, 22, and 23, dependent on the road traffic noise levels achieved with inclusion of acoustic barriers:

Warning Clause Type B: “Purchasers/tenants are advised that despite the inclusion of noise control features in the development, sound levels due to increasing road traffic may on occasions interfere with some activities of the dwelling occupants as the sound levels exceed the sound level limits of the Municipality and the Ministry of the Environment, Conservation and Parks.”

Applicable to Blocks 06, 09 – 11, 13 – 18, 20, 21 and 24 only if central air conditioning is not installed prior to occupancy:

Warning Clause Type C: “This dwelling unit has been designed with the provision for adding central air conditioning at the occupant’s discretion. Installation of central air conditioning by the occupant in low and medium density developments will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment, Conservation and Parks.”

Applicable Blocks 06, 09 – 11, 13 – 18, 20, 21 and 24 only if central air conditioning is installed prior to occupancy. Block 22 and Block 23 must have central air conditioning installed prior to occupancy:

Warning Clause Type D: “This dwelling unit has been supplied with a central air conditioning system which will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment, Conservation and Parks.”

9. Conclusions

The Study concludes that the proposed development is feasible and will not be restricted by the surrounding noise and vibration impact exposures, provided that the proposed development adheres to the noise mitigation recommended in this Study. The recommended noise mitigation at the Development consists of building envelope construction requirements, provisions for and installation of central air conditioning, noise warning clauses, and acoustic barriers.

The Development is not anticipated to affect the ability of the nearby industrial/commercial facilities to comply with the sound level limits of the MECP.

10. References

The Corporation of the Township of Woolwich By-law No. 47-2023, *Noise (Noise By-Law)*

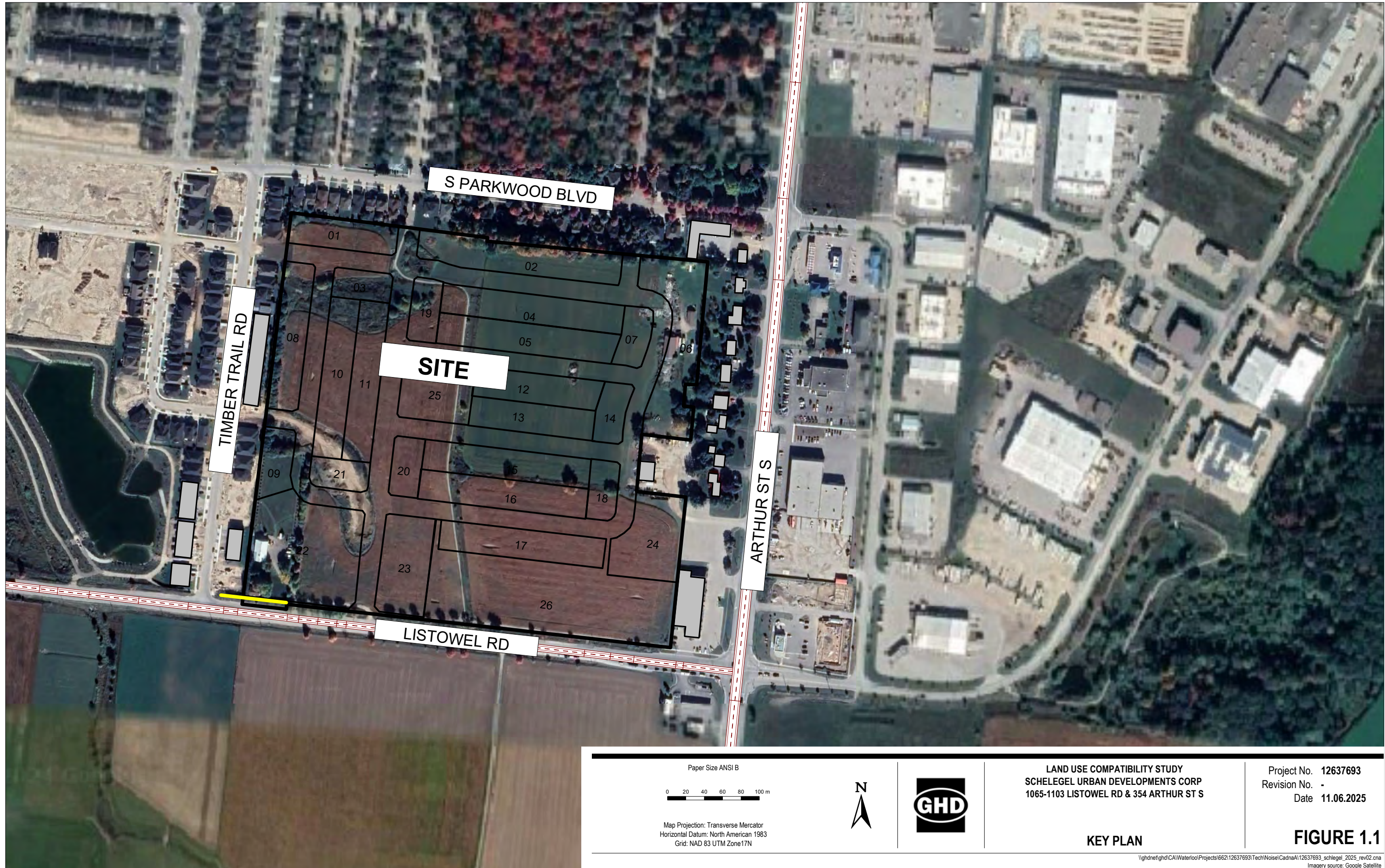
Ontario Ministry of Environment, Conservation and Parks (MECP, 1995), Guideline D-1: *Land Use Compatibility*

Ontario Ministry of Environment, Conservation and Parks (MECP, 1995), Guideline D-6: *Compatibility Between Industrial Facilities and Sensitive Land Uses*

Ontario Ministry of Environment, Conservation and Parks (MECP, 1993), Publication NPC-216: *Residential Air Conditioning Devices*

Ontario Ministry of Environment, Conservation and Parks (MECP, 2013), Publication NPC-300: *Environmental Noise Guideline: Stationary and Transportation Sources – Approval and Planning*

Ontario Ministry of Environment, Conservation and Parks (MECP, 2021), Ontario Regulation 1/17: *Environmental Activity and Sector Registry – Limits and other requirements for activities with air emissions*



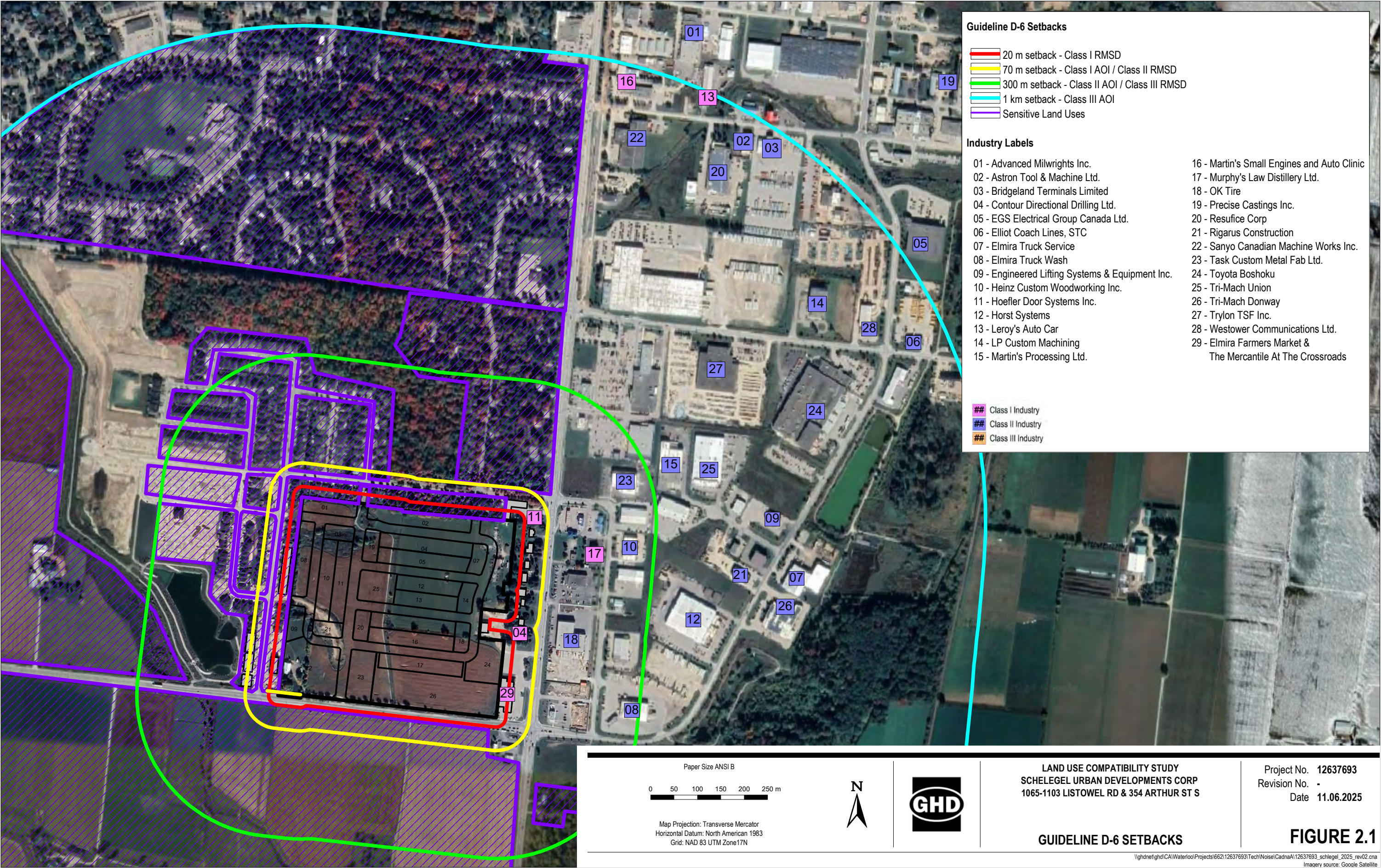
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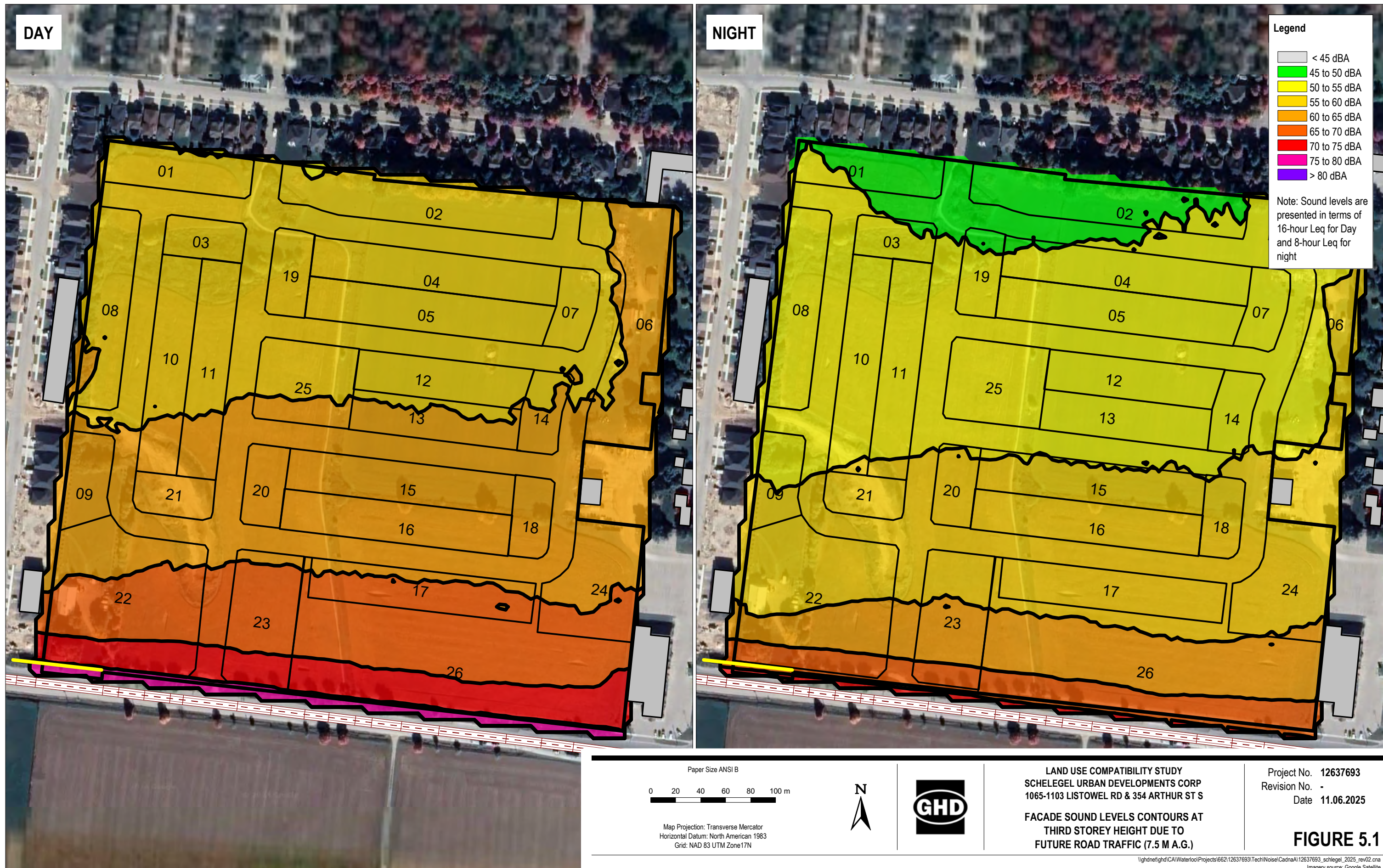
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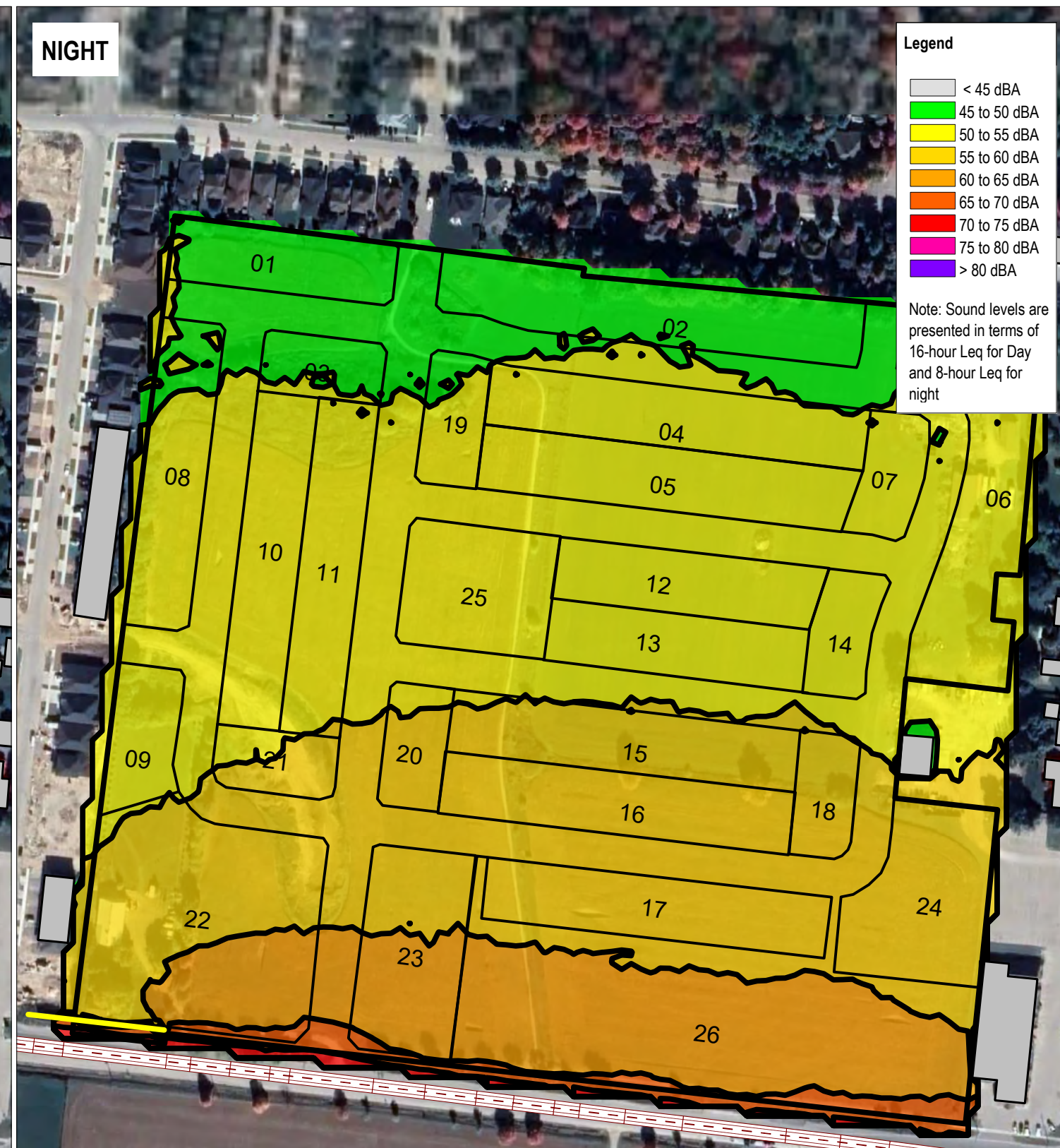
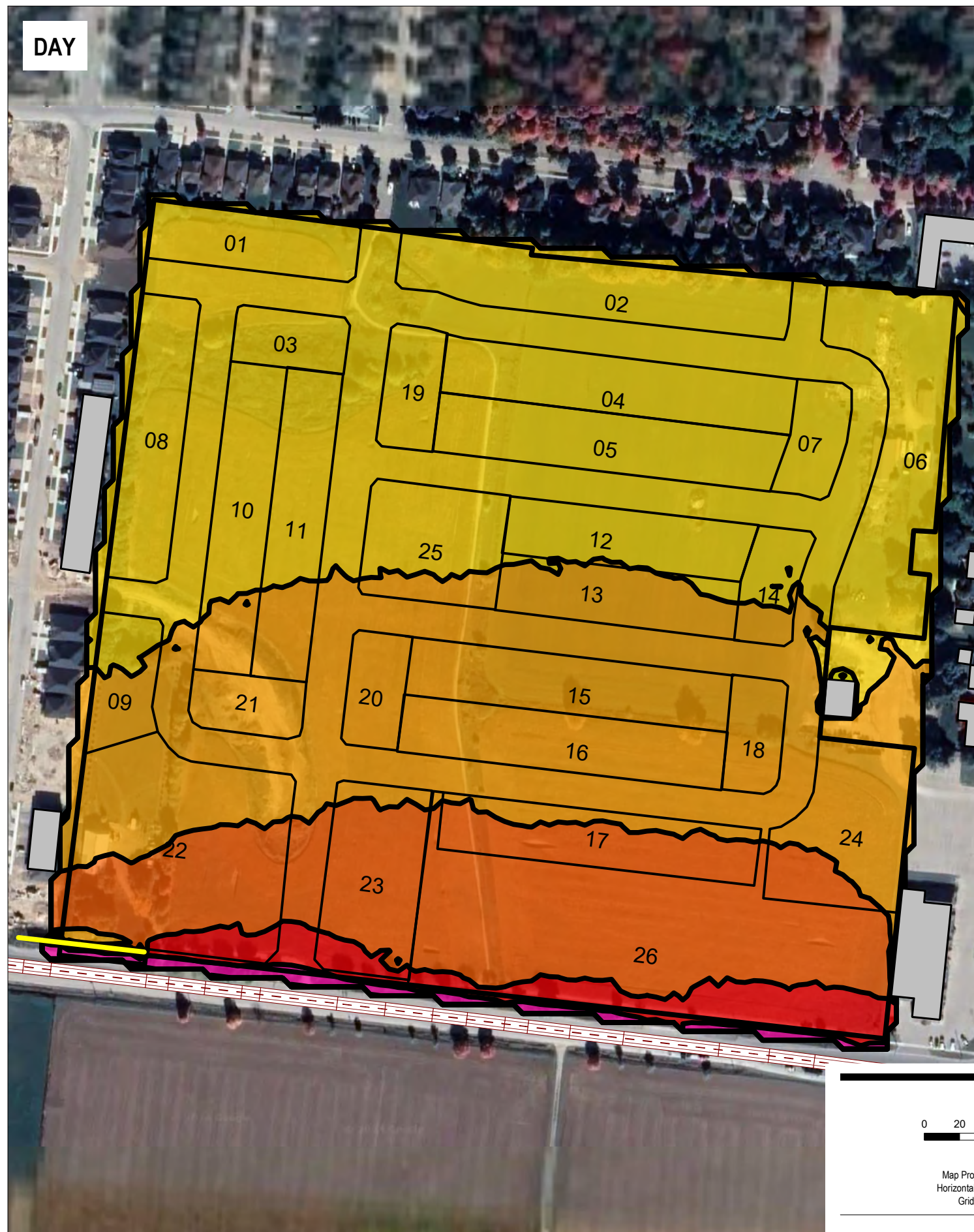


Paper Size ANSI B 0 20 40 60 80 100 m Map Projection: Transverse Mercator Horizontal Datum: North American 1983 Grid: NAD 83 UTM Zone17N	N GHD	LAND USE COMPATIBILITY STUDY SCHELEGEL URBAN DEVELOPMENTS CORP 1065-1103 LISTOWEL RD & 354 ARTHUR ST S MAP OF GROUND ABSORPTION COEFFICIENTS	Project No. 12637693 Revision No. - Date 11.06.2025 FIGURE 1.2
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Imagery source: Google Satellite



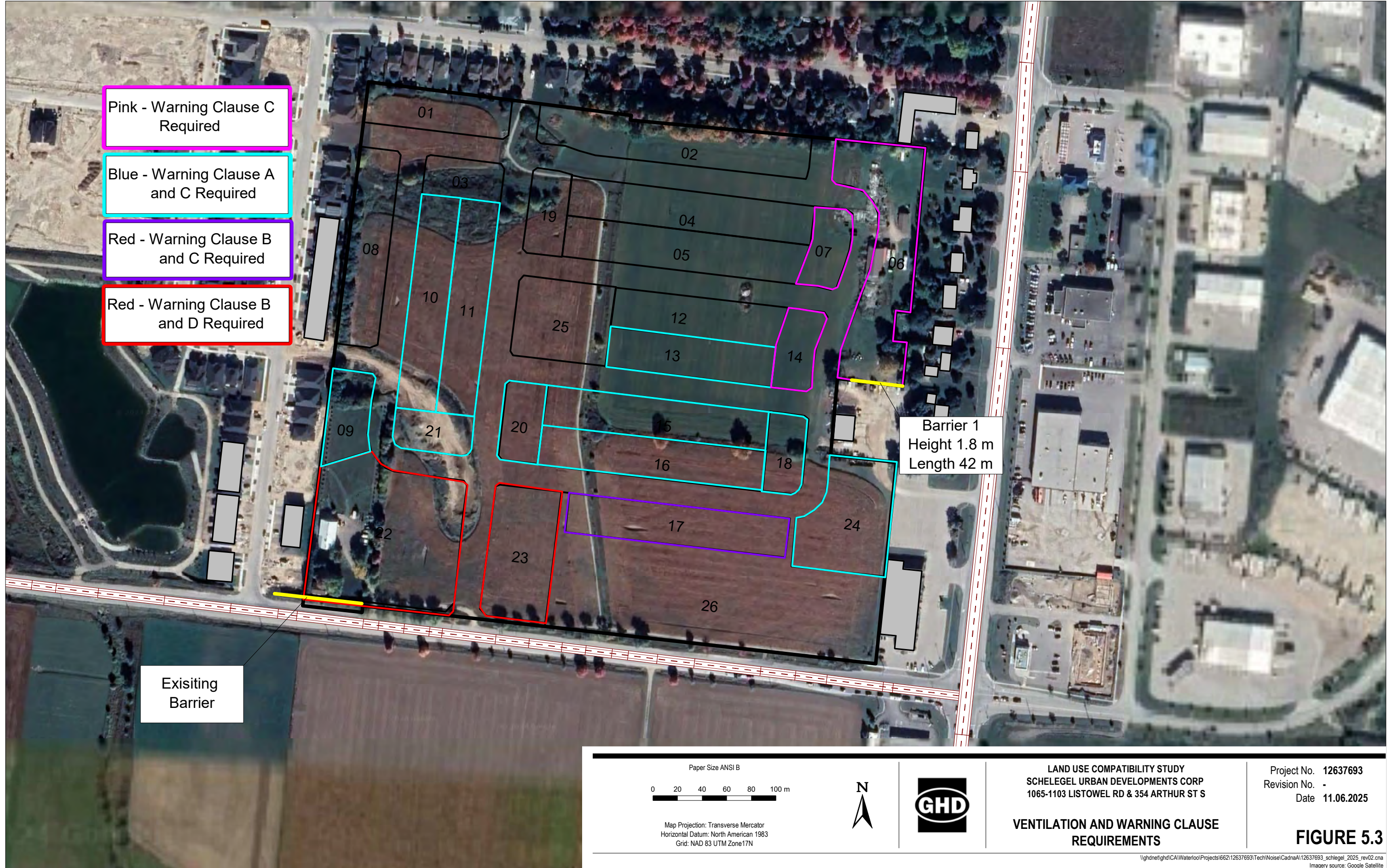


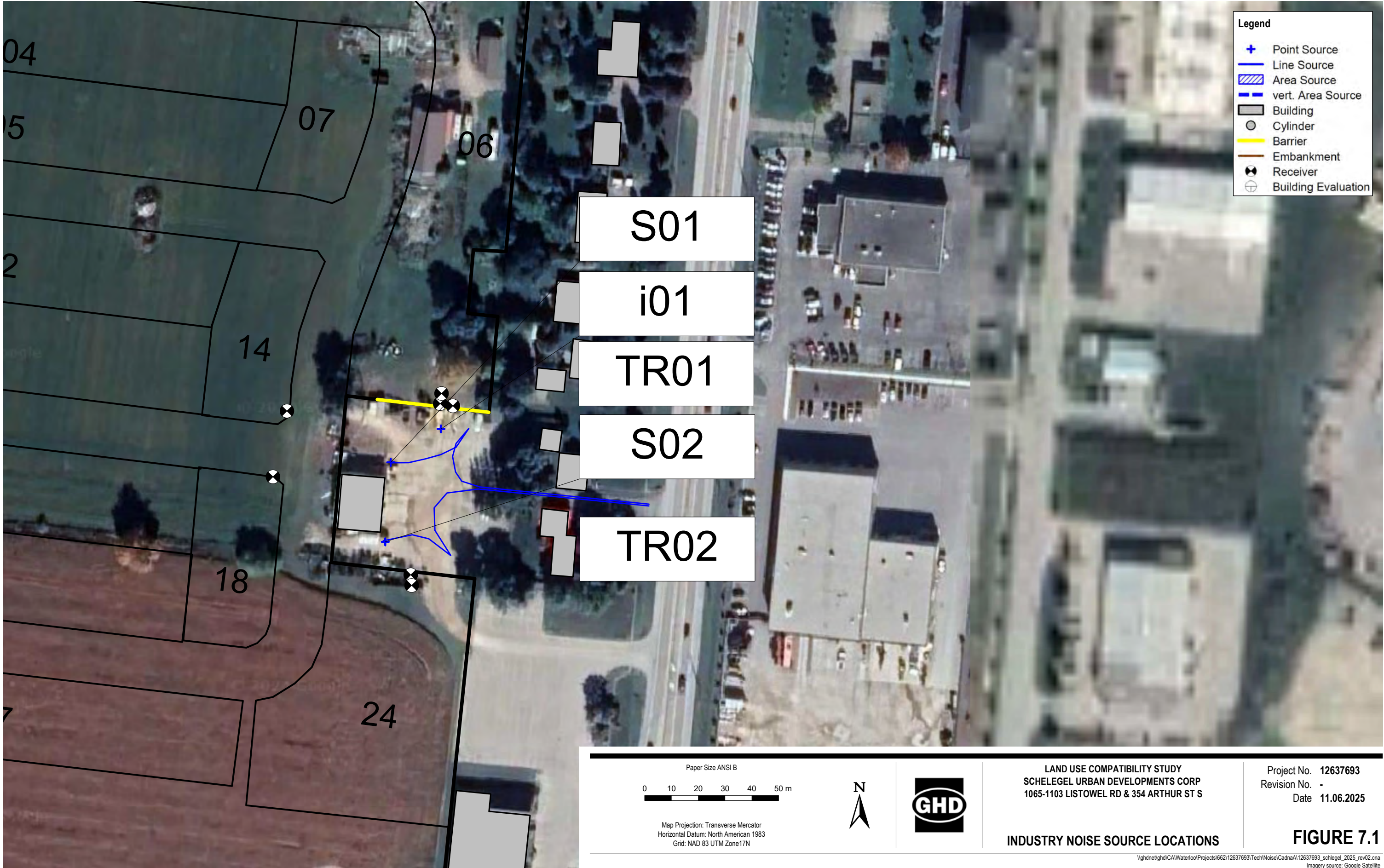


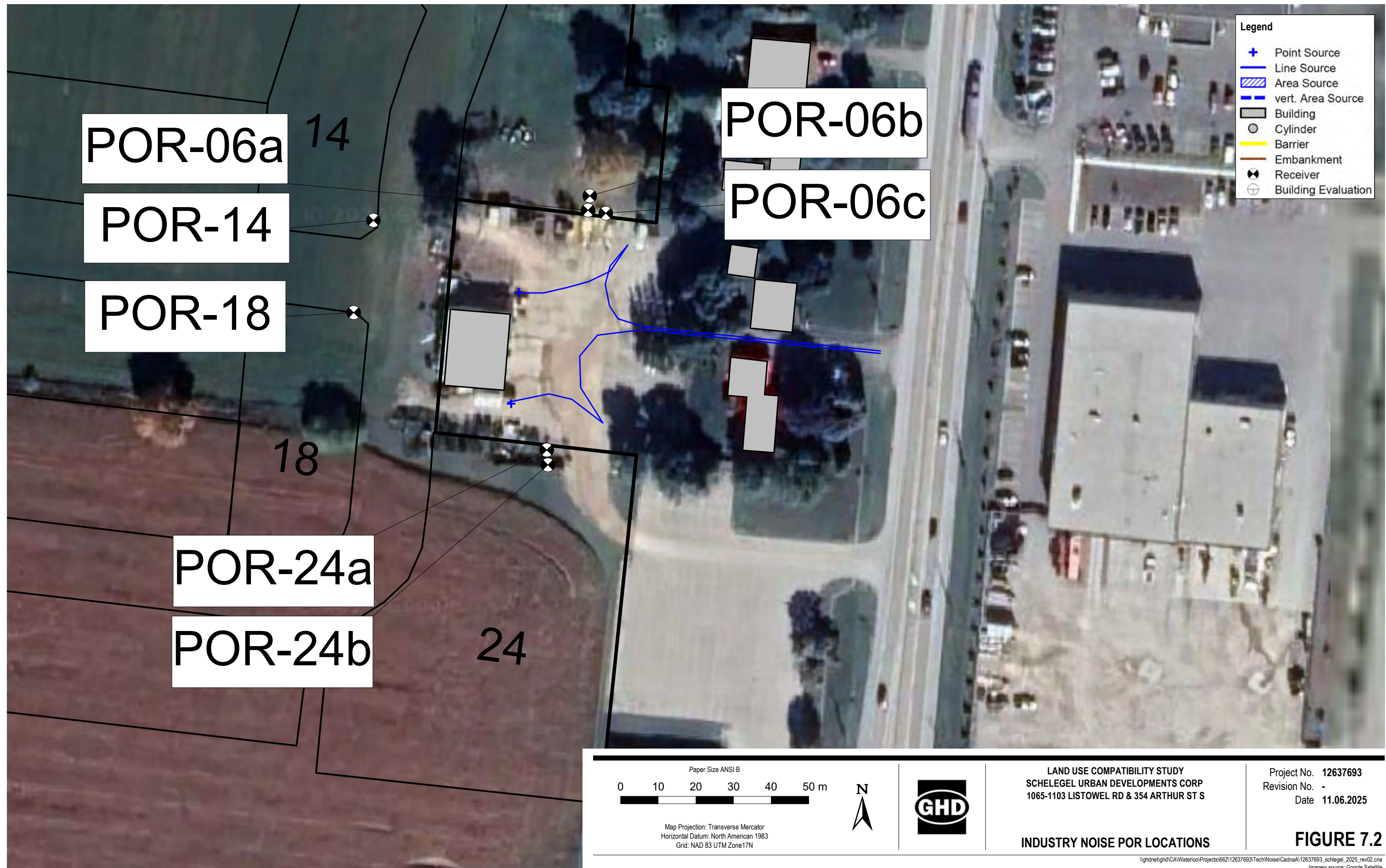
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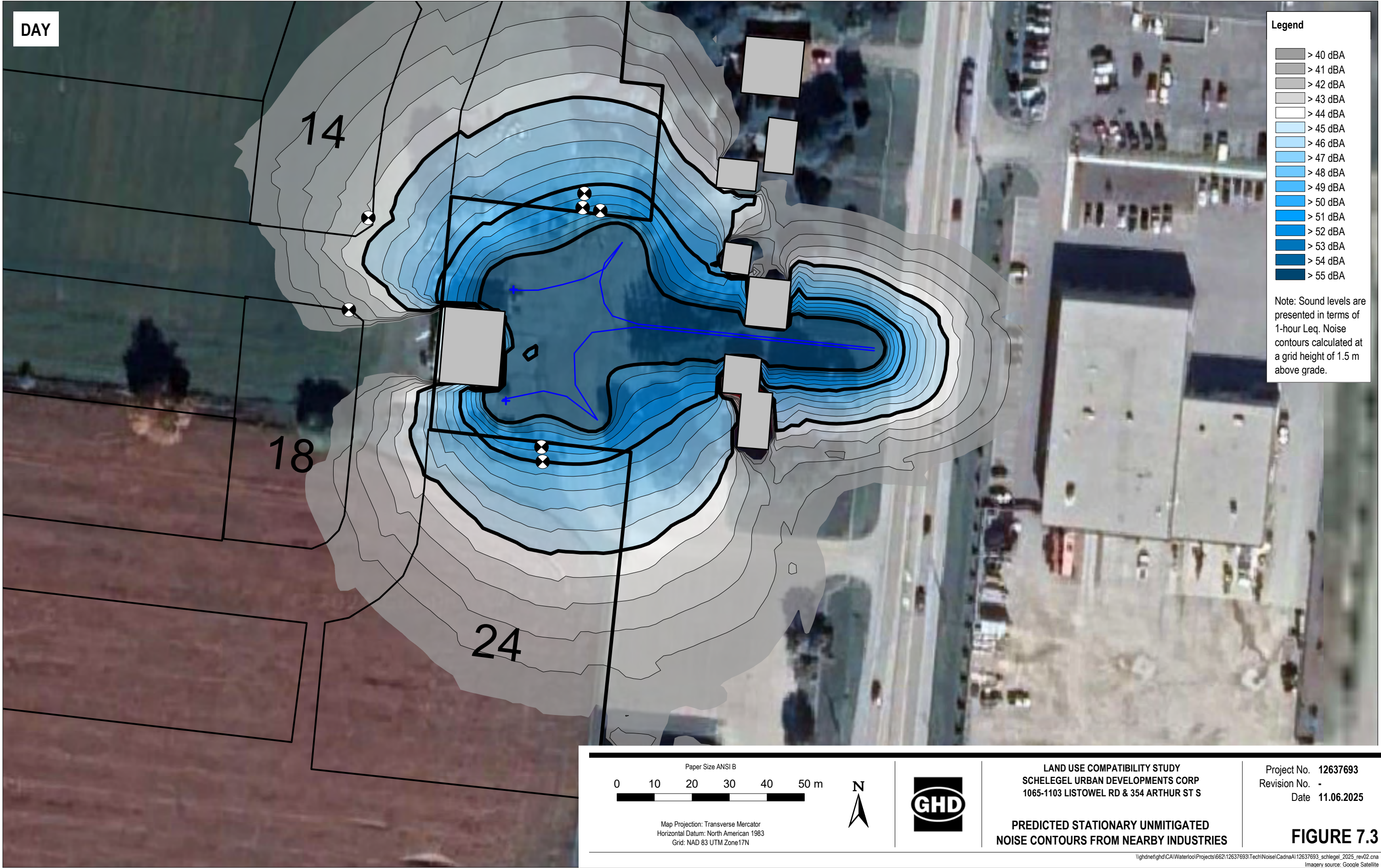
- < 45 dBA
- 45 to 50 dBA
- 50 to 55 dBA
- 55 to 60 dBA
- 60 to 65 dBA
- 65 to 70 dBA
- 70 to 75 dBA
- 75 to 80 dBA
- > 80 dBA

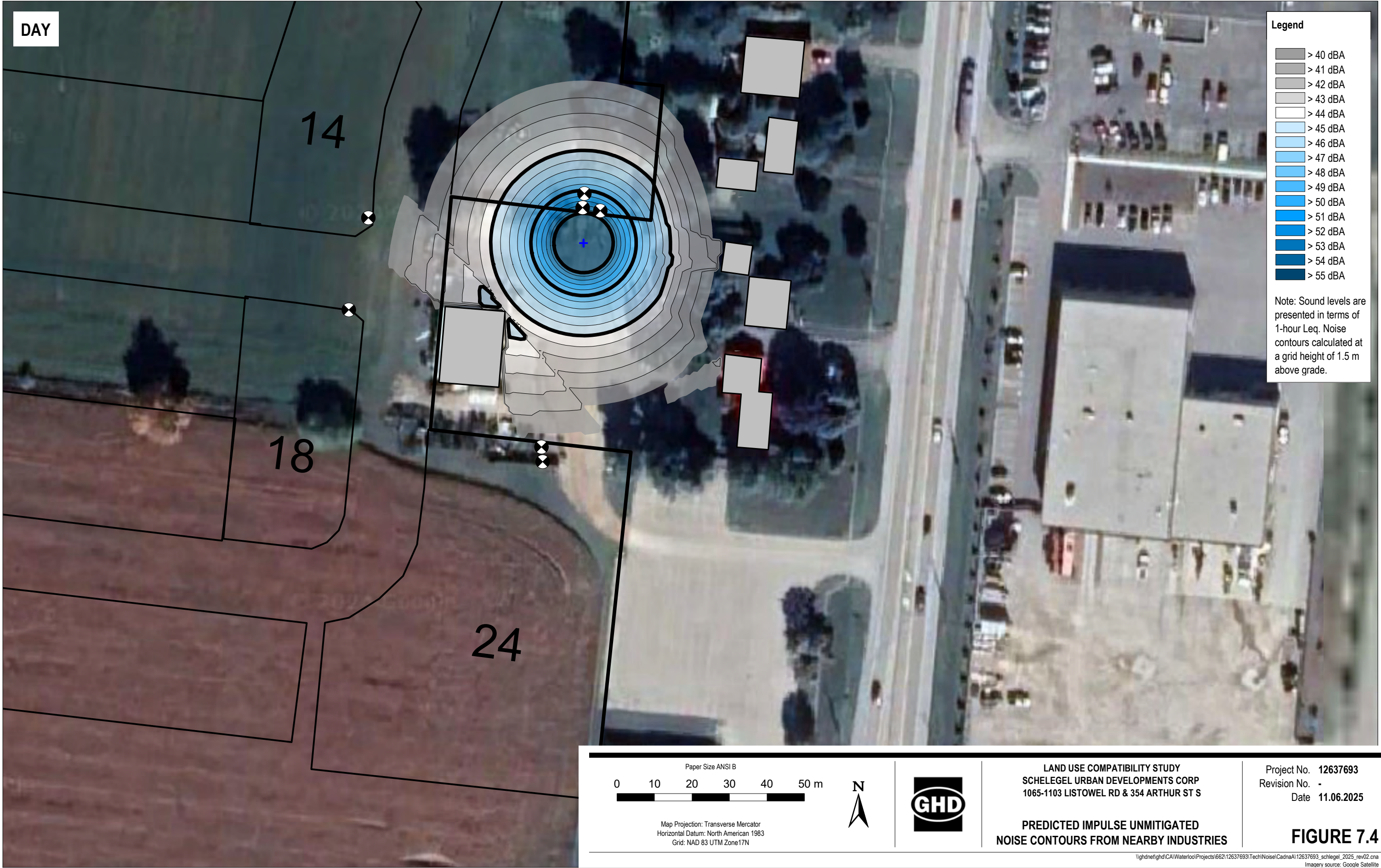
Note: Sound levels are presented in terms of 16-hour Leq for Day and 8-hour Leq for night









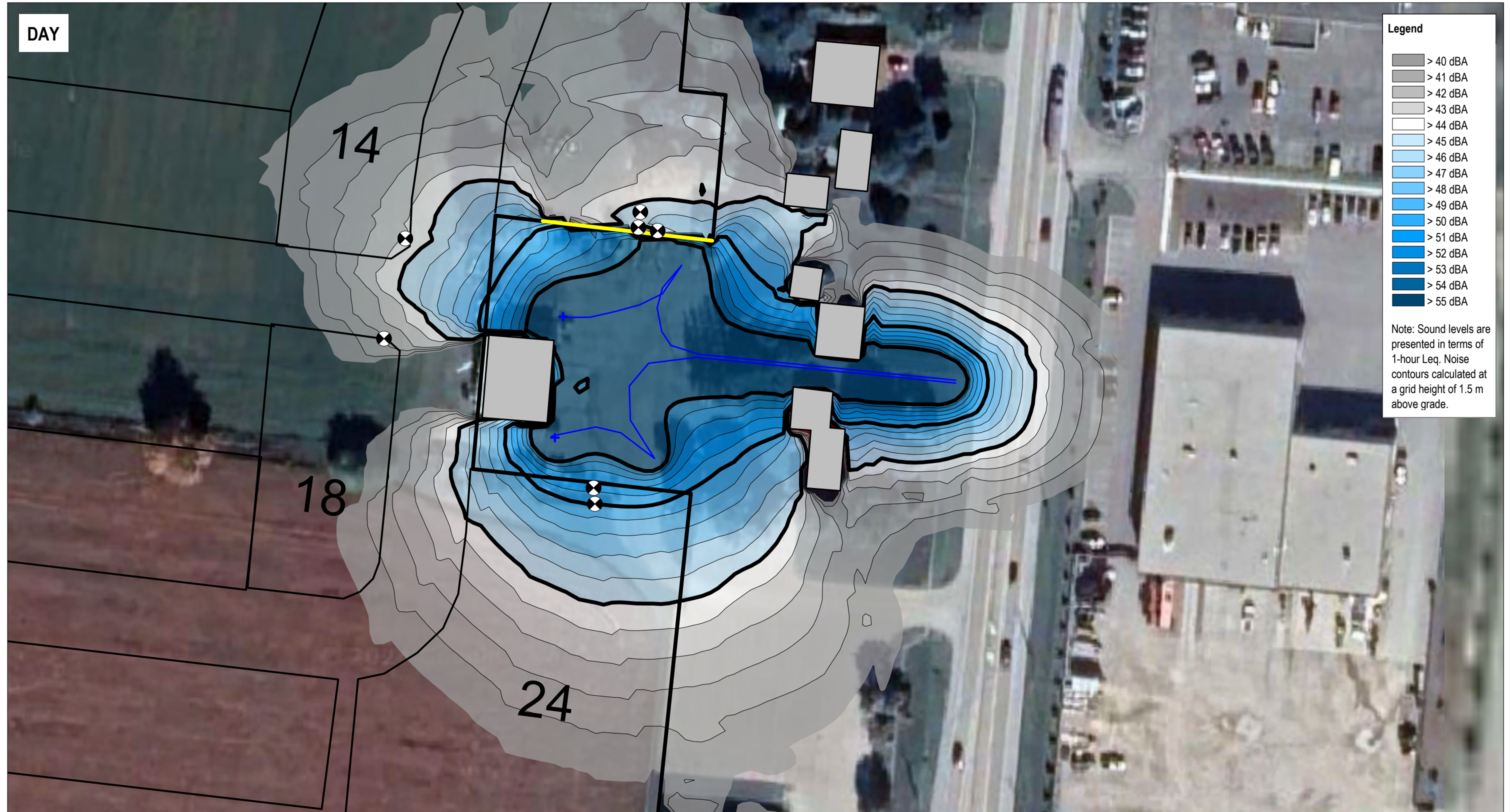


DAY

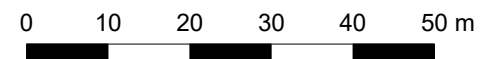
Legend

- > 40 dBA
- > 41 dBA
- > 42 dBA
- > 43 dBA
- > 44 dBA
- > 45 dBA
- > 46 dBA
- > 47 dBA
- > 48 dBA
- > 49 dBA
- > 50 dBA
- > 51 dBA
- > 52 dBA
- > 53 dBA
- > 54 dBA
- > 55 dBA

Note: Sound levels are presented in terms of 1-hour Leq. Noise contours calculated at a grid height of 1.5 m above grade.



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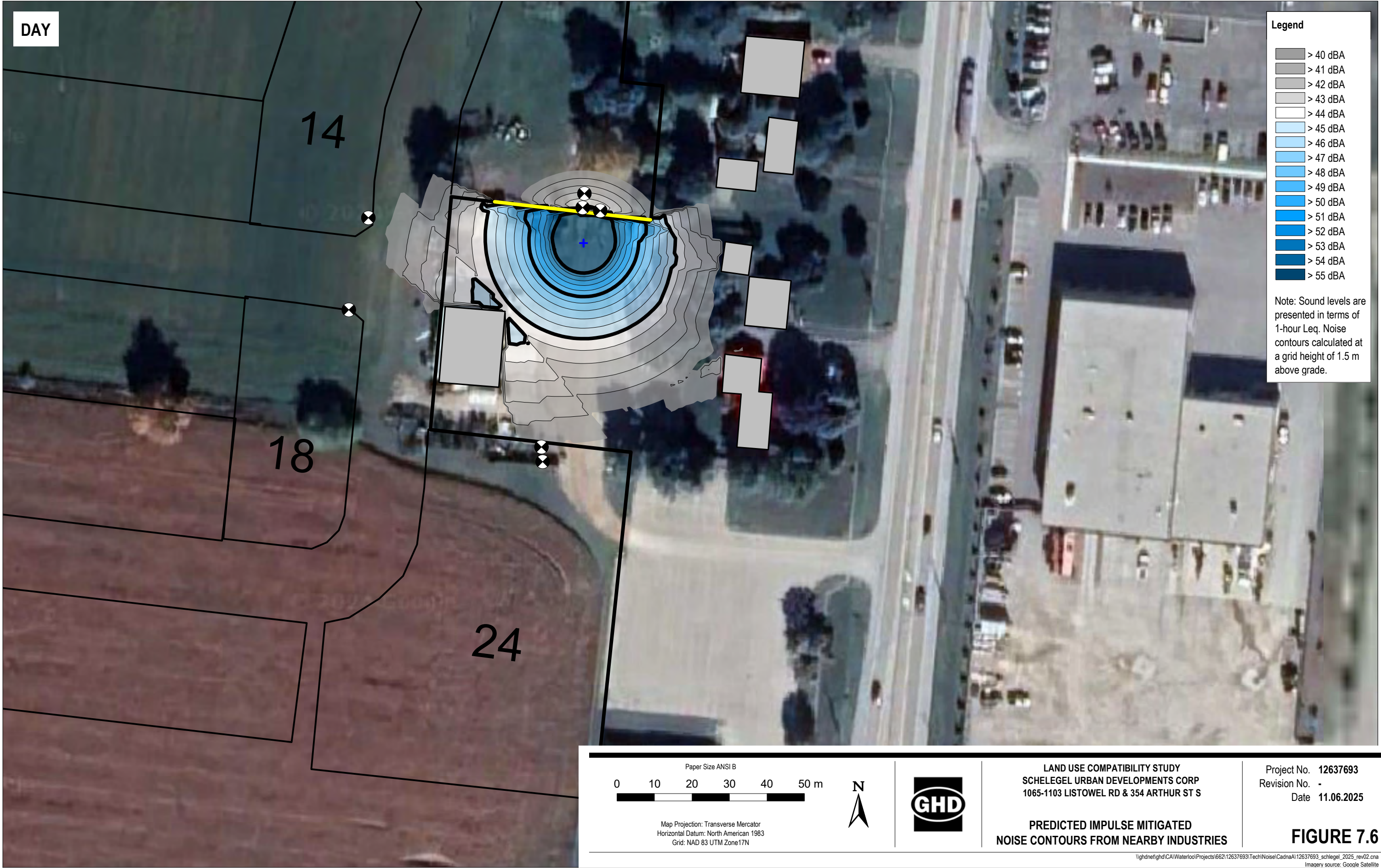
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Horizontal Datum: North American 1983
Grid: NAD 83 UTM Zone17N

LAND USE COMPATIBILITY STUDY
SCHELEGEL URBAN DEVELOPMENTS CORP
1065-1103 LISTOWEL RD & 354 ARTHUR ST S

PREDICTED STATIONARY MITIGATED
NOISE CONTOURS FROM NEARBY INDUSTRIES

Project No. 12637693
Revision No. -
Date 11.06.2025

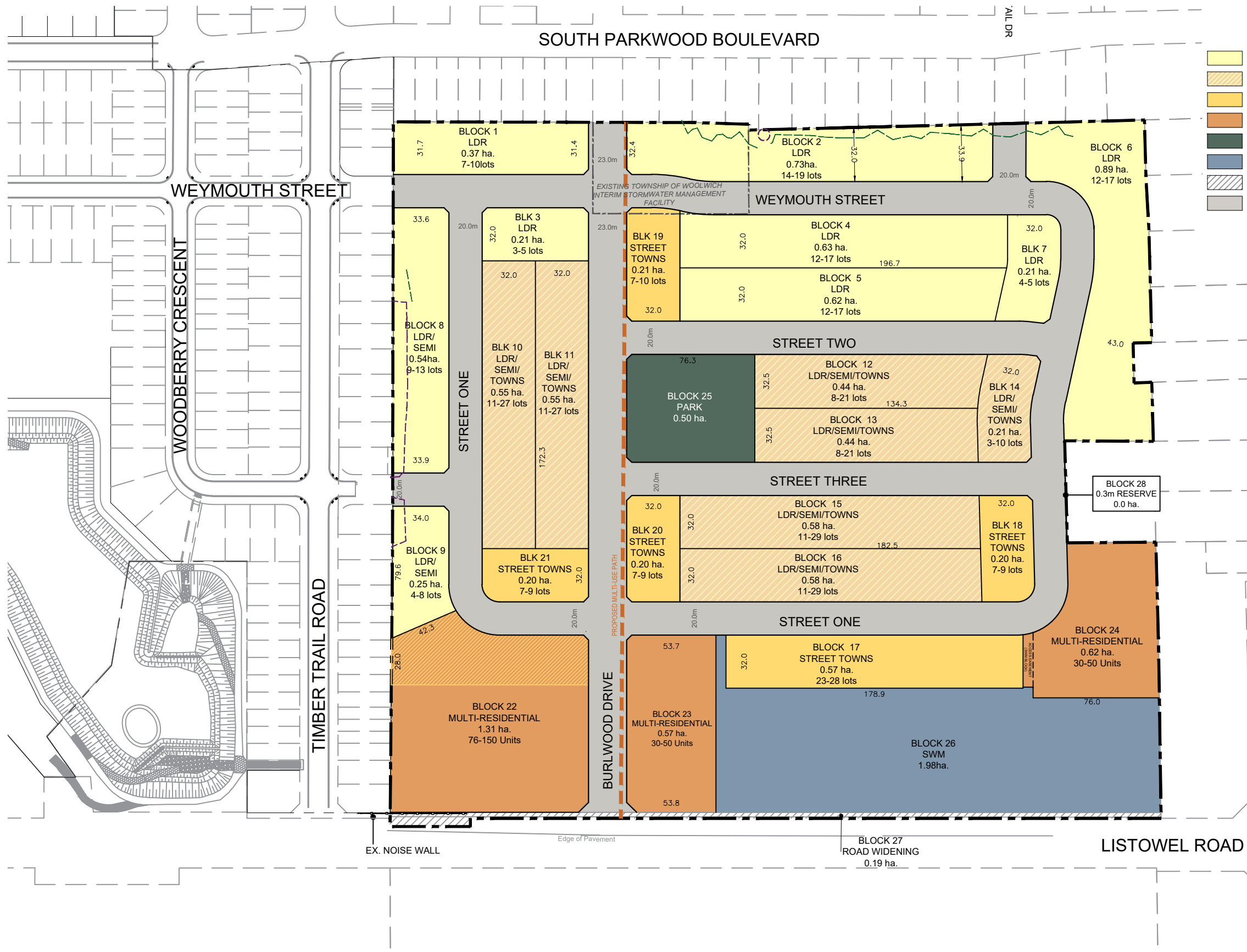
FIGURE 7.5



Appendices

Appendix A

Zoning Map and Site Plan



LAND USE SCHEDULE			
USE	BLOCKS	AREA	UNITS
LOW DENSITY RESIDENTIAL	1-9	4.45	77-111
LOW DENSITY/SEMI/TOWNS	10-16	4.17	63-164
STREET TOWNHOUSE	17-21	1.38	51-65
MULTI-RESIDENTIAL	22-24	2.1	136-250
PARK	25	0.50	
STORMWATER MANAGEMENT	26	1.98	
ROAD WIDENING	27	0.19	
ROW		4.50	
TOTAL		18.85	327-590

Tree Root Line

Tree Drip Line

DEVELOPMENT CONCEPT

ELMIRA SOUTHWOOD SUBDIVSION, WOOLWICH

0204060100

Meters

NOTE: This concept should be considered as a preliminary demonstration model that illustrates an 'order of magnitude' development scenario for the site. The number of units, floor area and parking supply are approximate and subject to more detailed design as well as municipal planning approvals.

Scale 1: 2,500 | April 23, 2025 | Project No. 22266 | Drawn By: MN



Appendix B

Sample STAMSON Calculation

STAMSON 5.0 SUMMARY REPORT Date: 14-11-2024 11:26:21
 MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: schleg4.te Time Period: Day/Night 16/8 hours
 Description: Block 22, 7.5m AG, 22 metres north of Listowel

Road data, segment # 1: Listowel (day/night)

Car traffic volume	:	10110/1123	veh/TimePeriod
Medium truck volume	:	416/46	veh/TimePeriod
Heavy truck volume	:	1354/150	veh/TimePeriod
Posted speed limit	:	80	km/h
Road gradient	:	0	%
Road pavement	:	1	(Typical asphalt or concrete)

Data for Segment # 1: Listowel (day/night)

Angle1	Angle2	:	0.00 deg	90.00 deg
Wood depth	:	0	(No woods.)	
No of house rows	:	0 / 0		
Surface	:	2	(Reflective ground surface)	
Receiver source distance	:	20.84 / 20.84	m	
Receiver height	:	7.50 / 7.50	m	
Topography	:	1	(Flat/gentle slope; no barrier)	
Reference angle	:	0.00		

Road data, segment # 2: Arthur (day/night)

Car traffic volume	:	19353/2150	veh/TimePeriod
Medium truck volume	:	412/46	veh/TimePeriod
Heavy truck volume	:	845/94	veh/TimePeriod
Posted speed limit	:	60	km/h
Road gradient	:	0	%
Road pavement	:	1	(Typical asphalt or concrete)

Data for Segment # 2: Arthur (day/night)

Angle1	Angle2	:	-90.00 deg	90.00 deg
Wood depth	:	0	(No woods.)	
No of house rows	:	0 / 0		
Surface	:	2	(Reflective ground surface)	
Receiver source distance	:	388.25 / 388.25	m	
Receiver height	:	7.50 / 7.50	m	
Topography	:	1	(Flat/gentle slope; no barrier)	
Reference angle	:	0.00		

Result summary (day)

	! source	! Road	! Total
	! height	! Leq	! Leq
	! (m)	! (dBA)	! (dBA)
1.Listowel	! 1.84	! 69.14	! 69.14
2.Arthur	! 1.42	! 56.37	! 56.37
		Total	69.36 dBA

Result summary (night)

	! source	! Road	! Total
	! height	! Leq	! Leq
	! (m)	! (dBA)	! (dBA)
1.Listowel	! 1.84	! 62.60	! 62.60
2.Arthur	! 1.42	! 49.84	! 49.84
		Total	62.82 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 69.36
(NIGHT): 62.82

Appendix C

Traffic Data

Region of Waterloo AADT Forecast for Noise Studies		
1. Development/Location	1065 Listowel Road, Woolwich	
2. Current AADT (2024)	Listowel Rd	Arthur St
	9,400	19,700
3. Forecast AADT (2034)	Listowel Rd	Arthur St
	13,200	22,900
4. Commercial Vehicle Rates	Listowel Rd	Arthur St
% Medium Trucks	3.5%	2.0%
% Heavy Trucks	11.4%	4.1%
5. Posted Speed Limit	Listowel Rd	Arthur St
	80 km/h	60 km/h
6. Day/Night Splits	Regional Standard 90/10 Day/Night Split	
7. Expiry	31-Dec-2025	
8. Notes	This forecast is intended for the purpose of carrying out a noise study for 1065 Listowel Road in the Township of Woolwich. The above AADTs represents forecasted traffic volumes on Listowel Road and Arthur Street South. This forecast remains valid up to the date indicated above. The Region of Waterloo should be contacted for an updated forecast if there are plans to use this forecast beyond the above validity period.	

Appendix D

Stationary Noise Model Information

Table D.1

Noise Source Sound Level Summary
SCHLEGEL URBAN DEVELOPMENTS CORP.
1065-1103 LISTOWEL ROAD AND 354 ARTHUR STREET SOUTH, ELMIRA, ONTARIO

Cadna A ID	Noise Source Description		1/1 Octave Band Data									Unadjusted Total Sound Power Level	Tonal Penalty Assessment	Relative Height	Operating Time	Vehicle Volumes	Speed Reference/Comments
			32	63	125	250	500	1000	2000	4000	8000						
S01	Contour Drilling - Idling Truck	PWL (dB)	84.0	87.0	91.0	90.0	87.0	83.0	80.0	73.0	66.0	96					
		A-weighted correction	-39.4	-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1						
		PWL (dBA)	44.6	60.8	74.9	81.4	83.8	83.0	81.2	74.0	64.9	89	No	0	2.0	6/0/0	— GHD Reference Spectra
S02	Contour Drilling - Idling Truck	PWL (dB)	84.0	87.0	91.0	90.0	87.0	83.0	80.0	73.0	66.0	96					
		A-weighted correction	-39.4	-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1						
		PWL (dBA)	44.6	60.8	74.9	81.4	83.8	83.0	81.2	74.0	64.9	89	No	0	2.0	3/0/0	— GHD Reference Spectra
TR01	Contour Drilling - Truck Movement	PWL (dB)	30.6	116.6	111.6	104.6	106.6	103.6	102.6	99.6	90.6	119					
		A-weighted correction	-39.4	-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1						
		PWL (dBA)	—	90.4	95.5	96.0	103.4	103.6	103.8	100.6	89.5	110	No	0	2.0	—	Referenced from US Federal Highway Administration (FHWA) Traffic Noise Model (TNM) Technical Manual, December 2019 20 Heavy Trucks: Cruise Throttle - TNM Technical Manual, Figure 6, p. 26
TR02	Contour Drilling - Truck Movements	PWL (dB)	30.6	116.6	111.6	104.6	106.6	103.6	102.6	99.6	90.6	119					
		A-weighted correction	-39.4	-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1						
		PWL (dBA)	—	90.4	95.5	96.0	103.4	103.6	103.8	100.6	89.5	110	No	0	2.0	—	Referenced from US Federal Highway Administration (FHWA) Traffic Noise Model (TNM) Technical Manual, December 2019 20 Heavy Trucks: Cruise Throttle - TNM Technical Manual, Figure 6, p. 26
i01	Trailer Coupling	PWL (dB)	—	107.4	106.4	106.4	105.4	108.4	102.4	98.4	93.4	114					
		A-weighted correction	-39.4	-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1						
		PWL (dBA)	—	81.2	90.3	97.8	102.2	108.4	103.6	99.4	92.3	111	No	0	1.0	60/60/60	— GHD Reference Spectra

Appendix E

Consultant's Declaration

CANADA

PROVINCE OF ONTARIO

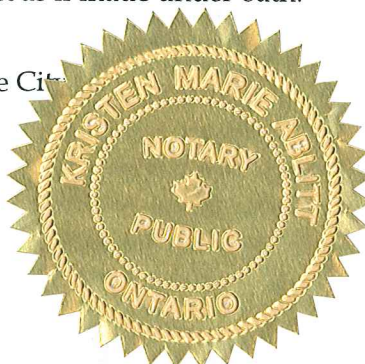
) In the Matter of the
) Environmental Protection
) Act and the Planning Act
)
)
) And in the Matter of
) 1065- 1103 Listowel Road and
) 354 Arthur Street S
) in the Township of Woolwich
) in the Regional Municipality
) of Waterloo

I, Ben Wiseman, of the City of Kitchener, in the Regional Municipality of Waterloo, SOLEMNLY
DECLARE THAT:

1. I am an Acoustic Specialist with a Professional Engineering License, license number 100216175, issued through the Ontario Professional Engineers Act by Professional Engineers of Ontario (PEO) employed by GHD Limited (GHD) which holds a Certificate of Authorization and have personal knowledge of the matters set out below.
2. I was retained or employed as the principal consultant to undertake the assessment of noise impacts and recommendation of noise mitigation measures for the property described as 1065-1103 Listowel Road and 354 Arthur Street S, Elmira, Ontario.
3. I have the expertise required to perform these services. Any assessment activities or recommendations requiring the application of engineering principles have been undertaken or supervised by an engineer qualified to perform such services.
4. The information used in the letter report entitled "Land Use Compatibility & Noise Impact Study" dated June 11, 2025, is the best available information as of the date of the study.
5. The noise level calculations, the interpretation of noise attenuation requirements, and the recommended measures are in accordance with Ontario Ministry of Environment Guidelines, Region of Waterloo policies, and any applicable policy or guidelines of the Area Municipality, and any other applicable policy or guideline.
6. The physical noise attenuation measures proposed in this study are feasible to implement and will provide the level of attenuation indicated in the study.
7. I acknowledge that this study may be subject to peer review at my cost.
8. I acknowledge that public authorities and future owners, occupants and others may rely on this statement.

AND I make this solemn Declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

DECLARED before me at the City of
of Waterloo, in the Regional
Municipality of Waterloo
This 11th day of June, 2025



)
)
)
)
)

A handwritten signature in blue ink, appearing to be "Ben Wiseman".

Ben Wiseman

Appendix F

Owner's Statement

Name: _____

Address: _____

Re: Land Use Compatibility & Noise Impact Study for the Proposed Residential Development at 1065-1103 Listowel Road and 354 Arthur Street S, Elmira, Ontario

OWNER'S STATEMENT

I am the owner of the property, or the owner's agent, and that I understand and agree with the noise assessment and potential attenuation measures detailed in the study entitled "Land Use Compatibility & Noise Impact Study" dated June 11, 2025 for the proposed residential development located at 1065-1103 Listowel Road and 354 Arthur Street S in Elmira, Ontario.

If the application is changed in a way that may affect the noise level calculations, I will have a revised noise study submitted to the Region of Waterloo.

Name

Signature

Date

Appendix G

**Cadna Calculation Mitigated Steady State &
Impulse State**

Receiver

Name: Block 13 Worst-Case POW - 1.2 m setback

ID: !07!POR-13a

X: 535192.48 m

Y: 4825159.10 m

Z: 363.83 m

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "!0E00!TR02"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
3	535254.90	4825123.28	356.22	0	D	32	-51.8	14.9	0.0	0.0	0.0	48.2	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-86.9
3	535254.90	4825123.28	356.22	0	D	63	47.4	14.9	0.0	0.0	0.0	48.2	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	12.2
3	535254.90	4825123.28	356.22	0	D	125	52.5	14.9	0.0	0.0	0.0	48.2	0.0	-0.2	0.0	0.0	6.1	0.0	0.0	13.3
3	535254.90	4825123.28	356.22	0	D	250	53.0	14.9	0.0	0.0	0.0	48.2	0.1	1.2	0.0	0.0	7.6	0.0	0.0	10.9
3	535254.90	4825123.28	356.22	0	D	500	60.4	14.9	0.0	0.0	0.0	48.2	0.1	-0.7	0.0	0.0	10.8	0.0	0.0	16.9
3	535254.90	4825123.28	356.22	0	D	1000	60.6	14.9	0.0	0.0	0.0	48.2	0.3	-1.5	0.0	0.0	13.6	0.0	0.0	15.0
3	535254.90	4825123.28	356.22	0	D	2000	60.8	14.9	0.0	0.0	0.0	48.2	0.7	-1.6	0.0	0.0	16.4	0.0	0.0	12.0
3	535254.90	4825123.28	356.22	0	D	4000	57.6	14.9	0.0	0.0	0.0	48.2	2.4	-1.6	0.0	0.0	18.5	0.0	0.0	5.0
3	535254.90	4825123.28	356.22	0	D	8000	46.5	14.9	0.0	0.0	0.0	48.2	8.5	-1.6	0.0	0.0	19.2	0.0	0.0	-12.9
3	535254.90	4825123.28	356.22	0	N	32	-154.8	14.9	0.0	0.0	0.0	48.2	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-189.9
3	535254.90	4825123.28	356.22	0	N	63	-55.6	14.9	0.0	0.0	0.0	48.2	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	-90.8
3	535254.90	4825123.28	356.22	0	N	125	-50.5	14.9	0.0	0.0	0.0	48.2	0.0	-0.2	0.0	0.0	6.1	0.0	0.0	-89.7
3	535254.90	4825123.28	356.22	0	N	250	-50.0	14.9	0.0	0.0	0.0	48.2	0.1	1.2	0.0	0.0	7.6	0.0	0.0	-92.1
3	535254.90	4825123.28	356.22	0	N	500	-42.6	14.9	0.0	0.0	0.0	48.2	0.1	-0.7	0.0	0.0	10.8	0.0	0.0	-86.2
3	535254.90	4825123.28	356.22	0	N	1000	-42.4	14.9	0.0	0.0	0.0	48.2	0.3	-1.5	0.0	0.0	13.6	0.0	0.0	-88.0
3	535254.90	4825123.28	356.22	0	N	2000	-42.2	14.9	0.0	0.0	0.0	48.2	0.7	-1.6	0.0	0.0	16.4	0.0	0.0	-91.0
3	535254.90	4825123.28	356.22	0	N	4000	-45.4	14.9	0.0	0.0	0.0	48.2	2.4	-1.6	0.0	0.0	18.5	0.0	0.0	-98.1
3	535254.90	4825123.28	356.22	0	N	8000	-56.5	14.9	0.0	0.0	0.0	48.2	8.5	-1.6	0.0	0.0	19.2	0.0	0.0	-115.9
3	535254.90	4825123.28	356.22	0	E	32	-154.8	14.9	0.0	0.0	0.0	48.2	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-189.9
3	535254.90	4825123.28	356.22	0	E	63	-55.6	14.9	0.0	0.0	0.0	48.2	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	-90.8
3	535254.90	4825123.28	356.22	0	E	125	-50.5	14.9	0.0	0.0	0.0	48.2	0.0	-0.2	0.0	0.0	6.1	0.0	0.0	-89.7
3	535254.90	4825123.28	356.22	0	E	250	-50.0	14.9	0.0	0.0	0.0	48.2	0.1	1.2	0.0	0.0	7.6	0.0	0.0	-92.1
3	535254.90	4825123.28	356.22	0	E	500	-42.6	14.9	0.0	0.0	0.0	48.2	0.1	-0.7	0.0	0.0	10.8	0.0	0.0	-86.2
3	535254.90	4825123.28	356.22	0	E	1000	-42.4	14.9	0.0	0.0	0.0	48.2	0.3	-1.5	0.0	0.0	13.6	0.0	0.0	-88.0
3	535254.90	4825123.28	356.22	0	E	2000	-42.2	14.9	0.0	0.0	0.0	48.2	0.7	-1.6	0.0	0.0	16.4	0.0	0.0	-91.0
3	535254.90	4825123.28	356.22	0	E	4000	-45.4	14.9	0.0	0.0	0.0	48.2	2.4	-1.6	0.0	0.0	18.5	0.0	0.0	-98.1
3	535254.90	4825123.28	356.22	0	E	8000	-56.5	14.9	0.0	0.0	0.0	48.2	8.5	-1.6	0.0	0.0	19.2	0.0	0.0	-115.9
19	535231.59	4825125.65	358.63	0	D	32	-51.8	12.2	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.9
19	535231.59	4825125.65	358.63	0	D	63	47.4	12.2	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.3
19	535231.59	4825125.65	358.63	0	D	125	52.5	12.2	0.0	0.0	0.0	45.3	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	20.3
19	535231.59	4825125.65	358.63	0	D	250	53.0	12.2	0.0	0.0	0.0	45.3	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	19.9
19	535231.59	4825125.65	358.63	0	D	500	60.4	12.2	0.0	0.0	0.0	45.3	0.1	-1.3	0.0	0.0	0.0	0.0	0.0	28.5
19	535231.59	4825125.65	358.63	0	D	1000	60.6	12.2	0.0	0.0	0.0	45.3	0.2	-1.8	0.0	0.0	0.0	0.0	0.0	29.1
19	535231.59	4825125.65	358.63	0	D	2000	60.8	12.2	0.0	0.0	0.0	45.3	0.5	-1.9	0.0	0.0	0.0	0.0	0.0	29.1
19	535231.59	4825125.65	358.63	0	D	4000	57.6	12.2	0.0	0.0	0.0	45.3	1.7	-1.9	0.0	0.0	0.0	0.0	0.0	24.7
19	535231.59	4825125.65	358.63	0	D	8000	46.5	12.2	0.0	0.0	0.0	45.3	6.0	-1.9	0.0	0.0	0.0	0.0	0.0	9.2
19	535231.59	4825125.65	358.63	0	N	32	-154.8	12.2	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-184.9
19	535231.59	4825125.65	358.63	0	N	63	-55.6	12.2	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.7
19	535231.59	4825125.65	358.63	0	N	125	-50.5	12.2	0.0	0.0	0.0	45.3	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	-82.7
19	535231.59	4825125.65	358.63	0	N	250	-50.0	12.2	0.0	0.0	0.0	45.3	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-83.1
19	535231.59	4825125.65	358.63	0	N	500	-42.6	12.2	0.0	0.0	0.0	45.3	0.1	-1.3	0.0	0.0	0.0	0.0	0.0	-74.5
19	535231.59	4825125.65	358.63	0	N	1000	-42.4	12.2	0.0	0.0	0.0	45.3	0.2	-1.8	0.0	0.0	0.0	0.0	0.0	-73.9
19	535231.59	4825125.65	358.63	0	N	2000	-42.2	12.2	0.0	0.0	0.0	45.3	0.5	-1.9	0.0	0.0	0.0	0.0	0.0	-74.0
19	535231.59	4825125.65	358.63	0	N	4000	-45.4	12.2	0.0	0.0	0.0	45.3	1.7	-1.9	0.0	0.0	0.0	0.0	0.0	-78.3
19	535231.59	4825125.65	358.63	0	N	8000	-56.5	12.2	0.0	0.0	0.0	45.3	6.0	-1.9	0.0	0.0	0.0	0.0	0.0	-93.8
19	535231.59	4825125.65	358.63	0	E	32	-154.8	12.2	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-184.9
19	535231.59	4825125.65	358.63	0	E	63	-55.6	12.2	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.7
19	535231.59	4825125.65	358.63	0	E	125	-50.5	12.2	0.0	0.0	0.0	45.3	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	-82.7
19	535231.59	4825125.65	358.63	0	E	250	-50.0	12.2	0.0	0.0	0.0	45.3	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-83.1
19	535231.59	4825125.65	358.63	0	E	500	-42.6	12.2	0.0	0.0	0.0	45.3	0.1	-1.3	0.0	0.0	0.0	0.0	0.0	-74.5
19	535231.59	4825125.65	358.63	0	E	1000	-42.4	12.2	0.0	0.0	0.0	45.3	0.2	-1.8	0.0	0.0	0.0	0.0	0.0	-73.9
19	535231.59	4825125.65	358.63	0	E	2000	-42.2	12.2	0.0	0.0	0.0	45.3	0.5	-1.9	0.0	0.0	0.0	0.0	0.0	-74.0

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "I0E00!TR02"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
19	535231.59	4825125.65	358.63	0	E	4000	-45.4	12.2	0.0	0.0	0.0	45.3	1.7	-1.9	0.0	0.0	0.0	0.0	0.0	-78.3
19	535231.59	4825125.65	358.63	0	E	8000	-56.5	12.2	0.0	0.0	0.0	45.3	6.0	-1.9	0.0	0.0	0.0	0.0	0.0	-93.8
21	535215.32	4825127.30	360.31	0	D	32	-51.8	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-79.5
21	535215.32	4825127.30	360.31	0	D	63	47.4	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.7
21	535215.32	4825127.30	360.31	0	D	125	52.5	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	24.7
21	535215.32	4825127.30	360.31	0	D	250	53.0	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	25.2
21	535215.32	4825127.30	360.31	0	D	500	60.4	12.2	0.0	0.0	0.0	42.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	32.6
21	535215.32	4825127.30	360.31	0	D	1000	60.6	12.2	0.0	0.0	0.0	42.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	32.7
21	535215.32	4825127.30	360.31	0	D	2000	60.8	12.2	0.0	0.0	0.0	42.9	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	32.7
21	535215.32	4825127.30	360.31	0	D	4000	57.6	12.2	0.0	0.0	0.0	42.9	1.3	-3.0	0.0	0.0	0.0	0.0	0.0	28.6
21	535215.32	4825127.30	360.31	0	D	8000	46.5	12.2	0.0	0.0	0.0	42.9	4.6	-3.0	0.0	0.0	0.0	0.0	0.0	14.2
21	535215.32	4825127.30	360.31	0	N	32	-154.8	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.5
21	535215.32	4825127.30	360.31	0	N	63	-55.6	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.3
21	535215.32	4825127.30	360.31	0	N	125	-50.5	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.3
21	535215.32	4825127.30	360.31	0	N	250	-50.0	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.8
21	535215.32	4825127.30	360.31	0	N	500	-42.6	12.2	0.0	0.0	0.0	42.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.4
21	535215.32	4825127.30	360.31	0	N	1000	-42.4	12.2	0.0	0.0	0.0	42.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
21	535215.32	4825127.30	360.31	0	N	2000	-42.2	12.2	0.0	0.0	0.0	42.9	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
21	535215.32	4825127.30	360.31	0	N	4000	-45.4	12.2	0.0	0.0	0.0	42.9	1.3	-3.0	0.0	0.0	0.0	0.0	0.0	-74.4
21	535215.32	4825127.30	360.31	0	N	8000	-56.5	12.2	0.0	0.0	0.0	42.9	4.6	-3.0	0.0	0.0	0.0	0.0	0.0	-88.8
21	535215.32	4825127.30	360.31	0	E	32	-154.8	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.5
21	535215.32	4825127.30	360.31	0	E	63	-55.6	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.3
21	535215.32	4825127.30	360.31	0	E	125	-50.5	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.3
21	535215.32	4825127.30	360.31	0	E	250	-50.0	12.2	0.0	0.0	0.0	42.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.8
21	535215.32	4825127.30	360.31	0	E	500	-42.6	12.2	0.0	0.0	0.0	42.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.4
21	535215.32	4825127.30	360.31	0	E	1000	-42.4	12.2	0.0	0.0	0.0	42.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
21	535215.32	4825127.30	360.31	0	E	2000	-42.2	12.2	0.0	0.0	0.0	42.9	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
21	535215.32	4825127.30	360.31	0	E	4000	-45.4	12.2	0.0	0.0	0.0	42.9	1.3	-3.0	0.0	0.0	0.0	0.0	0.0	-74.4
21	535215.32	4825127.30	360.31	0	E	8000	-56.5	12.2	0.0	0.0	0.0	42.9	4.6	-3.0	0.0	0.0	0.0	0.0	0.0	-88.8
23	535208.28	4825128.02	361.04	2	D	2000	60.8	3.5	0.0	0.0	0.0	54.5	1.4	-2.6	0.0	0.0	0.0	0.0	2.0	8.9
23	535208.28	4825128.02	361.04	2	D	4000	57.6	3.5	0.0	0.0	0.0	54.5	4.9	-2.6	0.0	0.0	0.0	0.0	2.0	2.2
23	535208.28	4825128.02	361.04	2	D	8000	46.5	3.5	0.0	0.0	0.0	54.5	17.5	-2.6	0.0	0.0	0.0	0.0	2.0	-21.5
23	535208.28	4825128.02	361.04	2	N	2000	-42.2	3.5	0.0	0.0	0.0	54.5	1.4	-2.6	0.0	0.0	0.0	0.0	2.0	-94.2
23	535208.28	4825128.02	361.04	2	N	4000	-45.4	3.5	0.0	0.0	0.0	54.5	4.9	-2.6	0.0	0.0	0.0	0.0	2.0	-100.8
23	535208.28	4825128.02	361.04	2	N	8000	-56.5	3.5	0.0	0.0	0.0	54.5	17.5	-2.6	0.0	0.0	0.0	0.0	2.0	-124.5
23	535208.28	4825128.02	361.04	2	E	2000	-42.2	3.5	0.0	0.0	0.0	54.5	1.4	-2.6	0.0	0.0	0.0	0.0	2.0	-94.2
23	535208.28	4825128.02	361.04	2	E	4000	-45.4	3.5	0.0	0.0	0.0	54.5	4.9	-2.6	0.0	0.0	0.0	0.0	2.0	-100.8
23	535208.28	4825128.02	361.04	2	E	8000	-56.5	3.5	0.0	0.0	0.0	54.5	17.5	-2.6	0.0	0.0	0.0	0.0	2.0	-124.5
32	535225.03	4825126.31	359.31	1	D	4000	57.6	10.8	0.0	0.0	0.0	47.1	2.1	-1.5	0.0	0.0	0.0	0.0	1.0	19.7
32	535225.03	4825126.31	359.31	1	D	8000	46.5	10.8	0.0	0.0	0.0	47.1	7.4	-1.5	0.0	0.0	0.0	0.0	1.0	3.2
32	535225.03	4825126.31	359.31	1	N	4000	-45.4	10.8	0.0	0.0	0.0	47.1	2.1	-1.5	0.0	0.0	0.0	0.0	1.0	-83.3
32	535225.03	4825126.31	359.31	1	N	8000	-56.5	10.8	0.0	0.0	0.0	47.1	7.4	-1.5	0.0	0.0	0.0	0.0	1.0	-99.8
32	535225.03	4825126.31	359.31	1	E	4000	-45.4	10.8	0.0	0.0	0.0	47.1	2.1	-1.5	0.0	0.0	0.0	0.0	1.0	-83.3
32	535225.03	4825126.31	359.31	1	E	8000	-56.5	10.8	0.0	0.0	0.0	47.1	7.4	-1.5	0.0	0.0	0.0	0.0	1.0	-99.8
34	535201.90	4825148.11	361.25	0	D	32	-51.8	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.9
34	535201.90	4825148.11	361.25	0	D	63	47.4	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.3
34	535201.90	4825148.11	361.25	0	D	125	52.5	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	27.3
34	535201.90	4825148.11	361.25	0	D	250	53.0	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	27.8
34	535201.90	4825148.11	361.25	0	D	500	60.4	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	35.2
34	535201.90	4825148.11	361.25	0	D	1000	60.6	6.2	0.0	0.0	0.0	34.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	35.4
34	535201.90	4825148.11	361.25	0	D	2000	60.8	6.2	0.0	0.0	0.0	34.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	35.5
34	535201.90	4825148.11	361.25	0	D	4000	57.6	6.2	0.0	0.0	0.0	34.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	32.0
34	535201.90	4825148.11	361.25	0	D	8000	46.5	6.2	0.0	0.0	0.0	34.3	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	19.6
34	535201.90	4825148.11	361.25	0	N	32	-154.8	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-179.9
34	535201.90	4825148.11	361.25	0	N	63	-55.6	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.7
34	535201.90	4825148.11	361.25	0	N	125	-50.5	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.7
34	535201.90	4825148.11	361.25	0	N	250	-50.0	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.2
34	535201.90	4825148.11	361.25	0	N	500	-42.6	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-67.8
34	535201.90	4825148.11	361.25	0	N	1000	-42.4	6.2	0.0	0.0	0.0	34.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-67.6
34	535201.90	4825148.11	361.25	0	N	2000	-42.2	6.2	0.0	0.0	0.0	34.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-67.5
34	535201.90	4825148.11	361.25	0	N	4000	-45.4	6.2	0.0	0.0	0.0	34.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-71.0
34	535201.90	4825148.11	361.25	0	N	8000	-56.5	6.2	0.0	0.0	0.0	34.3	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-83.4
34	535201.90	4825148.11	361.25	0	E	32	-154.8	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-179.9

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "I0E00!TR02"																				
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)
34	535201.90	4825148.11	361.25	0	E	63	-55.6	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.7
34	535201.90	4825148.11	361.25	0	E	125	-50.5	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.7
34	535201.90	4825148.11	361.25	0	E	250	-50.0	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.2
34	535201.90	4825148.11	361.25	0	E	500	-42.6	6.2	0.0	0.0	0.0	34.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-67.8
34	535201.90	4825148.11	361.25	0	E	1000	-42.4	6.2	0.0	0.0	0.0	34.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-67.6
34	535201.90	4825148.11	361.25	0	E	2000	-42.2	6.2	0.0	0.0	0.0	34.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-67.5
34	535201.90	4825148.11	361.25	0	E	4000	-45.4	6.2	0.0	0.0	0.0	34.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-71.0
34	535201.90	4825148.11	361.25	0	E	8000	-56.5	6.2	0.0	0.0	0.0	34.3	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-83.4
42	535199.57	4825144.63	361.25	0	D	32	-51.8	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.8
42	535199.57	4825144.63	361.25	0	D	63	47.4	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	21.4
42	535199.57	4825144.63	361.25	0	D	125	52.5	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	26.4
42	535199.57	4825144.63	361.25	0	D	250	53.0	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	26.9
42	535199.57	4825144.63	361.25	0	D	500	60.4	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	34.3
42	535199.57	4825144.63	361.25	0	D	1000	60.6	6.2	0.0	0.0	0.0	35.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	34.5
42	535199.57	4825144.63	361.25	0	D	2000	60.8	6.2	0.0	0.0	0.0	35.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	34.6
42	535199.57	4825144.63	361.25	0	D	4000	57.6	6.2	0.0	0.0	0.0	35.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	31.0
42	535199.57	4825144.63	361.25	0	D	8000	46.5	6.2	0.0	0.0	0.0	35.3	1.9	-3.0	0.0	0.0	0.0	0.0	0.0	18.5
42	535199.57	4825144.63	361.25	0	N	32	-154.8	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-180.8
42	535199.57	4825144.63	361.25	0	N	63	-55.6	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.6
42	535199.57	4825144.63	361.25	0	N	125	-50.5	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.6
42	535199.57	4825144.63	361.25	0	N	250	-50.0	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.1
42	535199.57	4825144.63	361.25	0	N	500	-42.6	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
42	535199.57	4825144.63	361.25	0	N	1000	-42.4	6.2	0.0	0.0	0.0	35.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-68.5
42	535199.57	4825144.63	361.25	0	N	2000	-42.2	6.2	0.0	0.0	0.0	35.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-68.4
42	535199.57	4825144.63	361.25	0	N	4000	-45.4	6.2	0.0	0.0	0.0	35.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-72.0
42	535199.57	4825144.63	361.25	0	N	8000	-56.5	6.2	0.0	0.0	0.0	35.3	1.9	-3.0	0.0	0.0	0.0	0.0	0.0	-84.5
42	535199.57	4825144.63	361.25	0	E	32	-154.8	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-180.8
42	535199.57	4825144.63	361.25	0	E	63	-55.6	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.6
42	535199.57	4825144.63	361.25	0	E	125	-50.5	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.6
42	535199.57	4825144.63	361.25	0	E	250	-50.0	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.1
42	535199.57	4825144.63	361.25	0	E	500	-42.6	6.2	0.0	0.0	0.0	35.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
42	535199.57	4825144.63	361.25	0	E	1000	-42.4	6.2	0.0	0.0	0.0	35.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-68.5
42	535199.57	4825144.63	361.25	0	E	2000	-42.2	6.2	0.0	0.0	0.0	35.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-68.4
42	535199.57	4825144.63	361.25	0	E	4000	-45.4	6.2	0.0	0.0	0.0	35.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-72.0
42	535199.57	4825144.63	361.25	0	E	8000	-56.5	6.2	0.0	0.0	0.0	35.3	1.9	-3.0	0.0	0.0	0.0	0.0	0.0	-84.5
44	535200.72	4825147.08	361.25	0	D	32	-51.8	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-74.6
44	535200.72	4825147.08	361.25	0	D	63	47.4	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	24.6
44	535200.72	4825147.08	361.25	0	D	125	52.5	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	29.7
44	535200.72	4825147.08	361.25	0	D	250	53.0	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	30.2
44	535200.72	4825147.08	361.25	0	D	500	60.4	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	37.6
44	535200.72	4825147.08	361.25	0	D	1000	60.6	8.6	0.0	0.0	0.0	34.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	37.7
44	535200.72	4825147.08	361.25	0	D	2000	60.8	8.6	0.0	0.0	0.0	34.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	37.8
44	535200.72	4825147.08	361.25	0	D	4000	57.6	8.6	0.0	0.0	0.0	34.4	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	34.3
44	535200.72	4825147.08	361.25	0	D	8000	46.5	8.6	0.0	0.0	0.0	34.4	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	22.0
44	535200.72	4825147.08	361.25	0	N	32	-154.8	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-177.6
44	535200.72	4825147.08	361.25	0	N	63	-55.6	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.4
44	535200.72	4825147.08	361.25	0	N	125	-50.5	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-73.3
44	535200.72	4825147.08	361.25	0	N	250	-50.0	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-72.9
44	535200.72	4825147.08	361.25	0	N	500	-42.6	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-65.5
44	535200.72	4825147.08	361.25	0	N	1000	-42.4	8.6	0.0	0.0	0.0	34.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-65.3
44	535200.72	4825147.08	361.25	0	N	2000	-42.2	8.6	0.0	0.0	0.0	34.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-65.2
44	535200.72	4825147.08	361.25	0	N	4000	-45.4	8.6	0.0	0.0	0.0	34.4	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
44	535200.72	4825147.08	361.25	0	N	8000	-56.5	8.6	0.0	0.0	0.0	34.4	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-81.1
44	535200.72	4825147.08	361.25	0	E	32	-154.8	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-177.6
44	535200.72	4825147.08	361.25	0	E	63	-55.6	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.4
44	535200.72	4825147.08	361.25	0	E	125	-50.5	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-73.3
44	535200.72	4825147.08	361.25	0	E	250	-50.0	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-72.9
44	535200.72	4825147.08	361.25	0	E	500	-42.6	8.6	0.0	0.0	0.0	34.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-65.5
44	535200.72	4825147.08	361.25	0	E	1000	-42.4	8.6	0.0	0.0	0.0	34.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-65.3
44	535200.72	4825147.08	361.25	0	E	2000	-42.2	8.6	0.0	0.0	0.0	34.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-65.2
44	535200.72	4825147.08	361.25	0	E	4000	-45.4	8.6	0.0	0.0	0.0	34.4	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
44	535200.72	4825147.08	361.25	0	E	8000	-56.5	8.6	0.0	0.0	0.0	34.4	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-81.1
66	535195.58	4825141.54	361.25	0	D	32	-51.8	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.9

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "!0E00!TR02"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
66	535195.58	4825141.54	361.25	0	D	63	47.4	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.3
66	535195.58	4825141.54	361.25	0	D	125	52.5	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	27.3
66	535195.58	4825141.54	361.25	0	D	250	53.0	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	27.8
66	535195.58	4825141.54	361.25	0	D	500	60.4	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	35.2
66	535195.58	4825141.54	361.25	0	D	1000	60.6	8.0	0.0	0.0	0.0	36.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	35.4
66	535195.58	4825141.54	361.25	0	D	2000	60.8	8.0	0.0	0.0	0.0	36.1	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	35.5
66	535195.58	4825141.54	361.25	0	D	4000	57.6	8.0	0.0	0.0	0.0	36.1	0.6	-3.0	0.0	0.0	0.0	0.0	0.0	31.9
66	535195.58	4825141.54	361.25	0	D	8000	46.5	8.0	0.0	0.0	0.0	36.1	2.1	-3.0	0.0	0.0	0.0	0.0	0.0	19.2
66	535195.58	4825141.54	361.25	0	N	32	-154.8	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-179.9
66	535195.58	4825141.54	361.25	0	N	63	-55.6	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.7
66	535195.58	4825141.54	361.25	0	N	125	-50.5	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.7
66	535195.58	4825141.54	361.25	0	N	250	-50.0	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.2
66	535195.58	4825141.54	361.25	0	N	500	-42.6	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-67.8
66	535195.58	4825141.54	361.25	0	N	1000	-42.4	8.0	0.0	0.0	0.0	36.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-67.6
66	535195.58	4825141.54	361.25	0	N	2000	-42.2	8.0	0.0	0.0	0.0	36.1	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-67.5
66	535195.58	4825141.54	361.25	0	N	4000	-45.4	8.0	0.0	0.0	0.0	36.1	0.6	-3.0	0.0	0.0	0.0	0.0	0.0	-71.2
66	535195.58	4825141.54	361.25	0	N	8000	-56.5	8.0	0.0	0.0	0.0	36.1	2.1	-3.0	0.0	0.0	0.0	0.0	0.0	-83.8
66	535195.58	4825141.54	361.25	0	E	32	-154.8	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-179.9
66	535195.58	4825141.54	361.25	0	E	63	-55.6	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.7
66	535195.58	4825141.54	361.25	0	E	125	-50.5	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.7
66	535195.58	4825141.54	361.25	0	E	250	-50.0	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.2
66	535195.58	4825141.54	361.25	0	E	500	-42.6	8.0	0.0	0.0	0.0	36.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-67.8
66	535195.58	4825141.54	361.25	0	E	1000	-42.4	8.0	0.0	0.0	0.0	36.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-67.6
66	535195.58	4825141.54	361.25	0	E	2000	-42.2	8.0	0.0	0.0	0.0	36.1	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-67.5
66	535195.58	4825141.54	361.25	0	E	4000	-45.4	8.0	0.0	0.0	0.0	36.1	0.6	-3.0	0.0	0.0	0.0	0.0	0.0	-71.2
66	535195.58	4825141.54	361.25	0	E	8000	-56.5	8.0	0.0	0.0	0.0	36.1	2.1	-3.0	0.0	0.0	0.0	0.0	0.0	-83.8
88	535197.72	4825141.88	361.24	0	D	32	-51.8	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.0
88	535197.72	4825141.88	361.24	0	D	63	47.4	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	21.2
88	535197.72	4825141.88	361.24	0	D	125	52.5	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	26.3
88	535197.72	4825141.88	361.24	0	D	250	53.0	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	26.8
88	535197.72	4825141.88	361.24	0	D	500	60.4	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	34.2
88	535197.72	4825141.88	361.24	0	D	1000	60.6	7.0	0.0	0.0	0.0	36.2	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	34.4
88	535197.72	4825141.88	361.24	0	D	2000	60.8	7.0	0.0	0.0	0.0	36.2	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	34.4
88	535197.72	4825141.88	361.24	0	D	4000	57.6	7.0	0.0	0.0	0.0	36.2	0.6	-3.0	0.0	0.0	0.0	0.0	0.0	30.8
88	535197.72	4825141.88	361.24	0	D	8000	46.5	7.0	0.0	0.0	0.0	36.2	2.1	-3.0	0.0	0.0	0.0	0.0	0.0	18.2
88	535197.72	4825141.88	361.24	0	N	32	-154.8	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-181.0
88	535197.72	4825141.88	361.24	0	N	63	-55.6	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.8
88	535197.72	4825141.88	361.24	0	N	125	-50.5	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.7
88	535197.72	4825141.88	361.24	0	N	250	-50.0	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.2
88	535197.72	4825141.88	361.24	0	N	500	-42.6	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-68.8
88	535197.72	4825141.88	361.24	0	N	1000	-42.4	7.0	0.0	0.0	0.0	36.2	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
88	535197.72	4825141.88	361.24	0	N	2000	-42.2	7.0	0.0	0.0	0.0	36.2	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-68.6
88	535197.72	4825141.88	361.24	0	N	4000	-45.4	7.0	0.0	0.0	0.0	36.2	0.6	-3.0	0.0	0.0	0.0	0.0	0.0	-72.2
88	535197.72	4825141.88	361.24	0	N	8000	-56.5	7.0	0.0	0.0	0.0	36.2	2.1	-3.0	0.0	0.0	0.0	0.0	0.0	-84.8
88	535197.72	4825141.88	361.24	0	E	32	-154.8	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-181.0
88	535197.72	4825141.88	361.24	0	E	63	-55.6	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.8
88	535197.72	4825141.88	361.24	0	E	125	-50.5	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.7
88	535197.72	4825141.88	361.24	0	E	250	-50.0	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.2
88	535197.72	4825141.88	361.24	0	E	500	-42.6	7.0	0.0	0.0	0.0	36.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-68.8
88	535197.72	4825141.88	361.24	0	E	1000	-42.4	7.0	0.0	0.0	0.0	36.2	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
88	535197.72	4825141.88	361.24	0	E	2000	-42.2	7.0	0.0	0.0	0.0	36.2	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-68.6
88	535197.72	4825141.88	361.24	0	E	4000	-45.4	7.0	0.0	0.0	0.0	36.2	0.6	-3.0	0.0	0.0	0.0	0.0	0.0	-72.2
88	535197.72	4825141.88	361.24	0	E	8000	-56.5	7.0	0.0	0.0	0.0	36.2	2.1	-3.0	0.0	0.0	0.0	0.0	0.0	-84.8
96	535189.89	4825139.39	361.27	0	D	32	-51.8	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.1
96	535189.89	4825139.39	361.27	0	D	63	47.4	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	21.1
96	535189.89	4825139.39	361.27	0	D	125	52.5	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	26.2
96	535189.89	4825139.39	361.27	0	D	250	53.0	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	26.6
96	535189.89	4825139.39	361.27	0	D	500	60.4	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	34.0
96	535189.89	4825139.39	361.27	0	D	1000	60.6	7.7	0.0	0.0	0.0	37.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	34.2
96	535189.89	4825139.39	361.27	0	D	2000	60.8	7.7	0.0	0.0	0.0	37.0	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	34.3
96	535189.89	4825139.39	361.27	0	D	4000	57.6	7.7	0.0	0.0	0.0	37.0	0.7	-3.0	0.0	0.0	0.0	0.0	0.0	30.6
96	535189.89	4825139.39	361.27	0	D	8000	46.5	7.7	0.0	0.0	0.0	37.0	2.3	-3.0	0.0	0.0	0.0	0.0	0.0	17.8
96	535189.89	4825139.39	361.27	0	N	32	-154.8	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-181.1

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "I0E00!TR02"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
96	535189.89	4825139.39	361.27	0	N	63	-55.6	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.9
96	535189.89	4825139.39	361.27	0	N	125	-50.5	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.8
96	535189.89	4825139.39	361.27	0	N	250	-50.0	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.4
96	535189.89	4825139.39	361.27	0	N	500	-42.6	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-69.0
96	535189.89	4825139.39	361.27	0	N	1000	-42.4	7.7	0.0	0.0	0.0	37.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-68.8
96	535189.89	4825139.39	361.27	0	N	2000	-42.2	7.7	0.0	0.0	0.0	37.0	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
96	535189.89	4825139.39	361.27	0	N	4000	-45.4	7.7	0.0	0.0	0.0	37.0	0.7	-3.0	0.0	0.0	0.0	0.0	0.0	-72.4
96	535189.89	4825139.39	361.27	0	N	8000	-56.5	7.7	0.0	0.0	0.0	37.0	2.3	-3.0	0.0	0.0	0.0	0.0	0.0	-85.2
96	535189.89	4825139.39	361.27	0	E	32	-154.8	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-181.1
96	535189.89	4825139.39	361.27	0	E	63	-55.6	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.9
96	535189.89	4825139.39	361.27	0	E	125	-50.5	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.8
96	535189.89	4825139.39	361.27	0	E	250	-50.0	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.4
96	535189.89	4825139.39	361.27	0	E	500	-42.6	7.7	0.0	0.0	0.0	37.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-69.0
96	535189.89	4825139.39	361.27	0	E	1000	-42.4	7.7	0.0	0.0	0.0	37.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-68.8
96	535189.89	4825139.39	361.27	0	E	2000	-42.2	7.7	0.0	0.0	0.0	37.0	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-68.7
96	535189.89	4825139.39	361.27	0	E	4000	-45.4	7.7	0.0	0.0	0.0	37.0	0.7	-3.0	0.0	0.0	0.0	0.0	0.0	-72.4
96	535189.89	4825139.39	361.27	0	E	8000	-56.5	7.7	0.0	0.0	0.0	37.0	2.3	-3.0	0.0	0.0	0.0	0.0	0.0	-85.2
98	535188.60	4825139.03	361.28	1	D	500	60.4	2.6	0.0	0.0	0.0	57.6	0.4	-2.2	0.0	0.0	0.0	0.0	1.0	6.2
98	535188.60	4825139.03	361.28	1	D	1000	60.6	2.6	0.0	0.0	0.0	57.6	0.8	-2.4	0.0	0.0	0.0	0.0	1.0	6.3
98	535188.60	4825139.03	361.28	1	D	2000	60.8	2.6	0.0	0.0	0.0	57.6	2.1	-2.5	0.0	0.0	0.0	0.0	1.0	5.2
98	535188.60	4825139.03	361.28	1	D	4000	57.6	2.6	0.0	0.0	0.0	57.6	7.0	-2.5	0.0	0.0	0.0	0.0	1.0	-2.9
98	535188.60	4825139.03	361.28	1	D	8000	46.5	2.6	0.0	0.0	0.0	57.6	25.0	-2.5	0.0	0.0	0.0	0.0	1.0	-32.0
98	535188.60	4825139.03	361.28	1	N	500	-42.6	2.6	0.0	0.0	0.0	57.6	0.4	-2.2	0.0	0.0	0.0	0.0	1.0	-96.8
98	535188.60	4825139.03	361.28	1	N	1000	-42.4	2.6	0.0	0.0	0.0	57.6	0.8	-2.4	0.0	0.0	0.0	0.0	1.0	-96.7
98	535188.60	4825139.03	361.28	1	N	2000	-42.2	2.6	0.0	0.0	0.0	57.6	2.1	-2.5	0.0	0.0	0.0	0.0	1.0	-97.8
98	535188.60	4825139.03	361.28	1	N	4000	-45.4	2.6	0.0	0.0	0.0	57.6	7.0	-2.5	0.0	0.0	0.0	0.0	1.0	-105.9
98	535188.60	4825139.03	361.28	1	N	8000	-56.5	2.6	0.0	0.0	0.0	57.6	25.0	-2.5	0.0	0.0	0.0	0.0	1.0	-135.0
98	535188.60	4825139.03	361.28	1	E	500	-42.6	2.6	0.0	0.0	0.0	57.6	0.4	-2.2	0.0	0.0	0.0	0.0	1.0	-96.8
98	535188.60	4825139.03	361.28	1	E	1000	-42.4	2.6	0.0	0.0	0.0	57.6	0.8	-2.4	0.0	0.0	0.0	0.0	1.0	-96.7
98	535188.60	4825139.03	361.28	1	E	2000	-42.2	2.6	0.0	0.0	0.0	57.6	2.1	-2.5	0.0	0.0	0.0	0.0	1.0	-97.8
98	535188.60	4825139.03	361.28	1	E	4000	-45.4	2.6	0.0	0.0	0.0	57.6	7.0	-2.5	0.0	0.0	0.0	0.0	1.0	-105.9
98	535188.60	4825139.03	361.28	1	E	8000	-56.5	2.6	0.0	0.0	0.0	57.6	25.0	-2.5	0.0	0.0	0.0	0.0	1.0	-135.0
116	535187.38	4825138.68	361.29	1	D	500	60.4	-1.5	0.0	0.0	0.0	57.6	0.4	-2.3	0.0	0.0	12.5	0.0	1.0	-10.4
116	535187.38	4825138.68	361.29	1	D	1000	60.6	-1.5	0.0	0.0	0.0	57.6	0.8	-2.6	0.0	0.0	15.4	0.0	1.0	-13.1
116	535187.38	4825138.68	361.29	1	D	2000	60.8	-1.5	0.0	0.0	0.0	57.6	2.1	-2.6	0.0	0.0	18.3	0.0	1.0	-17.0
116	535187.38	4825138.68	361.29	1	D	4000	57.6	-1.5	0.0	0.0	0.0	57.6	7.0	-2.6	0.0	0.0	21.2	0.0	1.0	-28.1
116	535187.38	4825138.68	361.29	1	D	8000	46.5	-1.5	0.0	0.0	0.0	57.6	24.9	-2.6	0.0	0.0	24.2	0.0	1.0	-60.1
116	535187.38	4825138.68	361.29	1	N	500	-42.6	-1.5	0.0	0.0	0.0	57.6	0.4	-2.3	0.0	0.0	12.5	0.0	1.0	-113.4
116	535187.38	4825138.68	361.29	1	N	1000	-42.4	-1.5	0.0	0.0	0.0	57.6	0.8	-2.6	0.0	0.0	15.4	0.0	1.0	-116.1
116	535187.38	4825138.68	361.29	1	N	2000	-42.2	-1.5	0.0	0.0	0.0	57.6	2.1	-2.6	0.0	0.0	18.3	0.0	1.0	-120.0
116	535187.38	4825138.68	361.29	1	N	4000	-45.4	-1.5	0.0	0.0	0.0	57.6	7.0	-2.6	0.0	0.0	21.2	0.0	1.0	-131.1
116	535187.38	4825138.68	361.29	1	N	8000	-56.5	-1.5	0.0	0.0	0.0	57.6	24.9	-2.6	0.0	0.0	24.2	0.0	1.0	-163.1
116	535187.38	4825138.68	361.29	1	E	500	-42.6	-1.5	0.0	0.0	0.0	57.6	0.4	-2.3	0.0	0.0	12.5	0.0	1.0	-113.4
116	535187.38	4825138.68	361.29	1	E	1000	-42.4	-1.5	0.0	0.0	0.0	57.6	0.8	-2.6	0.0	0.0	15.4	0.0	1.0	-116.1
116	535187.38	4825138.68	361.29	1	E	2000	-42.2	-1.5	0.0	0.0	0.0	57.6	2.1	-2.6	0.0	0.0	18.3	0.0	1.0	-120.0
116	535187.38	4825138.68	361.29	1	E	4000	-45.4	-1.5	0.0	0.0	0.0	57.6	7.0	-2.6	0.0	0.0	21.2	0.0	1.0	-131.1
116	535187.38	4825138.68	361.29	1	E	8000	-56.5	-1.5	0.0	0.0	0.0	57.6	24.9	-2.6	0.0	0.0	24.2	0.0	1.0	-163.1
123	535184.72	4825138.06	361.31	0	D	32	-51.8	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.1
123	535184.72	4825138.06	361.31	0	D	63	47.4	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.1
123	535184.72	4825138.06	361.31	0	D	125	52.5	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	24.2
123	535184.72	4825138.06	361.31	0	D	250	53.0	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	24.7
123	535184.72	4825138.06	361.31	0	D	500	60.4	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	32.1
123	535184.72	4825138.06	361.31	0	D	1000	60.6	6.8	0.0	0.0	0.0	38.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	32.2
123	535184.72	4825138.06	361.31	0	D	2000	60.8	6.8	0.0	0.0	0.0	38.1	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	32.3
123	535184.72	4825138.06	361.31	0	D	4000	57.6	6.8	0.0	0.0	0.0	38.1	0.7	-3.0	0.0	0.0	0.0	0.0	0.0	28.6
123	535184.72	4825138.06	361.31	0	D	8000	46.5	6.8	0.0	0.0	0.0	38.1	2.6	-3.0	0.0	0.0	0.0	0.0	0.0	15.6
123	535184.72	4825138.06	361.31	0	N	32	-154.8	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-183.1
123	535184.72	4825138.06	361.31	0	N	63	-55.6	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.9
123	535184.72	4825138.06	361.31	0	N	125	-50.5	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.8
123	535184.72	4825138.06	361.31	0	N	250	-50.0	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.3
123	535184.72	4825138.06	361.31	0	N	500	-42.6	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-71.0
123	535184.72	4825138.06	361.31	0	N	1000	-42.4	6.8	0.0	0.0	0.0	38.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.8
123	535184.72	4825138.06	361.31	0	N	2000	-42.2	6.8	0.0	0.0	0.0	38.1	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-70.7

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "I0E00!TR02"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
123	535184.72	4825138.06	361.31	0	N	4000	-45.4	6.8	0.0	0.0	0.0	38.1	0.7	-3.0	0.0	0.0	0.0	0.0	0.0	-74.5
123	535184.72	4825138.06	361.31	0	N	8000	-56.5	6.8	0.0	0.0	0.0	38.1	2.6	-3.0	0.0	0.0	0.0	0.0	0.0	-87.4
123	535184.72	4825138.06	361.31	0	E	32	-154.8	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-183.1
123	535184.72	4825138.06	361.31	0	E	63	-55.6	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.9
123	535184.72	4825138.06	361.31	0	E	125	-50.5	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.8
123	535184.72	4825138.06	361.31	0	E	250	-50.0	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.3
123	535184.72	4825138.06	361.31	0	E	500	-42.6	6.8	0.0	0.0	0.0	38.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-71.0
123	535184.72	4825138.06	361.31	0	E	1000	-42.4	6.8	0.0	0.0	0.0	38.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.8
123	535184.72	4825138.06	361.31	0	E	2000	-42.2	6.8	0.0	0.0	0.0	38.1	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-70.7
123	535184.72	4825138.06	361.31	0	E	4000	-45.4	6.8	0.0	0.0	0.0	38.1	0.7	-3.0	0.0	0.0	0.0	0.0	0.0	-74.5
123	535184.72	4825138.06	361.31	0	E	8000	-56.5	6.8	0.0	0.0	0.0	38.1	2.6	-3.0	0.0	0.0	0.0	0.0	0.0	-87.4
129	535181.56	4825137.33	361.33	0	D	32	-51.8	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.2
129	535181.56	4825137.33	361.33	0	D	63	47.4	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	14.0
129	535181.56	4825137.33	361.33	0	D	125	52.5	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.0
129	535181.56	4825137.33	361.33	0	D	250	53.0	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.5
129	535181.56	4825137.33	361.33	0	D	500	60.4	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	26.9
129	535181.56	4825137.33	361.33	0	D	1000	60.6	2.3	0.0	0.0	0.0	38.8	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	27.1
129	535181.56	4825137.33	361.33	0	D	2000	60.8	2.3	0.0	0.0	0.0	38.8	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	27.1
129	535181.56	4825137.33	361.33	0	D	4000	57.6	2.3	0.0	0.0	0.0	38.8	0.8	-3.0	0.0	0.0	0.0	0.0	0.0	23.3
129	535181.56	4825137.33	361.33	0	D	8000	46.5	2.3	0.0	0.0	0.0	38.8	2.9	-3.0	0.0	0.0	0.0	0.0	0.0	10.2
129	535181.56	4825137.33	361.33	0	N	32	-154.8	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-188.2
129	535181.56	4825137.33	361.33	0	N	63	-55.6	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-89.1
129	535181.56	4825137.33	361.33	0	N	125	-50.5	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.0
129	535181.56	4825137.33	361.33	0	N	250	-50.0	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.5
129	535181.56	4825137.33	361.33	0	N	500	-42.6	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.1
129	535181.56	4825137.33	361.33	0	N	1000	-42.4	2.3	0.0	0.0	0.0	38.8	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-76.0
129	535181.56	4825137.33	361.33	0	N	2000	-42.2	2.3	0.0	0.0	0.0	38.8	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-75.9
129	535181.56	4825137.33	361.33	0	N	4000	-45.4	2.3	0.0	0.0	0.0	38.8	0.8	-3.0	0.0	0.0	0.0	0.0	0.0	-79.7
129	535181.56	4825137.33	361.33	0	N	8000	-56.5	2.3	0.0	0.0	0.0	38.8	2.9	-3.0	0.0	0.0	0.0	0.0	0.0	-92.8
129	535181.56	4825137.33	361.33	0	E	32	-154.8	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-188.2
129	535181.56	4825137.33	361.33	0	E	63	-55.6	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-89.1
129	535181.56	4825137.33	361.33	0	E	125	-50.5	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.0
129	535181.56	4825137.33	361.33	0	E	250	-50.0	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.5
129	535181.56	4825137.33	361.33	0	E	500	-42.6	2.3	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-76.1
129	535181.56	4825137.33	361.33	0	E	1000	-42.4	2.3	0.0	0.0	0.0	38.8	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-76.0
129	535181.56	4825137.33	361.33	0	E	2000	-42.2	2.3	0.0	0.0	0.0	38.8	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-75.9
129	535181.56	4825137.33	361.33	0	E	4000	-45.4	2.3	0.0	0.0	0.0	38.8	0.8	-3.0	0.0	0.0	0.0	0.0	0.0	-79.7
129	535181.56	4825137.33	361.33	0	E	8000	-56.5	2.3	0.0	0.0	0.0	38.8	2.9	-3.0	0.0	0.0	0.0	0.0	0.0	-92.8
138	535183.33	4825137.74	361.32	1	D	500	60.4	7.3	0.0	0.0	0.0	54.3	0.3	-2.5	0.0	0.0	0.0	0.0	1.0	14.5
138	535183.33	4825137.74	361.32	1	D	1000	60.6	7.3	0.0	0.0	0.0	54.3	0.5	-2.7	0.0	0.0	0.0	0.0	1.0	14.6
138	535183.33	4825137.74	361.32	1	D	2000	60.8	7.3	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	1.0	14.0
138	535183.33	4825137.74	361.32	1	D	4000	57.6	7.3	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	1.0	7.4
138	535183.33	4825137.74	361.32	1	D	8000	46.5	7.3	0.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	1.0	-16.1
138	535183.33	4825137.74	361.32	1	N	500	-42.6	7.3	0.0	0.0	0.0	54.3	0.3	-2.5	0.0	0.0	0.0	0.0	1.0	-88.5
138	535183.33	4825137.74	361.32	1	N	1000	-42.4	7.3	0.0	0.0	0.0	54.3	0.5	-2.7	0.0	0.0	0.0	0.0	1.0	-88.4
138	535183.33	4825137.74	361.32	1	N	2000	-42.2	7.3	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	1.0	-89.0
138	535183.33	4825137.74	361.32	1	N	4000	-45.4	7.3	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	1.0	-95.6
138	535183.33	4825137.74	361.32	1	N	8000	-56.5	7.3	0.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	1.0	-119.1
138	535183.33	4825137.74	361.32	1	E	500	-42.6	7.3	0.0	0.0	0.0	54.3	0.3	-2.5	0.0	0.0	0.0	0.0	1.0	-88.5
138	535183.33	4825137.74	361.32	1	E	1000	-42.4	7.3	0.0	0.0	0.0	54.3	0.5	-2.7	0.0	0.0	0.0	0.0	1.0	-88.4
138	535183.33	4825137.74	361.32	1	E	2000	-42.2	7.3	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	1.0	-89.0
138	535183.33	4825137.74	361.32	1	E	4000	-45.4	7.3	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	1.0	-95.6
138	535183.33	4825137.74	361.32	1	E	8000	-56.5	7.3	0.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	1.0	-119.1
141	535197.63	4825136.57	361.22	0	D	32	-51.8	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-79.5
141	535197.63	4825136.57	361.22	0	D	63	47.4	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.7
141	535197.63	4825136.57	361.22	0	D	125	52.5	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	24.8
141	535197.63	4825136.57	361.22	0	D	250	53.0	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	25.3
141	535197.63	4825136.57	361.22	0	D	500	60.4	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	32.7
141	535197.63	4825136.57	361.22	0	D	1000	60.6	7.7	0.0	0.0	0.0	38.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	32.9
141	535197.63	4825136.57	361.22	0	D	2000	60.8	7.7	0.0	0.0	0.0	38.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	32.9
141	535197.63	4825136.57	361.22	0	D	4000	57.6	7.7	0.0	0.0	0.0	38.3	0.8	-3.0	0.0	0.0	0.0	0.0	0.0	29.2
141	535197.63	4825136.57	361.22	0	D	8000	46.5	7.7	0.0	0.0	0.0	38.3	2.7	-3.0	0.0	0.0	0.0	0.0	0.0	16.1
141	535197.63	4825136.57	361.22	0	N	32	-154.8	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.5

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "I0E00!TR02"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
141	535197.63	4825136.57	361.22	0	N	63	-55.6	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.3
141	535197.63	4825136.57	361.22	0	N	125	-50.5	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.2
141	535197.63	4825136.57	361.22	0	N	250	-50.0	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.7
141	535197.63	4825136.57	361.22	0	N	500	-42.6	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
141	535197.63	4825136.57	361.22	0	N	1000	-42.4	7.7	0.0	0.0	0.0	38.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.2
141	535197.63	4825136.57	361.22	0	N	2000	-42.2	7.7	0.0	0.0	0.0	38.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-70.1
141	535197.63	4825136.57	361.22	0	N	4000	-45.4	7.7	0.0	0.0	0.0	38.3	0.8	-3.0	0.0	0.0	0.0	0.0	0.0	-73.8
141	535197.63	4825136.57	361.22	0	N	8000	-56.5	7.7	0.0	0.0	0.0	38.3	2.7	-3.0	0.0	0.0	0.0	0.0	0.0	-86.9
141	535197.63	4825136.57	361.22	0	E	32	-154.8	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.5
141	535197.63	4825136.57	361.22	0	E	63	-55.6	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.3
141	535197.63	4825136.57	361.22	0	E	125	-50.5	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.2
141	535197.63	4825136.57	361.22	0	E	250	-50.0	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.7
141	535197.63	4825136.57	361.22	0	E	500	-42.6	7.7	0.0	0.0	0.0	38.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
141	535197.63	4825136.57	361.22	0	E	1000	-42.4	7.7	0.0	0.0	0.0	38.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.2
141	535197.63	4825136.57	361.22	0	E	2000	-42.2	7.7	0.0	0.0	0.0	38.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-70.1
141	535197.63	4825136.57	361.22	0	E	4000	-45.4	7.7	0.0	0.0	0.0	38.3	0.8	-3.0	0.0	0.0	0.0	0.0	0.0	-73.8
141	535197.63	4825136.57	361.22	0	E	8000	-56.5	7.7	0.0	0.0	0.0	38.3	2.7	-3.0	0.0	0.0	0.0	0.0	0.0	-86.9
143	535177.65	4825137.11	361.36	0	D	32	-51.8	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.4
143	535177.65	4825137.11	361.36	0	D	63	47.4	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	18.8
143	535177.65	4825137.11	361.36	0	D	125	52.5	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	23.8
143	535177.65	4825137.11	361.36	0	D	250	53.0	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	24.3
143	535177.65	4825137.11	361.36	0	D	500	60.4	7.9	0.0	0.0	0.0	39.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	31.7
143	535177.65	4825137.11	361.36	0	D	1000	60.6	7.9	0.0	0.0	0.0	39.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	31.9
143	535177.65	4825137.11	361.36	0	D	2000	60.8	7.9	0.0	0.0	0.0	39.5	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	31.9
143	535177.65	4825137.11	361.36	0	D	4000	57.6	7.9	0.0	0.0	0.0	39.5	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	28.1
143	535177.65	4825137.11	361.36	0	D	8000	46.5	7.9	0.0	0.0	0.0	39.5	3.1	-3.0	0.0	0.0	0.0	0.0	0.0	14.8
143	535177.65	4825137.11	361.36	0	N	32	-154.8	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-183.4
143	535177.65	4825137.11	361.36	0	N	63	-55.6	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.2
143	535177.65	4825137.11	361.36	0	N	125	-50.5	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-79.2
143	535177.65	4825137.11	361.36	0	N	250	-50.0	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.7
143	535177.65	4825137.11	361.36	0	N	500	-42.6	7.9	0.0	0.0	0.0	39.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-71.3
143	535177.65	4825137.11	361.36	0	N	1000	-42.4	7.9	0.0	0.0	0.0	39.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-71.1
143	535177.65	4825137.11	361.36	0	N	2000	-42.2	7.9	0.0	0.0	0.0	39.5	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-71.1
143	535177.65	4825137.11	361.36	0	N	4000	-45.4	7.9	0.0	0.0	0.0	39.5	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	-74.9
143	535177.65	4825137.11	361.36	0	N	8000	-56.5	7.9	0.0	0.0	0.0	39.5	3.1	-3.0	0.0	0.0	0.0	0.0	0.0	-88.3
143	535177.65	4825137.11	361.36	0	E	32	-154.8	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-183.4
143	535177.65	4825137.11	361.36	0	E	63	-55.6	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.2
143	535177.65	4825137.11	361.36	0	E	125	-50.5	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-79.2
143	535177.65	4825137.11	361.36	0	E	250	-50.0	7.9	0.0	0.0	0.0	39.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.7
143	535177.65	4825137.11	361.36	0	E	500	-42.6	7.9	0.0	0.0	0.0	39.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-71.3
143	535177.65	4825137.11	361.36	0	E	1000	-42.4	7.9	0.0	0.0	0.0	39.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-71.1
143	535177.65	4825137.11	361.36	0	E	2000	-42.2	7.9	0.0	0.0	0.0	39.5	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-71.1
143	535177.65	4825137.11	361.36	0	E	4000	-45.4	7.9	0.0	0.0	0.0	39.5	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	-74.9
143	535177.65	4825137.11	361.36	0	E	8000	-56.5	7.9	0.0	0.0	0.0	39.5	3.1	-3.0	0.0	0.0	0.0	0.0	0.0	-88.3
144	535177.65	4825137.11	361.36	1	D	500	60.4	7.9	0.0	0.0	0.0	54.3	0.3	-2.5	0.0	0.0	0.0	0.0	1.0	15.2
144	535177.65	4825137.11	361.36	1	D	1000	60.6	7.9	0.0	0.0	0.0	54.3	0.5	-2.7	0.0	0.0	0.0	0.0	1.0	15.3
144	535177.65	4825137.11	361.36	1	D	2000	60.8	7.9	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	1.0	14.7
144	535177.65	4825137.11	361.36	1	D	4000	57.6	7.9	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	1.0	8.1
144	535177.65	4825137.11	361.36	1	D	8000	46.5	7.9	0.0	0.0	0.0	54.3	17.1	-2.7	0.0	0.0	0.0	0.0	1.0	-15.3
144	535177.65	4825137.11	361.36	1	N	500	-42.6	7.9	0.0	0.0	0.0	54.3	0.3	-2.5	0.0	0.0	0.0	0.0	1.0	-87.8
144	535177.65	4825137.11	361.36	1	N	1000	-42.4	7.9	0.0	0.0	0.0	54.3	0.5	-2.7	0.0	0.0	0.0	0.0	1.0	-87.7
144	535177.65	4825137.11	361.36	1	N	2000	-42.2	7.9	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	1.0	-88.3
144	535177.65	4825137.11	361.36	1	N	4000	-45.4	7.9	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	1.0	-94.9
144	535177.65	4825137.11	361.36	1	N	8000	-56.5	7.9	0.0	0.0	0.0	54.3	17.1	-2.7	0.0	0.0	0.0	0.0	1.0	-118.3
144	535177.65	4825137.11	361.36	1	E	500	-42.6	7.9	0.0	0.0	0.0	54.3	0.3	-2.5	0.0	0.0	0.0	0.0	1.0	-87.8
144	535177.65	4825137.11	361.36	1	E	1000	-42.4	7.9	0.0	0.0	0.0	54.3	0.5	-2.7	0.0	0.0	0.0	0.0	1.0	-87.7
144	535177.65	4825137.11	361.36	1	E	2000	-42.2	7.9	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	1.0	-88.3
144	535177.65	4825137.11	361.36	1	E	4000	-45.4	7.9	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	1.0	-94.9
144	535177.65	4825137.11	361.36	1	E	8000	-56.5	7.9	0.0	0.0	0.0	54.3	17.1	-2.7	0.0	0.0	0.0	0.0	1.0	-118.3
145	535175.18	4825137.10	361.38	2	D	2000	60.8	0.7	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	2.0	6.4
145	535175.18	4825137.10	361.38	2	D	4000	57.6	0.7	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	2.0	-0.2
145	535175.18	4825137.10	361.38	2	D	8000	46.5	0.7	0.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	2.0	-23.6
145	535175.18	4825137.10	361.38	2	N	2000	-42.2	0.7	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	2.0	-96.6

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "I0E00!TR02"																				
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)
145	535175.18	4825137.10	361.38	2	N	4000	-45.4	0.7	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	2.0	-103.2
145	535175.18	4825137.10	361.38	2	N	8000	-56.5	0.7	0.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	2.0	-126.6
145	535175.18	4825137.10	361.38	2	E	2000	-42.2	0.7	0.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	2.0	-96.6
145	535175.18	4825137.10	361.38	2	E	4000	-45.4	0.7	0.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	2.0	-103.2
145	535175.18	4825137.10	361.38	2	E	8000	-56.5	0.7	0.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	2.0	-126.6
159	535203.81	4825129.20	361.17	0	D	32	-51.8	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.4
159	535203.81	4825129.20	361.17	0	D	63	47.4	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.8
159	535203.81	4825129.20	361.17	0	D	125	52.5	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.8
159	535203.81	4825129.20	361.17	0	D	250	53.0	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	23.3
159	535203.81	4825129.20	361.17	0	D	500	60.4	8.5	0.0	0.0	0.0	41.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	30.7
159	535203.81	4825129.20	361.17	0	D	1000	60.6	8.5	0.0	0.0	0.0	41.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	30.8
159	535203.81	4825129.20	361.17	0	D	2000	60.8	8.5	0.0	0.0	0.0	41.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	30.9
159	535203.81	4825129.20	361.17	0	D	4000	57.6	8.5	0.0	0.0	0.0	41.1	1.1	-3.0	0.0	0.0	0.0	0.0	0.0	26.9
159	535203.81	4825129.20	361.17	0	D	8000	46.5	8.5	0.0	0.0	0.0	41.1	3.8	-3.0	0.0	0.0	0.0	0.0	0.0	13.1
159	535203.81	4825129.20	361.17	0	N	32	-154.8	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-184.4
159	535203.81	4825129.20	361.17	0	N	63	-55.6	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.2
159	535203.81	4825129.20	361.17	0	N	125	-50.5	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.2
159	535203.81	4825129.20	361.17	0	N	250	-50.0	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-79.7
159	535203.81	4825129.20	361.17	0	N	500	-42.6	8.5	0.0	0.0	0.0	41.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-72.3
159	535203.81	4825129.20	361.17	0	N	1000	-42.4	8.5	0.0	0.0	0.0	41.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-72.2
159	535203.81	4825129.20	361.17	0	N	2000	-42.2	8.5	0.0	0.0	0.0	41.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-72.2
159	535203.81	4825129.20	361.17	0	N	4000	-45.4	8.5	0.0	0.0	0.0	41.1	1.1	-3.0	0.0	0.0	0.0	0.0	0.0	-76.1
159	535203.81	4825129.20	361.17	0	N	8000	-56.5	8.5	0.0	0.0	0.0	41.1	3.8	-3.0	0.0	0.0	0.0	0.0	0.0	-89.9
159	535203.81	4825129.20	361.17	0	E	32	-154.8	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-184.4
159	535203.81	4825129.20	361.17	0	E	63	-55.6	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.2
159	535203.81	4825129.20	361.17	0	E	125	-50.5	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.2
159	535203.81	4825129.20	361.17	0	E	250	-50.0	8.5	0.0	0.0	0.0	41.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-79.7
159	535203.81	4825129.20	361.17	0	E	500	-42.6	8.5	0.0	0.0	0.0	41.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-72.3
159	535203.81	4825129.20	361.17	0	E	1000	-42.4	8.5	0.0	0.0	0.0	41.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-72.2
159	535203.81	4825129.20	361.17	0	E	2000	-42.2	8.5	0.0	0.0	0.0	41.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-72.2
159	535203.81	4825129.20	361.17	0	E	4000	-45.4	8.5	0.0	0.0	0.0	41.1	1.1	-3.0	0.0	0.0	0.0	0.0	0.0	-76.1
159	535203.81	4825129.20	361.17	0	E	8000	-56.5	8.5	0.0	0.0	0.0	41.1	3.8	-3.0	0.0	0.0	0.0	0.0	0.0	-89.9
164	535207.00	4825128.18	361.15	2	D	2000	60.8	-4.3	0.0	0.0	0.0	54.5	1.4	-2.5	0.0	0.0	0.0	0.0	2.0	1.0
164	535207.00	4825128.18	361.15	2	D	4000	57.6	-4.3	0.0	0.0	0.0	54.5	4.9	-2.5	0.0	0.0	0.0	0.0	2.0	-5.6
164	535207.00	4825128.18	361.15	2	D	8000	46.5	-4.3	0.0	0.0	0.0	54.5	17.4	-2.5	0.0	0.0	0.0	0.0	2.0	-29.3
164	535207.00	4825128.18	361.15	2	N	2000	-42.2	-4.3	0.0	0.0	0.0	54.5	1.4	-2.5	0.0	0.0	0.0	0.0	2.0	-102.0
164	535207.00	4825128.18	361.15	2	N	4000	-45.4	-4.3	0.0	0.0	0.0	54.5	4.9	-2.5	0.0	0.0	0.0	0.0	2.0	-108.7
164	535207.00	4825128.18	361.15	2	N	8000	-56.5	-4.3	0.0	0.0	0.0	54.5	17.4	-2.5	0.0	0.0	0.0	0.0	2.0	-132.3
164	535207.00	4825128.18	361.15	2	E	2000	-42.2	-4.3	0.0	0.0	0.0	54.5	1.4	-2.5	0.0	0.0	0.0	0.0	2.0	-102.0
164	535207.00	4825128.18	361.15	2	E	4000	-45.4	-4.3	0.0	0.0	0.0	54.5	4.9	-2.5	0.0	0.0	0.0	0.0	2.0	-108.7
164	535207.00	4825128.18	361.15	2	E	8000	-56.5	-4.3	0.0	0.0	0.0	54.5	17.4	-2.5	0.0	0.0	0.0	0.0	2.0	-132.3
166	535199.31	4825131.98	361.20	0	D	32	-51.8	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.6
166	535199.31	4825131.98	361.20	0	D	63	47.4	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	16.6
166	535199.31	4825131.98	361.20	0	D	125	52.5	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	21.6
166	535199.31	4825131.98	361.20	0	D	250	53.0	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.1
166	535199.31	4825131.98	361.20	0	D	500	60.4	6.1	0.0	0.0	0.0	40.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	29.5
166	535199.31	4825131.98	361.20	0	D	1000	60.6	6.1	0.0	0.0	0.0	40.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	29.6
166	535199.31	4825131.98	361.20	0	D	2000	60.8	6.1	0.0	0.0	0.0	40.0	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	29.7
166	535199.31	4825131.98	361.20	0	D	4000	57.6	6.1	0.0	0.0	0.0	40.0	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	25.8
166	535199.31	4825131.98	361.20	0	D	8000	46.5	6.1	0.0	0.0	0.0	40.0	3.3	-3.0	0.0	0.0	0.0	0.0	0.0	12.4
166	535199.31	4825131.98	361.20	0	N	32	-154.8	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-185.7
166	535199.31	4825131.98	361.20	0	N	63	-55.6	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-86.5
166	535199.31	4825131.98	361.20	0	N	125	-50.5	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.4
166	535199.31	4825131.98	361.20	0	N	250	-50.0	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.9
166	535199.31	4825131.98	361.20	0	N	500	-42.6	6.1	0.0	0.0	0.0	40.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.5
166	535199.31	4825131.98	361.20	0	N	1000	-42.4	6.1	0.0	0.0	0.0	40.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.4
166	535199.31	4825131.98	361.20	0	N	2000	-42.2	6.1	0.0	0.0	0.0	40.0	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-73.3
166	535199.31	4825131.98	361.20	0	N	4000	-45.4	6.1	0.0	0.0	0.0	40.0	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	-77.2
166	535199.31	4825131.98	361.20	0	N	8000	-56.5	6.1	0.0	0.0	0.0	40.0	3.3	-3.0	0.0	0.0	0.0	0.0	0.0	-90.6
166	535199.31	4825131.98	361.20	0	E	32	-154.8	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-185.7
166	535199.31	4825131.98	361.20	0	E	63	-55.6	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-86.5
166	535199.31	4825131.98	361.20	0	E	125	-50.5	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.4
166	535199.31	4825131.98	361.20	0	E	250	-50.0	6.1	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.9

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movements", ID: "I0E001TR02"																				
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)
166	535199.31	4825131.98	361.20	0	E	500	-42.6	6.1	0.0	0.0	0.0	40.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.5
166	535199.31	4825131.98	361.20	0	E	1000	-42.4	6.1	0.0	0.0	0.0	40.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.4
166	535199.31	4825131.98	361.20	0	E	2000	-42.2	6.1	0.0	0.0	0.0	40.0	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-73.3
166	535199.31	4825131.98	361.20	0	E	4000	-45.4	6.1	0.0	0.0	0.0	40.0	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	-77.2
166	535199.31	4825131.98	361.20	0	E	8000	-56.5	6.1	0.0	0.0	0.0	40.0	3.3	-3.0	0.0	0.0	0.0	0.0	0.0	-90.6

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movement", ID: "I0E001TR01"																				
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)
49	535215.25	4825126.51	360.28	0	D	32	-54.8	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.5
49	535215.25	4825126.51	360.28	0	D	63	44.4	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	16.7
49	535215.25	4825126.51	360.28	0	D	125	49.5	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	21.8
49	535215.25	4825126.51	360.28	0	D	250	50.0	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.3
49	535215.25	4825126.51	360.28	0	D	500	57.4	12.4	0.0	0.0	0.0	43.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	29.7
49	535215.25	4825126.51	360.28	0	D	1000	57.6	12.4	0.0	0.0	0.0	43.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	29.8
49	535215.25	4825126.51	360.28	0	D	2000	57.8	12.4	0.0	0.0	0.0	43.0	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	29.8
49	535215.25	4825126.51	360.28	0	D	4000	54.6	12.4	0.0	0.0	0.0	43.0	1.3	-3.0	0.0	0.0	0.0	0.0	0.0	25.6
49	535215.25	4825126.51	360.28	0	D	8000	43.5	12.4	0.0	0.0	0.0	43.0	4.7	-3.0	0.0	0.0	0.0	0.0	0.0	11.2
49	535215.25	4825126.51	360.28	0	N	32	-154.8	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.5
49	535215.25	4825126.51	360.28	0	N	63	-55.6	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.3
49	535215.25	4825126.51	360.28	0	N	125	-50.5	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.2
49	535215.25	4825126.51	360.28	0	N	250	-50.0	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.7
49	535215.25	4825126.51	360.28	0	N	500	-42.6	12.4	0.0	0.0	0.0	43.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
49	535215.25	4825126.51	360.28	0	N	1000	-42.4	12.4	0.0	0.0	0.0	43.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.2
49	535215.25	4825126.51	360.28	0	N	2000	-42.2	12.4	0.0	0.0	0.0	43.0	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	-70.2
49	535215.25	4825126.51	360.28	0	N	4000	-45.4	12.4	0.0	0.0	0.0	43.0	1.3	-3.0	0.0	0.0	0.0	0.0	0.0	-74.4
49	535215.25	4825126.51	360.28	0	N	8000	-56.5	12.4	0.0	0.0	0.0	43.0	4.7	-3.0	0.0	0.0	0.0	0.0	0.0	-88.8
49	535215.25	4825126.51	360.28	0	E	32	-154.8	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.5
49	535215.25	4825126.51	360.28	0	E	63	-55.6	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.3
49	535215.25	4825126.51	360.28	0	E	125	-50.5	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.2
49	535215.25	4825126.51	360.28	0	E	250	-50.0	12.4	0.0	0.0	0.0	43.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.7
49	535215.25	4825126.51	360.28	0	E	500	-42.6	12.4	0.0	0.0	0.0	43.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.3
49	535215.25	4825126.51	360.28	0	E	1000	-42.4	12.4	0.0	0.0	0.0	43.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.2
49	535215.25	4825126.51	360.28	0	E	2000	-42.2	12.4	0.0	0.0	0.0	43.0	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	-70.2
49	535215.25	4825126.51	360.28	0	E	4000	-45.4	12.4	0.0	0.0	0.0	43.0	1.3	-3.0	0.0	0.0	0.0	0.0	0.0	-74.4
49	535215.25	4825126.51	360.28	0	E	8000	-56.5	12.4	0.0	0.0	0.0	43.0	4.7	-3.0	0.0	0.0	0.0	0.0	0.0	-88.8
51	535232.37	4825124.80	358.53	0	D	32	-54.8	12.4	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.9
51	535232.37	4825124.80	358.53	0	D	63	44.4	12.4	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	14.3
51	535232.37	4825124.80	358.53	0	D	125	49.5	12.4	0.0	0.0	0.0	45.5	0.0	-1.0	0.0	0.0	0.0	0.0	0.0	17.3
51	535232.37	4825124.80	358.53	0	D	250	50.0	12.4	0.0	0.0	0.0	45.5	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	17.0
51	535232.37	4825124.80	358.53	0	D	500	57.4	12.4	0.0	0.0	0.0	45.5	0.1	-1.4	0.0	0.0	0.0	0.0	0.0	25.6
51	535232.37	4825124.80	358.53	0	D	1000	57.6	12.4	0.0	0.0	0.0	45.5	0.2	-1.9	0.0	0.0	0.0	0.0	0.0	26.2
51	535232.37	4825124.80	358.53	0	D	2000	57.8	12.4	0.0	0.0	0.0	45.5	0.5	-1.9	0.0	0.0	0.0	0.0	0.0	26.1
51	535232.37	4825124.80	358.53	0	D	4000	54.6	12.4	0.0	0.0	0.0	45.5	1.7	-1.9	0.0	0.0	0.0	0.0	0.0	21.7
51	535232.37	4825124.80	358.53	0	D	8000	43.5	12.4	0.0	0.0	0.0	45.5	6.2	-1.9	0.0	0.0	0.0	0.0	0.0	6.1
51	535232.37	4825124.80	358.53	0	N	32	-154.8	12.4	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-184.9
51	535232.37	4825124.80	358.53	0	N	63	-55.6	12.4	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.7
51	535232.37	4825124.80	358.53	0	N	125	-50.5	12.4	0.0	0.0	0.0	45.5	0.0	-1.0	0.0	0.0	0.0	0.0	0.0	-82.7
51	535232.37	4825124.80	358.53	0	N	250	-50.0	12.4	0.0	0.0	0.0	45.5	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-83.0
51	535232.37	4825124.80	358.53	0	N	500	-42.6	12.4	0.0	0.0	0.0	45.5	0.1	-1.4	0.0	0.0	0.0	0.0	0.0	-74.4
51	535232.37	4825124.80	358.53	0	N	1000	-42.4	12.4	0.0	0.0	0.0	45.5	0.2	-1.9	0.0	0.0	0.0	0.0	0.0	-73.8
51	535232.37	4825124.80	358.53	0	N	2000	-42.2	12.4	0.0	0.0	0.0	45.5	0.5	-1.9	0.0	0.0	0.0	0.0	0.0	-73.9
51	535232.37	4825124.80	358.53	0	N	4000	-45.4	12.4	0.0	0.0	0.0	45.5	1.7	-1.9	0.0	0.0	0.0	0.0	0.0	-78.3
51	535232.37	4825124.80	358.53	0	N	8000	-56.5	12.4	0.0	0.0	0.0	45.5	6.2	-1.9	0.0	0.0	0.0	0.0	0.0	-93.9
51	535232.37	4825124.80	358.53	0	E	32	-154.8	12.4	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-184.9
51	535232.37	4825124.80	358.53	0	E	63	-55.6	12.4	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.7
51	535232.37	4825124.80	358.53	0	E	125	-50.5	12.4	0.0	0.0	0.0	45.5	0.0	-1.0	0.0	0.0	0.0	0.0	0.0	-82.7
51	535232.37	4825124.80	358.53	0	E	250	-50.0	12.4	0.0	0.0	0.0	45.5	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-83.0
51	535232.37	4825124.80	358.53	0	E	500	-42.6	12.4	0.0	0.0	0.0	45.5	0.1	-1.4	0.0	0.0	0.0	0.0	0.0	-74.4
51	535232.37	4825124.80	358.53	0	E	1000	-42.4	12.4	0.0	0.0	0.0	45.5	0.2	-1.9	0.0	0.0	0.0	0.0	0.0	-73.8
51	535232.37	4825124.80	358.53	0	E	2000	-42.2	12.4	0.0	0.0	0.0	45.5	0.5	-1.9	0.0	0.0	0.0	0.0	0.0	-73.9
51	535232.37	4825124.80	358.53	0	E	4000	-45.4	12.4	0.0	0.0	0.0	45.5	1.7	-1.9	0.0	0.0	0.0	0.0	0.0	-78.3
51	535232.37	4825124.80	358.53	0	E	8000	-56.5	12.4	0.0	0.0	0.0	45.5	6.2	-1.9	0.0	0.0	0.0	0.0	0.0	-93.9

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movement", ID: "IOE001TR01"																				
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)
54	535255.49	4825122.50	356.17	0	D	32	-54.8	14.7	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-90.2
54	535255.49	4825122.50	356.17	0	D	63	44.4	14.7	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	8.9
54	535255.49	4825122.50	356.17	0	D	125	49.5	14.7	0.0	0.0	0.0	48.3	0.0	-0.2	0.0	0.0	5.8	0.0	0.0	10.2
54	535255.49	4825122.50	356.17	0	D	250	50.0	14.7	0.0	0.0	0.0	48.3	0.1	1.2	0.0	0.0	7.2	0.0	0.0	7.9
54	535255.49	4825122.50	356.17	0	D	500	57.4	14.7	0.0	0.0	0.0	48.3	0.1	-0.7	0.0	0.0	10.5	0.0	0.0	13.9
54	535255.49	4825122.50	356.17	0	D	1000	57.6	14.7	0.0	0.0	0.0	48.3	0.3	-1.5	0.0	0.0	13.2	0.0	0.0	12.1
54	535255.49	4825122.50	356.17	0	D	2000	57.8	14.7	0.0	0.0	0.0	48.3	0.7	-1.6	0.0	0.0	16.0	0.0	0.0	9.1
54	535255.49	4825122.50	356.17	0	D	4000	54.6	14.7	0.0	0.0	0.0	48.3	2.4	-1.6	0.0	0.0	18.4	0.0	0.0	1.8
54	535255.49	4825122.50	356.17	0	D	8000	43.5	14.7	0.0	0.0	0.0	48.3	8.6	-1.6	0.0	0.0	19.1	0.0	0.0	-16.2
54	535255.49	4825122.50	356.17	0	N	32	-154.8	14.7	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-190.2
54	535255.49	4825122.50	356.17	0	N	63	-55.6	14.7	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-91.1
54	535255.49	4825122.50	356.17	0	N	125	-50.5	14.7	0.0	0.0	0.0	48.3	0.0	-0.2	0.0	0.0	5.8	0.0	0.0	-89.8
54	535255.49	4825122.50	356.17	0	N	250	-50.0	14.7	0.0	0.0	0.0	48.3	0.1	1.2	0.0	0.0	7.2	0.0	0.0	-92.1
54	535255.49	4825122.50	356.17	0	N	500	-42.6	14.7	0.0	0.0	0.0	48.3	0.1	-0.7	0.0	0.0	10.5	0.0	0.0	-86.1
54	535255.49	4825122.50	356.17	0	N	1000	-42.4	14.7	0.0	0.0	0.0	48.3	0.3	-1.5	0.0	0.0	13.2	0.0	0.0	-87.9
54	535255.49	4825122.50	356.17	0	N	2000	-42.2	14.7	0.0	0.0	0.0	48.3	0.7	-1.6	0.0	0.0	16.0	0.0	0.0	-90.9
54	535255.49	4825122.50	356.17	0	N	4000	-45.4	14.7	0.0	0.0	0.0	48.3	2.4	-1.6	0.0	0.0	18.4	0.0	0.0	-98.2
54	535255.49	4825122.50	356.17	0	N	8000	-56.5	14.7	0.0	0.0	0.0	48.3	8.6	-1.6	0.0	0.0	19.1	0.0	0.0	-116.2
54	535255.49	4825122.50	356.17	0	E	32	-154.8	14.7	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-190.2
54	535255.49	4825122.50	356.17	0	E	63	-55.6	14.7	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	-91.1
54	535255.49	4825122.50	356.17	0	E	125	-50.5	14.7	0.0	0.0	0.0	48.3	0.0	-0.2	0.0	0.0	5.8	0.0	0.0	-89.8
54	535255.49	4825122.50	356.17	0	E	250	-50.0	14.7	0.0	0.0	0.0	48.3	0.1	1.2	0.0	0.0	7.2	0.0	0.0	-92.1
54	535255.49	4825122.50	356.17	0	E	500	-42.6	14.7	0.0	0.0	0.0	48.3	0.1	-0.7	0.0	0.0	10.5	0.0	0.0	-86.1
54	535255.49	4825122.50	356.17	0	E	1000	-42.4	14.7	0.0	0.0	0.0	48.3	0.3	-1.5	0.0	0.0	13.2	0.0	0.0	-87.9
54	535255.49	4825122.50	356.17	0	E	2000	-42.2	14.7	0.0	0.0	0.0	48.3	0.7	-1.6	0.0	0.0	16.0	0.0	0.0	-90.9
54	535255.49	4825122.50	356.17	0	E	4000	-45.4	14.7	0.0	0.0	0.0	48.3	2.4	-1.6	0.0	0.0	18.4	0.0	0.0	-98.2
54	535255.49	4825122.50	356.17	0	E	8000	-56.5	14.7	0.0	0.0	0.0	48.3	8.6	-1.6	0.0	0.0	19.1	0.0	0.0	-116.2
60	535207.83	4825127.24	361.03	2	D	2000	57.8	3.6	0.0	0.0	0.0	54.4	1.4	-2.6	0.0	0.0	0.0	0.0	2.0	6.1
60	535207.83	4825127.24	361.03	2	D	4000	54.6	3.6	0.0	0.0	0.0	54.4	4.9	-2.6	0.0	0.0	0.0	0.0	2.0	-0.6
60	535207.83	4825127.24	361.03	2	D	8000	43.5	3.6	0.0	0.0	0.0	54.4	17.4	-2.6	0.0	0.0	0.0	0.0	2.0	-24.2
60	535207.83	4825127.24	361.03	2	N	2000	-42.2	3.6	0.0	0.0	0.0	54.4	1.4	-2.6	0.0	0.0	0.0	0.0	2.0	-93.9
60	535207.83	4825127.24	361.03	2	N	4000	-45.4	3.6	0.0	0.0	0.0	54.4	4.9	-2.6	0.0	0.0	0.0	0.0	2.0	-100.6
60	535207.83	4825127.24	361.03	2	N	8000	-56.5	3.6	0.0	0.0	0.0	54.4	17.4	-2.6	0.0	0.0	0.0	0.0	2.0	-124.2
60	535207.83	4825127.24	361.03	2	E	2000	-42.2	3.6	0.0	0.0	0.0	54.4	1.4	-2.6	0.0	0.0	0.0	0.0	2.0	-93.9
60	535207.83	4825127.24	361.03	2	E	4000	-45.4	3.6	0.0	0.0	0.0	54.4	4.9	-2.6	0.0	0.0	0.0	0.0	2.0	-100.6
60	535207.83	4825127.24	361.03	2	E	8000	-56.5	3.6	0.0	0.0	0.0	54.4	17.4	-2.6	0.0	0.0	0.0	0.0	2.0	-124.2
168	535200.84	4825126.62	361.18	0	D	32	-54.8	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.6
168	535200.84	4825126.62	361.18	0	D	63	44.4	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	16.6
168	535200.84	4825126.62	361.18	0	D	125	49.5	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	21.6
168	535200.84	4825126.62	361.18	0	D	250	50.0	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.1
168	535200.84	4825126.62	361.18	0	D	500	57.4	10.7	0.0	0.0	0.0	41.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	29.5
168	535200.84	4825126.62	361.18	0	D	1000	57.6	10.7	0.0	0.0	0.0	41.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	29.6
168	535200.84	4825126.62	361.18	0	D	2000	57.8	10.7	0.0	0.0	0.0	41.5	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	29.6
168	535200.84	4825126.62	361.18	0	D	4000	54.6	10.7	0.0	0.0	0.0	41.5	1.1	-3.0	0.0	0.0	0.0	0.0	0.0	25.7
168	535200.84	4825126.62	361.18	0	D	8000	43.5	10.7	0.0	0.0	0.0	41.5	3.9	-3.0	0.0	0.0	0.0	0.0	0.0	11.7
168	535200.84	4825126.62	361.18	0	N	32	-154.8	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.6
168	535200.84	4825126.62	361.18	0	N	63	-55.6	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.4
168	535200.84	4825126.62	361.18	0	N	125	-50.5	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.4
168	535200.84	4825126.62	361.18	0	N	250	-50.0	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.9
168	535200.84	4825126.62	361.18	0	N	500	-42.6	10.7	0.0	0.0	0.0	41.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.5
168	535200.84	4825126.62	361.18	0	N	1000	-42.4	10.7	0.0	0.0	0.0	41.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.4
168	535200.84	4825126.62	361.18	0	N	2000	-42.2	10.7	0.0	0.0	0.0	41.5	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-70.4
168	535200.84	4825126.62	361.18	0	N	4000	-45.4	10.7	0.0	0.0	0.0	41.5	1.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.3
168	535200.84	4825126.62	361.18	0	N	8000	-56.5	10.7	0.0	0.0	0.0	41.5	3.9	-3.0	0.0	0.0	0.0	0.0	0.0	-88.3
168	535200.84	4825126.62	361.18	0	E	32	-154.8	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-182.6
168	535200.84	4825126.62	361.18	0	E	63	-55.6	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.4
168	535200.84	4825126.62	361.18	0	E	125	-50.5	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.4
168	535200.84	4825126.62	361.18	0	E	250	-50.0	10.7	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.9
168	535200.84	4825126.62	361.18	0	E	500	-42.6	10.7	0.0	0.0	0.0	41.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.5
168	535200.84	4825126.62	361.18	0	E	1000	-42.4	10.7	0.0	0.0	0.0	41.5	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-70.4
168	535200.84	4825126.62	361.18	0	E	2000	-42.2	10.7	0.0	0.0	0.0	41.5	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-70.4
168	535200.84	4825126.62	361.18	0	E	4000	-45.4	10.7	0.0	0.0	0.0	41.5	1.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.3
168	535200.84	4825126.62	361.18	0	E	8000	-56.5	10.7	0.0	0.0	0.0	41.5	3.9	-3.0	0.0	0.0	0.0	0.0	0.0	-88.3

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movement", ID: "IOE001TR01"																				
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)
170	535206.53	4825127.34	361.15	2	D	2000	57.8	-4.8	0.0	0.0	0.0	54.4	1.4	-2.5	0.0	0.0	0.0	0.0	2.0	-2.5
170	535206.53	4825127.34	361.15	2	D	4000	54.6	-4.8	0.0	0.0	0.0	54.4	4.9	-2.5	0.0	0.0	0.0	0.0	2.0	-9.1
170	535206.53	4825127.34	361.15	2	D	8000	43.5	-4.8	0.0	0.0	0.0	54.4	17.3	-2.5	0.0	0.0	0.0	0.0	2.0	-32.7
170	535206.53	4825127.34	361.15	2	N	2000	-42.2	-4.8	0.0	0.0	0.0	54.4	1.4	-2.5	0.0	0.0	0.0	0.0	2.0	-102.5
170	535206.53	4825127.34	361.15	2	N	4000	-45.4	-4.8	0.0	0.0	0.0	54.4	4.9	-2.5	0.0	0.0	0.0	0.0	2.0	-109.1
170	535206.53	4825127.34	361.15	2	N	8000	-56.5	-4.8	0.0	0.0	0.0	54.4	17.3	-2.5	0.0	0.0	0.0	0.0	2.0	-132.7
170	535206.53	4825127.34	361.15	2	E	2000	-42.2	-4.8	0.0	0.0	0.0	54.4	1.4	-2.5	0.0	0.0	0.0	0.0	2.0	-102.5
170	535206.53	4825127.34	361.15	2	E	4000	-45.4	-4.8	0.0	0.0	0.0	54.4	4.9	-2.5	0.0	0.0	0.0	0.0	2.0	-109.1
170	535206.53	4825127.34	361.15	2	E	8000	-56.5	-4.8	0.0	0.0	0.0	54.4	17.3	-2.5	0.0	0.0	0.0	0.0	2.0	-132.7
176	535192.62	4825123.12	361.23	0	D	32	-54.8	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.3
176	535192.62	4825123.12	361.23	0	D	63	44.4	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	13.9
176	535192.62	4825123.12	361.23	0	D	125	49.5	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.0
176	535192.62	4825123.12	361.23	0	D	250	50.0	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.4
176	535192.62	4825123.12	361.23	0	D	500	57.4	8.6	0.0	0.0	0.0	42.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	26.8
176	535192.62	4825123.12	361.23	0	D	1000	57.6	8.6	0.0	0.0	0.0	42.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	26.9
176	535192.62	4825123.12	361.23	0	D	2000	57.8	8.6	0.0	0.0	0.0	42.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	26.9
176	535192.62	4825123.12	361.23	0	D	4000	54.6	8.6	0.0	0.0	0.0	42.1	1.2	-3.0	0.0	0.0	0.0	0.0	0.0	22.9
176	535192.62	4825123.12	361.23	0	D	8000	43.5	8.6	0.0	0.0	0.0	42.1	4.2	-3.0	0.0	0.0	0.0	0.0	0.0	8.8
176	535192.62	4825123.12	361.23	0	N	32	-154.8	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-185.3
176	535192.62	4825123.12	361.23	0	N	63	-55.6	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-86.1
176	535192.62	4825123.12	361.23	0	N	125	-50.5	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.0
176	535192.62	4825123.12	361.23	0	N	250	-50.0	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.6
176	535192.62	4825123.12	361.23	0	N	500	-42.6	8.6	0.0	0.0	0.0	42.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.2
176	535192.62	4825123.12	361.23	0	N	1000	-42.4	8.6	0.0	0.0	0.0	42.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.1
176	535192.62	4825123.12	361.23	0	N	2000	-42.2	8.6	0.0	0.0	0.0	42.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-73.1
176	535192.62	4825123.12	361.23	0	N	4000	-45.4	8.6	0.0	0.0	0.0	42.1	1.2	-3.0	0.0	0.0	0.0	0.0	0.0	-77.1
176	535192.62	4825123.12	361.23	0	N	8000	-56.5	8.6	0.0	0.0	0.0	42.1	4.2	-3.0	0.0	0.0	0.0	0.0	0.0	-91.2
176	535192.62	4825123.12	361.23	0	E	32	-154.8	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-185.3
176	535192.62	4825123.12	361.23	0	E	63	-55.6	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-86.1
176	535192.62	4825123.12	361.23	0	E	125	-50.5	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.0
176	535192.62	4825123.12	361.23	0	E	250	-50.0	8.6	0.0	0.0	0.0	42.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.6
176	535192.62	4825123.12	361.23	0	E	500	-42.6	8.6	0.0	0.0	0.0	42.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.2
176	535192.62	4825123.12	361.23	0	E	1000	-42.4	8.6	0.0	0.0	0.0	42.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-73.1
176	535192.62	4825123.12	361.23	0	E	2000	-42.2	8.6	0.0	0.0	0.0	42.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-73.1
176	535192.62	4825123.12	361.23	0	E	4000	-45.4	8.6	0.0	0.0	0.0	42.1	1.2	-3.0	0.0	0.0	0.0	0.0	0.0	-77.1
176	535192.62	4825123.12	361.23	0	E	8000	-56.5	8.6	0.0	0.0	0.0	42.1	4.2	-3.0	0.0	0.0	0.0	0.0	0.0	-91.2
197	535190.38	4825116.17	361.24	0	D	32	-54.8	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-86.3
197	535190.38	4825116.17	361.24	0	D	63	44.4	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	12.9
197	535190.38	4825116.17	361.24	0	D	125	49.5	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	18.0
197	535190.38	4825116.17	361.24	0	D	250	50.0	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	18.5
197	535190.38	4825116.17	361.24	0	D	500	57.4	9.2	0.0	0.0	0.0	43.7	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	25.8
197	535190.38	4825116.17	361.24	0	D	1000	57.6	9.2	0.0	0.0	0.0	43.7	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	26.0
197	535190.38	4825116.17	361.24	0	D	2000	57.8	9.2	0.0	0.0	0.0	43.7	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	25.9
197	535190.38	4825116.17	361.24	0	D	4000	54.6	9.2	0.0	0.0	0.0	43.7	1.4	-3.0	0.0	0.0	0.0	0.0	0.0	21.7
197	535190.38	4825116.17	361.24	0	D	8000	43.5	9.2	0.0	0.0	0.0	43.7	5.0	-3.0	0.0	0.0	0.0	0.0	0.0	7.0
197	535190.38	4825116.17	361.24	0	N	32	-154.8	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.3
197	535190.38	4825116.17	361.24	0	N	63	-55.6	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-87.1
197	535190.38	4825116.17	361.24	0	N	125	-50.5	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.0
197	535190.38	4825116.17	361.24	0	N	250	-50.0	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.5
197	535190.38	4825116.17	361.24	0	N	500	-42.6	9.2	0.0	0.0	0.0	43.7	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.2
197	535190.38	4825116.17	361.24	0	N	1000	-42.4	9.2	0.0	0.0	0.0	43.7	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-74.0
197	535190.38	4825116.17	361.24	0	N	2000	-42.2	9.2	0.0	0.0	0.0	43.7	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	-74.1
197	535190.38	4825116.17	361.24	0	N	4000	-45.4	9.2	0.0	0.0	0.0	43.7	1.4	-3.0	0.0	0.0	0.0	0.0	0.0	-78.3
197	535190.38	4825116.17	361.24	0	N	8000	-56.5	9.2	0.0	0.0	0.0	43.7	5.0	-3.0	0.0	0.0	0.0	0.0	0.0	-93.0
197	535190.38	4825116.17	361.24	0	E	32	-154.8	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.3
197	535190.38	4825116.17	361.24	0	E	63	-55.6	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-87.1
197	535190.38	4825116.17	361.24	0	E	125	-50.5	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.0
197	535190.38	4825116.17	361.24	0	E	250	-50.0	9.2	0.0	0.0	0.0	43.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.5
197	535190.38	4825116.17	361.24	0	E	500	-42.6	9.2	0.0	0.0	0.0	43.7	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.2
197	535190.38	4825116.17	361.24	0	E	1000	-42.4	9.2	0.0	0.0	0.0	43.7	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-74.0
197	535190.38	4825116.17	361.24	0	E	2000	-42.2	9.2	0.0	0.0	0.0	43.7	0.4	-3.0	0.0	0.0	0.0	0.0	0.0	-74.1
197	535190.38	4825116.17	361.24	0	E	4000	-45.4	9.2	0.0	0.0	0.0	43.7	1.4	-3.0	0.0	0.0	0.0	0.0	0.0	-78.3
197	535190.38	4825116.17	361.24	0	E	8000	-56.5	9.2	0.0	0.0	0.0	43.7	5.0	-3.0	0.0	0.0	0.0	0.0	0.0	-93.0

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movement", ID: "IOE001TR01"																				
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)
203	535193.48	4825107.30	361.19	0	D	32	-54.8	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-86.7
203	535193.48	4825107.30	361.19	0	D	63	44.4	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	12.5
203	535193.48	4825107.30	361.19	0	D	125	49.5	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.6
203	535193.48	4825107.30	361.19	0	D	250	50.0	10.4	0.0	0.0	0.0	45.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	18.1
203	535193.48	4825107.30	361.19	0	D	500	57.4	10.4	0.0	0.0	0.0	45.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	25.4
203	535193.48	4825107.30	361.19	0	D	1000	57.6	10.4	0.0	0.0	0.0	45.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	25.5
203	535193.48	4825107.30	361.19	0	D	2000	57.8	10.4	0.0	0.0	0.0	45.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	25.4
203	535193.48	4825107.30	361.19	0	D	4000	54.6	10.4	0.0	0.0	0.0	45.3	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	21.0
203	535193.48	4825107.30	361.19	0	D	8000	43.5	10.4	0.0	0.0	0.0	45.3	6.1	-3.0	0.0	0.0	0.0	0.0	0.0	5.6
203	535193.48	4825107.30	361.19	0	N	32	-154.8	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.7
203	535193.48	4825107.30	361.19	0	N	63	-55.6	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-87.5
203	535193.48	4825107.30	361.19	0	N	125	-50.5	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.4
203	535193.48	4825107.30	361.19	0	N	250	-50.0	10.4	0.0	0.0	0.0	45.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-81.9
203	535193.48	4825107.30	361.19	0	N	500	-42.6	10.4	0.0	0.0	0.0	45.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.6
203	535193.48	4825107.30	361.19	0	N	1000	-42.4	10.4	0.0	0.0	0.0	45.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-74.5
203	535193.48	4825107.30	361.19	0	N	2000	-42.2	10.4	0.0	0.0	0.0	45.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-74.6
203	535193.48	4825107.30	361.19	0	N	4000	-45.4	10.4	0.0	0.0	0.0	45.3	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-79.0
203	535193.48	4825107.30	361.19	0	N	8000	-56.5	10.4	0.0	0.0	0.0	45.3	6.1	-3.0	0.0	0.0	0.0	0.0	0.0	-94.4
203	535193.48	4825107.30	361.19	0	E	32	-154.8	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.7
203	535193.48	4825107.30	361.19	0	E	63	-55.6	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-87.5
203	535193.48	4825107.30	361.19	0	E	125	-50.5	10.4	0.0	0.0	0.0	45.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.4
203	535193.48	4825107.30	361.19	0	E	250	-50.0	10.4	0.0	0.0	0.0	45.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-81.9
203	535193.48	4825107.30	361.19	0	E	500	-42.6	10.4	0.0	0.0	0.0	45.3	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.6
203	535193.48	4825107.30	361.19	0	E	1000	-42.4	10.4	0.0	0.0	0.0	45.3	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-74.5
203	535193.48	4825107.30	361.19	0	E	2000	-42.2	10.4	0.0	0.0	0.0	45.3	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-74.6
203	535193.48	4825107.30	361.19	0	E	4000	-45.4	10.4	0.0	0.0	0.0	45.3	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-79.0
203	535193.48	4825107.30	361.19	0	E	8000	-56.5	10.4	0.0	0.0	0.0	45.3	6.1	-3.0	0.0	0.0	0.0	0.0	0.0	-94.4
221	535195.67	4825103.82	361.16	2	D	2000	57.8	3.6	0.0	0.0	0.0	52.8	1.2	-2.4	0.0	0.0	0.0	0.0	2.0	7.8
221	535195.67	4825103.82	361.16	2	D	4000	54.6	3.6	0.0	0.0	0.0	52.8	4.0	-2.4	0.0	0.0	0.0	0.0	2.0	1.8
221	535195.67	4825103.82	361.16	2	D	8000	43.5	3.6	0.0	0.0	0.0	52.8	14.3	-2.4	0.0	0.0	0.0	0.0	2.0	-19.6
221	535195.67	4825103.82	361.16	2	N	2000	-42.2	3.6	0.0	0.0	0.0	52.8	1.2	-2.4	0.0	0.0	0.0	0.0	2.0	-92.2
221	535195.67	4825103.82	361.16	2	N	4000	-45.4	3.6	0.0	0.0	0.0	52.8	4.0	-2.4	0.0	0.0	0.0	0.0	2.0	-98.2
221	535195.67	4825103.82	361.16	2	N	8000	-56.5	3.6	0.0	0.0	0.0	52.8	14.3	-2.4	0.0	0.0	0.0	0.0	2.0	-119.6
221	535195.67	4825103.82	361.16	2	E	2000	-42.2	3.6	0.0	0.0	0.0	52.8	1.2	-2.4	0.0	0.0	0.0	0.0	2.0	-92.2
221	535195.67	4825103.82	361.16	2	E	4000	-45.4	3.6	0.0	0.0	0.0	52.8	4.0	-2.4	0.0	0.0	0.0	0.0	2.0	-98.2
221	535195.67	4825103.82	361.16	2	E	8000	-56.5	3.6	0.0	0.0	0.0	52.8	14.3	-2.4	0.0	0.0	0.0	0.0	2.0	-119.6
228	535176.69	4825109.21	361.34	0	D	32	-54.8	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-86.8
228	535176.69	4825109.21	361.34	0	D	63	44.4	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	12.4
228	535176.69	4825109.21	361.34	0	D	125	49.5	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.5
228	535176.69	4825109.21	361.34	0	D	250	50.0	10.4	0.0	0.0	0.0	45.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	18.0
228	535176.69	4825109.21	361.34	0	D	500	57.4	10.4	0.0	0.0	0.0	45.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	25.3
228	535176.69	4825109.21	361.34	0	D	1000	57.6	10.4	0.0	0.0	0.0	45.4	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	25.4
228	535176.69	4825109.21	361.34	0	D	2000	57.8	10.4	0.0	0.0	0.0	45.4	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	25.3
228	535176.69	4825109.21	361.34	0	D	4000	54.6	10.4	0.0	0.0	0.0	45.4	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	20.9
228	535176.69	4825109.21	361.34	0	D	8000	43.5	10.4	0.0	0.0	0.0	45.4	6.1	-3.0	0.0	0.0	0.0	0.0	0.0	5.4
228	535176.69	4825109.21	361.34	0	N	32	-154.8	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.8
228	535176.69	4825109.21	361.34	0	N	63	-55.6	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-87.6
228	535176.69	4825109.21	361.34	0	N	125	-50.5	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.5
228	535176.69	4825109.21	361.34	0	N	250	-50.0	10.4	0.0	0.0	0.0	45.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-82.0
228	535176.69	4825109.21	361.34	0	N	500	-42.6	10.4	0.0	0.0	0.0	45.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.7
228	535176.69	4825109.21	361.34	0	N	1000	-42.4	10.4	0.0	0.0	0.0	45.4	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-74.6
228	535176.69	4825109.21	361.34	0	N	2000	-42.2	10.4	0.0	0.0	0.0	45.4	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-74.7
228	535176.69	4825109.21	361.34	0	N	4000	-45.4	10.4	0.0	0.0	0.0	45.4	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-79.1
228	535176.69	4825109.21	361.34	0	N	8000	-56.5	10.4	0.0	0.0	0.0	45.4	6.1	-3.0	0.0	0.0	0.0	0.0	0.0	-94.6
228	535176.69	4825109.21	361.34	0	E	32	-154.8	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.8
228	535176.69	4825109.21	361.34	0	E	63	-55.6	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-87.6
228	535176.69	4825109.21	361.34	0	E	125	-50.5	10.4	0.0	0.0	0.0	45.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.5
228	535176.69	4825109.21	361.34	0	E	250	-50.0	10.4	0.0	0.0	0.0	45.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-82.0
228	535176.69	4825109.21	361.34	0	E	500	-42.6	10.4	0.0	0.0	0.0	45.4	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-74.7
228	535176.69	4825109.21	361.34	0	E	1000	-42.4	10.4	0.0	0.0	0.0	45.4	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-74.6
228	535176.69	4825109.21	361.34	0	E	2000	-42.2	10.4	0.0	0.0	0.0	45.4	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-74.7
228	535176.69	4825109.21	361.34	0	E	4000	-45.4	10.4	0.0	0.0	0.0	45.4	1.7	-3.0	0.0	0.0	0.0	0.0	0.0	-79.1
228	535176.69	4825109.21	361.34	0	E	8000	-56.5	10.4	0.0	0.0	0.0	45.4	6.1	-3.0	0.0	0.0	0.0	0.0	0.0	-94.6

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movement", ID: "IOE001TR01"																				
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)
235	535176.69	4825109.21	361.34	1	D	500	57.4	10.4	0.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	23.6
235	535176.69	4825109.21	361.34	1	D	1000	57.6	10.4	0.0	0.0	0.0	46.1	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	23.7
235	535176.69	4825109.21	361.34	1	D	2000	57.8	10.4	0.0	0.0	0.0	46.1	0.5	-3.0	0.0	0.0	0.0	0.0	1.0	23.5
235	535176.69	4825109.21	361.34	1	D	4000	54.6	10.4	0.0	0.0	0.0	46.1	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	19.0
235	535176.69	4825109.21	361.34	1	D	8000	43.5	10.4	0.0	0.0	0.0	46.1	6.6	-3.0	0.0	0.0	0.0	0.0	1.0	3.1
235	535176.69	4825109.21	361.34	1	N	500	-42.6	10.4	0.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	-76.4
235	535176.69	4825109.21	361.34	1	N	1000	-42.4	10.4	0.0	0.0	0.0	46.1	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	-76.3
235	535176.69	4825109.21	361.34	1	N	2000	-42.2	10.4	0.0	0.0	0.0	46.1	0.5	-3.0	0.0	0.0	0.0	0.0	1.0	-76.5
235	535176.69	4825109.21	361.34	1	N	4000	-45.4	10.4	0.0	0.0	0.0	46.1	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	-81.0
235	535176.69	4825109.21	361.34	1	N	8000	-56.5	10.4	0.0	0.0	0.0	46.1	6.6	-3.0	0.0	0.0	0.0	0.0	1.0	-96.9
235	535176.69	4825109.21	361.34	1	E	500	-42.6	10.4	0.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	-76.4
235	535176.69	4825109.21	361.34	1	E	1000	-42.4	10.4	0.0	0.0	0.0	46.1	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	-76.3
235	535176.69	4825109.21	361.34	1	E	2000	-42.2	10.4	0.0	0.0	0.0	46.1	0.5	-3.0	0.0	0.0	0.0	0.0	1.0	-76.5
235	535176.69	4825109.21	361.34	1	E	4000	-45.4	10.4	0.0	0.0	0.0	46.1	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	-81.0
235	535176.69	4825109.21	361.34	1	E	8000	-56.5	10.4	0.0	0.0	0.0	46.1	6.6	-3.0	0.0	0.0	0.0	0.0	1.0	-96.9
240	535176.69	4825109.21	361.34	1	D	250	50.0	10.4	0.0	0.0	0.0	52.5	0.1	-1.7	0.0	0.0	0.0	0.0	1.0	8.5
240	535176.69	4825109.21	361.34	1	D	500	57.4	10.4	0.0	0.0	0.0	52.5	0.2	-2.3	0.0	0.0	0.0	0.0	1.0	16.4
240	535176.69	4825109.21	361.34	1	D	1000	57.6	10.4	0.0	0.0	0.0	52.5	0.4	-2.6	0.0	0.0	0.0	0.0	1.0	16.7
240	535176.69	4825109.21	361.34	1	D	2000	57.8	10.4	0.0	0.0	0.0	52.5	1.1	-2.6	0.0	0.0	0.0	0.0	1.0	16.2
240	535176.69	4825109.21	361.34	1	D	4000	54.6	10.4	0.0	0.0	0.0	52.5	3.9	-2.6	0.0	0.0	0.0	0.0	1.0	10.3
240	535176.69	4825109.21	361.34	1	D	8000	43.5	10.4	0.0	0.0	0.0	52.5	13.8	-2.6	0.0	0.0	0.0	0.0	1.0	-10.7
240	535176.69	4825109.21	361.34	1	N	250	-50.0	10.4	0.0	0.0	0.0	52.5	0.1	-1.7	0.0	0.0	0.0	0.0	1.0	-91.5
240	535176.69	4825109.21	361.34	1	N	500	-42.6	10.4	0.0	0.0	0.0	52.5	0.2	-2.3	0.0	0.0	0.0	0.0	1.0	-83.6
240	535176.69	4825109.21	361.34	1	N	1000	-42.4	10.4	0.0	0.0	0.0	52.5	0.4	-2.6	0.0	0.0	0.0	0.0	1.0	-83.3
240	535176.69	4825109.21	361.34	1	N	2000	-42.2	10.4	0.0	0.0	0.0	52.5	1.1	-2.6	0.0	0.0	0.0	0.0	1.0	-83.8
240	535176.69	4825109.21	361.34	1	N	4000	-45.4	10.4	0.0	0.0	0.0	52.5	3.9	-2.6	0.0	0.0	0.0	0.0	1.0	-89.7
240	535176.69	4825109.21	361.34	1	N	8000	-56.5	10.4	0.0	0.0	0.0	52.5	13.8	-2.6	0.0	0.0	0.0	0.0	1.0	-110.7
240	535176.69	4825109.21	361.34	1	E	250	-50.0	10.4	0.0	0.0	0.0	52.5	0.1	-1.7	0.0	0.0	0.0	0.0	1.0	-91.5
240	535176.69	4825109.21	361.34	1	E	500	-42.6	10.4	0.0	0.0	0.0	52.5	0.2	-2.3	0.0	0.0	0.0	0.0	1.0	-83.6
240	535176.69	4825109.21	361.34	1	E	1000	-42.4	10.4	0.0	0.0	0.0	52.5	0.4	-2.6	0.0	0.0	0.0	0.0	1.0	-83.3
240	535176.69	4825109.21	361.34	1	E	2000	-42.2	10.4	0.0	0.0	0.0	52.5	1.1	-2.6	0.0	0.0	0.0	0.0	1.0	-83.8
240	535176.69	4825109.21	361.34	1	E	4000	-45.4	10.4	0.0	0.0	0.0	52.5	3.9	-2.6	0.0	0.0	0.0	0.0	1.0	-89.7
240	535176.69	4825109.21	361.34	1	E	8000	-56.5	10.4	0.0	0.0	0.0	52.5	13.8	-2.6	0.0	0.0	0.0	0.0	1.0	-110.7
242	535192.32	4825105.75	361.21	0	D	32	-54.8	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-87.2
242	535192.32	4825105.75	361.21	0	D	63	44.4	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	12.0
242	535192.32	4825105.75	361.21	0	D	125	49.5	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.1
242	535192.32	4825105.75	361.21	0	D	250	50.0	10.1	0.0	0.0	0.0	45.6	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	17.5
242	535192.32	4825105.75	361.21	0	D	500	57.4	10.1	0.0	0.0	0.0	45.6	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	24.9
242	535192.32	4825105.75	361.21	0	D	1000	57.6	10.1	0.0	0.0	0.0	45.6	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	25.0
242	535192.32	4825105.75	361.21	0	D	2000	57.8	10.1	0.0	0.0	0.0	45.6	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	24.9
242	535192.32	4825105.75	361.21	0	D	4000	54.6	10.1	0.0	0.0	0.0	45.6	1.8	-3.0	0.0	0.0	0.0	0.0	0.0	20.4
242	535192.32	4825105.75	361.21	0	D	8000	43.5	10.1	0.0	0.0	0.0	45.6	6.2	-3.0	0.0	0.0	0.0	0.0	0.0	4.8
242	535192.32	4825105.75	361.21	0	N	32	-154.8	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-187.2
242	535192.32	4825105.75	361.21	0	N	63	-55.6	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-88.0
242	535192.32	4825105.75	361.21	0	N	125	-50.5	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.9
242	535192.32	4825105.75	361.21	0	N	250	-50.0	10.1	0.0	0.0	0.0	45.6	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-82.5
242	535192.32	4825105.75	361.21	0	N	500	-42.6	10.1	0.0	0.0	0.0	45.6	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-75.1
242	535192.32	4825105.75	361.21	0	N	1000	-42.4	10.1	0.0	0.0	0.0	45.6	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-75.0
242	535192.32	4825105.75	361.21	0	N	2000	-42.2	10.1	0.0	0.0	0.0	45.6	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-75.1
242	535192.32	4825105.75	361.21	0	N	4000	-45.4	10.1	0.0	0.0	0.0	45.6	1.8	-3.0	0.0	0.0	0.0	0.0	0.0	-79.6
242	535192.32	4825105.75	361.21	0	N	8000	-56.5	10.1	0.0	0.0	0.0	45.6	6.2	-3.0	0.0	0.0	0.0	0.0	0.0	-95.2
242	535192.32	4825105.75	361.21	0	E	32	-154.8	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-187.2
242	535192.32	4825105.75	361.21	0	E	63	-55.6	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-88.0
242	535192.32	4825105.75	361.21	0	E	125	-50.5	10.1	0.0	0.0	0.0	45.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-82.9
242	535192.32	4825105.75	361.21	0	E	250	-50.0	10.1	0.0	0.0	0.0	45.6	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-82.5
242	535192.32	4825105.75	361.21	0	E	500	-42.6	10.1	0.0	0.0	0.0	45.6	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-75.1
242	535192.32	4825105.75	361.21	0	E	1000	-42.4	10.1	0.0	0.0	0.0	45.6	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-75.0
242	535192.32	4825105.75	361.21	0	E	2000	-42.2	10.1	0.0	0.0	0.0	45.6	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-75.1
242	535192.32	4825105.75	361.21	0	E	4000	-45.4	10.1	0.0	0.0	0.0	45.6	1.8	-3.0	0.0	0.0	0.0	0.0	0.0	-79.6
242	535192.32	4825105.75	361.21	0	E	8000	-56.5	10.1	0.0	0.0	0.0	45.6	6.2	-3.0	0.0	0.0	0.0	0.0	0.0	-95.2
243	535195.44	4825103.37	361.16	2	D	2000	57.8	3.0	0.0	0.0	0.0	52.7	1.2	-2.4	0.0	0.0	0.0	0.0	2.0	7.2
243	535195.44	4825103.37	361.16	2	D	4000	54.6	3.0	0.0	0.0	0.0	52.7	4.0	-2.4	0.0	0.0	0.0	0.0	2.0	1.2
243	535195.44	4825103.37	361.16	2	D	8000	43.5	3.0	0.0	0.0	0.0	52.7	14.2	-2.4	0.0	0.0	0.0	0.0	2.0	-20.1

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movement", ID: "IOE00!TR01"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
243	535195.44	4825103.37	361.16	2	N	2000	-42.2	3.0	0.0	0.0	0.0	52.7	1.2	-2.4	0.0	0.0	0.0	0.0	2.0	-92.8
243	535195.44	4825103.37	361.16	2	N	4000	-45.4	3.0	0.0	0.0	0.0	52.7	4.0	-2.4	0.0	0.0	0.0	0.0	2.0	-98.8
243	535195.44	4825103.37	361.16	2	N	8000	-56.5	3.0	0.0	0.0	0.0	52.7	14.2	-2.4	0.0	0.0	0.0	0.0	2.0	-120.1
243	535195.44	4825103.37	361.16	2	E	2000	-42.2	3.0	0.0	0.0	0.0	52.7	1.2	-2.4	0.0	0.0	0.0	0.0	2.0	-92.8
243	535195.44	4825103.37	361.16	2	E	4000	-45.4	3.0	0.0	0.0	0.0	52.7	4.0	-2.4	0.0	0.0	0.0	0.0	2.0	-98.8
243	535195.44	4825103.37	361.16	2	E	8000	-56.5	3.0	0.0	0.0	0.0	52.7	14.2	-2.4	0.0	0.0	0.0	0.0	2.0	-120.1
244	535185.15	4825109.60	361.29	0	D	32	-54.8	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-88.8
244	535185.15	4825109.60	361.29	0	D	63	44.4	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	10.4
244	535185.15	4825109.60	361.29	0	D	125	49.5	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	15.4
244	535185.15	4825109.60	361.29	0	D	250	50.0	8.0	0.0	0.0	0.0	45.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	15.9
244	535185.15	4825109.60	361.29	0	D	500	57.4	8.0	0.0	0.0	0.0	45.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	23.3
244	535185.15	4825109.60	361.29	0	D	1000	57.6	8.0	0.0	0.0	0.0	45.0	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	23.4
244	535185.15	4825109.60	361.29	0	D	2000	57.8	8.0	0.0	0.0	0.0	45.0	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	23.3
244	535185.15	4825109.60	361.29	0	D	4000	54.6	8.0	0.0	0.0	0.0	45.0	1.6	-3.0	0.0	0.0	0.0	0.0	0.0	18.9
244	535185.15	4825109.60	361.29	0	D	8000	43.5	8.0	0.0	0.0	0.0	45.0	5.9	-3.0	0.0	0.0	0.0	0.0	0.0	3.6
244	535185.15	4825109.60	361.29	0	N	32	-154.8	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-188.8
244	535185.15	4825109.60	361.29	0	N	63	-55.6	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-89.6
244	535185.15	4825109.60	361.29	0	N	125	-50.5	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.6
244	535185.15	4825109.60	361.29	0	N	250	-50.0	8.0	0.0	0.0	0.0	45.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-84.1
244	535185.15	4825109.60	361.29	0	N	500	-42.6	8.0	0.0	0.0	0.0	45.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-76.7
244	535185.15	4825109.60	361.29	0	N	1000	-42.4	8.0	0.0	0.0	0.0	45.0	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-76.6
244	535185.15	4825109.60	361.29	0	N	2000	-42.2	8.0	0.0	0.0	0.0	45.0	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-76.7
244	535185.15	4825109.60	361.29	0	N	4000	-45.4	8.0	0.0	0.0	0.0	45.0	1.6	-3.0	0.0	0.0	0.0	0.0	0.0	-81.1
244	535185.15	4825109.60	361.29	0	N	8000	-56.5	8.0	0.0	0.0	0.0	45.0	5.9	-3.0	0.0	0.0	0.0	0.0	0.0	-96.4
244	535185.15	4825109.60	361.29	0	E	32	-154.8	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-188.8
244	535185.15	4825109.60	361.29	0	E	63	-55.6	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-89.6
244	535185.15	4825109.60	361.29	0	E	125	-50.5	8.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.6
244	535185.15	4825109.60	361.29	0	E	250	-50.0	8.0	0.0	0.0	0.0	45.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-84.1
244	535185.15	4825109.60	361.29	0	E	500	-42.6	8.0	0.0	0.0	0.0	45.0	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-76.7
244	535185.15	4825109.60	361.29	0	E	1000	-42.4	8.0	0.0	0.0	0.0	45.0	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-76.6
244	535185.15	4825109.60	361.29	0	E	2000	-42.2	8.0	0.0	0.0	0.0	45.0	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-76.7
244	535185.15	4825109.60	361.29	0	E	4000	-45.4	8.0	0.0	0.0	0.0	45.0	1.6	-3.0	0.0	0.0	0.0	0.0	0.0	-81.1
244	535185.15	4825109.60	361.29	0	E	8000	-56.5	8.0	0.0	0.0	0.0	45.0	5.9	-3.0	0.0	0.0	0.0	0.0	0.0	-96.4
245	535182.50	4825110.23	361.31	1	D	1000	57.6	-0.8	0.0	0.0	0.0	46.3	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	12.2
245	535182.50	4825110.23	361.31	1	D	2000	57.8	-0.8	0.0	0.0	0.0	46.3	0.6	-3.0	0.0	0.0	0.0	0.0	1.0	12.1
245	535182.50	4825110.23	361.31	1	D	4000	54.6	-0.8	0.0	0.0	0.0	46.3	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	7.5
245	535182.50	4825110.23	361.31	1	D	8000	43.5	-0.8	0.0	0.0	0.0	46.3	6.8	-3.0	0.0	0.0	0.0	0.0	1.0	-8.5
245	535182.50	4825110.23	361.31	1	N	1000	-42.4	-0.8	0.0	0.0	0.0	46.3	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	-87.8
245	535182.50	4825110.23	361.31	1	N	2000	-42.2	-0.8	0.0	0.0	0.0	46.3	0.6	-3.0	0.0	0.0	0.0	0.0	1.0	-87.9
245	535182.50	4825110.23	361.31	1	N	4000	-45.4	-0.8	0.0	0.0	0.0	46.3	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	-92.5
245	535182.50	4825110.23	361.31	1	N	8000	-56.5	-0.8	0.0	0.0	0.0	46.3	6.8	-3.0	0.0	0.0	0.0	0.0	1.0	-108.5
245	535182.50	4825110.23	361.31	1	E	1000	-42.4	-0.8	0.0	0.0	0.0	46.3	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	-87.8
245	535182.50	4825110.23	361.31	1	E	2000	-42.2	-0.8	0.0	0.0	0.0	46.3	0.6	-3.0	0.0	0.0	0.0	0.0	1.0	-87.9
245	535182.50	4825110.23	361.31	1	E	4000	-45.4	-0.8	0.0	0.0	0.0	46.3	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	-92.5
245	535182.50	4825110.23	361.31	1	E	8000	-56.5	-0.8	0.0	0.0	0.0	46.3	6.8	-3.0	0.0	0.0	0.0	0.0	1.0	-108.5
251	535183.10	4825110.09	361.30	1	D	250	50.0	3.2	0.0	0.0	0.0	52.5	0.1	0.4	0.0	0.0	0.0	0.0	1.0	-0.9
251	535183.10	4825110.09	361.30	1	D	500	57.4	3.2	0.0	0.0	0.0	52.5	0.2	-1.3	0.0	0.0	0.0	0.0	1.0	8.0
251	535183.10	4825110.09	361.30	1	D	1000	57.6	3.2	0.0	0.0	0.0	52.5	0.4	-2.0	0.0	0.0	0.0	0.0	1.0	8.8
251	535183.10	4825110.09	361.30	1	D	2000	57.8	3.2	0.0	0.0	0.0	52.5	1.2	-2.1	0.0	0.0	0.0	0.0	1.0	8.3
251	535183.10	4825110.09	361.30	1	D	4000	54.6	3.2	0.0	0.0	0.0	52.5	3.9	-2.1	0.0	0.0	0.0	0.0	1.0	2.4
251	535183.10	4825110.09	361.30	1	D	8000	43.5	3.2	0.0	0.0	0.0	52.5	13.9	-2.1	0.0	0.0	0.0	0.0	1.0	-18.8
251	535183.10	4825110.09	361.30	1	N	250	-50.0	3.2	0.0	0.0	0.0	52.5	0.1	0.4	0.0	0.0	0.0	0.0	1.0	-100.9
251	535183.10	4825110.09	361.30	1	N	500	-42.6	3.2	0.0	0.0	0.0	52.5	0.2	-1.3	0.0	0.0	0.0	0.0	1.0	-92.0
251	535183.10	4825110.09	361.30	1	N	1000	-42.4	3.2	0.0	0.0	0.0	52.5	0.4	-2.0	0.0	0.0	0.0	0.0	1.0	-91.2
251	535183.10	4825110.09	361.30	1	N	2000	-42.2	3.2	0.0	0.0	0.0	52.5	1.2	-2.1	0.0	0.0	0.0	0.0	1.0	-91.7
251	535183.10	4825110.09	361.30	1	N	4000	-45.4	3.2	0.0	0.0	0.0	52.5	3.9	-2.1	0.0	0.0	0.0	0.0	1.0	-97.6
251	535183.10	4825110.09	361.30	1	N	8000	-56.5	3.2	0.0	0.0	0.0	52.5	13.9	-2.1	0.0	0.0	0.0	0.0	1.0	-118.8
251	535183.10	4825110.09	361.30	1	E	250	-50.0	3.2	0.0	0.0	0.0	52.5	0.1	0.4	0.0	0.0	0.0	0.0	1.0	-100.9
251	535183.10	4825110.09	361.30	1	E	500	-42.6	3.2	0.0	0.0	0.0	52.5	0.2	-1.3	0.0	0.0	0.0	0.0	1.0	-92.0
251	535183.10	4825110.09	361.30	1	E	1000	-42.4	3.2	0.0	0.0	0.0	52.5	0.4	-2.0	0.0	0.0	0.0	0.0	1.0	-91.2
251	535183.10	4825110.09	361.30	1	E	2000	-42.2	3.2	0.0	0.0	0.0	52.5	1.2	-2.1	0.0	0.0	0.0	0.0	1.0	-91.7
251	535183.10	4825110.09	361.30	1	E	4000	-45.4	3.2	0.0	0.0	0.0	52.5	3.9	-2.1	0.0	0.0	0.0	0.0	1.0	-97.6
251	535183.10	4825110.09	361.30	1	E	8000	-56.5	3.2	0.0	0.0	0.0	52.5	13.9	-2.1	0.0	0.0	0.0	0.0	1.0	-118.8

Line Source, ISO 9613, Name: "Contour Drilling - Truck Movement", ID: "I0E00!TR01"																				
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)
252	535185.33	4825109.56	361.28	1	D	500	57.4	3.7	0.0	0.0	0.0	56.3	0.4	-1.5	0.0	0.0	0.0	0.0	1.0	4.9
252	535185.33	4825109.56	361.28	1	D	1000	57.6	3.7	0.0	0.0	0.0	56.3	0.7	-2.1	0.0	0.0	0.0	0.0	1.0	5.4
252	535185.33	4825109.56	361.28	1	D	2000	57.8	3.7	0.0	0.0	0.0	56.3	1.8	-2.1	0.0	0.0	0.0	0.0	1.0	4.6
252	535185.33	4825109.56	361.28	1	D	4000	54.6	3.7	0.0	0.0	0.0	56.3	6.0	-2.1	0.0	0.0	0.0	0.0	1.0	-2.9
252	535185.33	4825109.56	361.28	1	D	8000	43.5	3.7	0.0	0.0	0.0	56.3	21.5	-2.1	0.0	0.0	0.0	0.0	1.0	-29.5
252	535185.33	4825109.56	361.28	1	N	500	-42.6	3.7	0.0	0.0	0.0	56.3	0.4	-1.5	0.0	0.0	0.0	0.0	1.0	-95.1
252	535185.33	4825109.56	361.28	1	N	1000	-42.4	3.7	0.0	0.0	0.0	56.3	0.7	-2.1	0.0	0.0	0.0	0.0	1.0	-94.6
252	535185.33	4825109.56	361.28	1	N	2000	-42.2	3.7	0.0	0.0	0.0	56.3	1.8	-2.1	0.0	0.0	0.0	0.0	1.0	-95.4
252	535185.33	4825109.56	361.28	1	N	4000	-45.4	3.7	0.0	0.0	0.0	56.3	6.0	-2.1	0.0	0.0	0.0	0.0	1.0	-102.9
252	535185.33	4825109.56	361.28	1	N	8000	-56.5	3.7	0.0	0.0	0.0	56.3	21.5	-2.1	0.0	0.0	0.0	0.0	1.0	-129.5
252	535185.33	4825109.56	361.28	1	E	500	-42.6	3.7	0.0	0.0	0.0	56.3	0.4	-1.5	0.0	0.0	0.0	0.0	1.0	-95.1
252	535185.33	4825109.56	361.28	1	E	1000	-42.4	3.7	0.0	0.0	0.0	56.3	0.7	-2.1	0.0	0.0	0.0	0.0	1.0	-94.6
252	535185.33	4825109.56	361.28	1	E	2000	-42.2	3.7	0.0	0.0	0.0	56.3	1.8	-2.1	0.0	0.0	0.0	0.0	1.0	-95.4
252	535185.33	4825109.56	361.28	1	E	4000	-45.4	3.7	0.0	0.0	0.0	56.3	6.0	-2.1	0.0	0.0	0.0	0.0	1.0	-102.9
252	535185.33	4825109.56	361.28	1	E	8000	-56.5	3.7	0.0	0.0	0.0	56.3	21.5	-2.1	0.0	0.0	0.0	0.0	1.0	-129.5

Point Source, ISO 9613, Name: "Contour Drilling - Idling Truck", ID: "I0E00!S01"																				
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)
77	535174.10	4825137.26	361.38	0	D	32	44.6	0.0	-10.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-2.5
77	535174.10	4825137.26	361.38	0	D	63	60.8	0.0	-10.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	13.7
77	535174.10	4825137.26	361.38	0	D	125	74.9	0.0	-10.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	27.7
77	535174.10	4825137.26	361.38	0	D	250	81.4	0.0	-10.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	34.2
77	535174.10	4825137.26	361.38	0	D	500	83.8	0.0	-10.0	0.0	0.0	40.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	36.6
77	535174.10	4825137.26	361.38	0	D	1000	83.0	0.0	-10.0	0.0	0.0	40.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	35.7
77	535174.10	4825137.26	361.38	0	D	2000	81.2	0.0	-10.0	0.0	0.0	40.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	33.8
77	535174.10	4825137.26	361.38	0	D	4000	74.0	0.0	-10.0	0.0	0.0	40.1	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	25.9
77	535174.10	4825137.26	361.38	0	D	8000	64.9	0.0	-10.0	0.0	0.0	40.1	3.3	-3.0	0.0	0.0	0.0	0.0	0.0	14.4
77	535174.10	4825137.26	361.38	0	N	32	44.6	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-180.5
77	535174.10	4825137.26	361.38	0	N	63	60.8	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-164.3
77	535174.10	4825137.26	361.38	0	N	125	74.9	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-150.3
77	535174.10	4825137.26	361.38	0	N	250	81.4	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-143.8
77	535174.10	4825137.26	361.38	0	N	500	83.8	0.0	-188.0	0.0	0.0	40.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-141.4
77	535174.10	4825137.26	361.38	0	N	1000	83.0	0.0	-188.0	0.0	0.0	40.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-142.3
77	535174.10	4825137.26	361.38	0	N	2000	81.2	0.0	-188.0	0.0	0.0	40.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-144.2
77	535174.10	4825137.26	361.38	0	N	4000	74.0	0.0	-188.0	0.0	0.0	40.1	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	-152.1
77	535174.10	4825137.26	361.38	0	N	8000	64.9	0.0	-188.0	0.0	0.0	40.1	3.3	-3.0	0.0	0.0	0.0	0.0	0.0	-163.6
77	535174.10	4825137.26	361.38	0	E	32	44.6	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-180.5
77	535174.10	4825137.26	361.38	0	E	63	60.8	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-164.3
77	535174.10	4825137.26	361.38	0	E	125	74.9	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-150.3
77	535174.10	4825137.26	361.38	0	E	250	81.4	0.0	-188.0	0.0	0.0	40.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-143.8
77	535174.10	4825137.26	361.38	0	E	500	83.8	0.0	-188.0	0.0	0.0	40.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-141.4
77	535174.10	4825137.26	361.38	0	E	1000	83.0	0.0	-188.0	0.0	0.0	40.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-142.3
77	535174.10	4825137.26	361.38	0	E	2000	81.2	0.0	-188.0	0.0	0.0	40.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	-144.2
77	535174.10	4825137.26	361.38	0	E	4000	74.0	0.0	-188.0	0.0	0.0	40.1	0.9	-3.0	0.0	0.0	0.0	0.0	0.0	-152.1
77	535174.10	4825137.26	361.38	0	E	8000	64.9	0.0	-188.0	0.0	0.0	40.1	3.3	-3.0	0.0	0.0	0.0	0.0	0.0	-163.6
83	535174.10	4825137.26	361.38	1	D	500	83.8	0.0	-10.0	0.0	0.0	54.3	0.3	-2.7	0.0	0.0	0.0	0.0	1.0	20.9
83	535174.10	4825137.26	361.38	1	D	1000	83.0	0.0	-10.0	0.0	0.0	54.3	0.5	-2.8	0.0	0.0	0.0	0.0	1.0	20.0
83	535174.10	4825137.26	361.38	1	D	2000	81.2	0.0	-10.0	0.0	0.0	54.3	1.4	-2.8	0.0	0.0	0.0	0.0	1.0	17.3
83	535174.10	4825137.26	361.38	1	D	4000	74.0	0.0	-10.0	0.0	0.0	54.3	4.8	-2.8	0.0	0.0	0.0	0.0	1.0	6.7
83	535174.10	4825137.26	361.38	1	D	8000	64.9	0.0	-10.0	0.0	0.0	54.3	17.1	-2.8	0.0	0.0	0.0	0.0	1.0	-14.7
83	535174.10	4825137.26	361.38	1	N	500	83.8	0.0	-188.0	0.0	0.0	54.3	0.3	-2.7	0.0	0.0	0.0	0.0	1.0	-157.1
83	535174.10	4825137.26	361.38	1	N	1000	83.0	0.0	-188.0	0.0	0.0	54.3	0.5	-2.8	0.0	0.0	0.0	0.0	1.0	-158.0
83	535174.10	4825137.26	361.38	1	N	2000	81.2	0.0	-188.0	0.0	0.0	54.3	1.4	-2.8	0.0	0.0	0.0	0.0	1.0	-160.7
83	535174.10	4825137.26	361.38	1	N	4000	74.0	0.0	-188.0	0.0	0.0	54.3	4.8	-2.8	0.0	0.0	0.0	0.0	1.0	-171.3
83	535174.10	4825137.26	361.38	1	N	8000	64.9	0.0	-188.0	0.0	0.0	54.3	17.1	-2.8	0.0	0.0	0.0	0.0	1.0	-192.7
83	535174.10	4825137.26	361.38	1	E	500	83.8	0.0	-188.0	0.0	0.0	54.3	0.3	-2.7	0.0	0.0	0.0	0.0	1.0	-157.1
83	535174.10	4825137.26	361.38	1	E	1000	83.0	0.0	-188.0	0.0	0.0	54.3	0.5	-2.8	0.0	0.0	0.0	0.0	1.0	-158.0
83	535174.10	4825137.26	361.38	1	E	2000	81.2	0.0	-188.0	0.0	0.0	54.3	1.4	-2.8	0.0	0.0	0.0	0.0	1.0	-160.7
83	535174.10	4825137.26	361.38	1	E	4000	74.0	0.0	-188.0	0.0	0.0	54.3	4.8	-2.8	0.0	0.0	0.0	0.0	1.0	-171.3
83	535174.10	4825137.26	361.38	1	E	8000	64.9	0.0	-188.0	0.0	0.0	54.3	17.1	-2.8	0.0	0.0	0.0	0.0	1.0	-192.7
85	535174.10	4825137.26	361.38	2	D	2000	81.2	0.0	-10.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	2.0	16.1
85	535174.10	4825137.26	361.38	2	D	4000	74.0	0.0	-10.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	2.0	5.5

Point Source, ISO 9613, Name: "Contour Drilling - Idling Truck", ID: "!0E00!S01"																				
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)
85	535174.10	4825137.26	361.38	2	D	8000	64.9	0.0	-10.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	2.0	-16.0
85	535174.10	4825137.26	361.38	2	N	2000	81.2	0.0	-188.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	2.0	-161.9
85	535174.10	4825137.26	361.38	2	N	4000	74.0	0.0	-188.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	2.0	-172.5
85	535174.10	4825137.26	361.38	2	N	8000	64.9	0.0	-188.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	2.0	-194.0
85	535174.10	4825137.26	361.38	2	E	2000	81.2	0.0	-188.0	0.0	0.0	54.3	1.4	-2.7	0.0	0.0	0.0	0.0	2.0	-161.9
85	535174.10	4825137.26	361.38	2	E	4000	74.0	0.0	-188.0	0.0	0.0	54.3	4.8	-2.7	0.0	0.0	0.0	0.0	2.0	-172.5
85	535174.10	4825137.26	361.38	2	E	8000	64.9	0.0	-188.0	0.0	0.0	54.3	17.2	-2.7	0.0	0.0	0.0	0.0	2.0	-194.0

Point Source, ISO 9613, Name: "Contour Drilling - Idling Truck", ID: "!0E00!S02"																				
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)
179	535172.07	4825107.72	361.37	0	D	32	44.6	0.0	-13.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-11.3
179	535172.07	4825107.72	361.37	0	D	63	60.8	0.0	-13.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	4.9
179	535172.07	4825107.72	361.37	0	D	125	74.9	0.0	-13.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.0
179	535172.07	4825107.72	361.37	0	D	250	81.4	0.0	-13.0	0.0	0.0	45.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	25.5
179	535172.07	4825107.72	361.37	0	D	500	83.8	0.0	-13.0	0.0	0.0	45.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	27.8
179	535172.07	4825107.72	361.37	0	D	1000	83.0	0.0	-13.0	0.0	0.0	45.9	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	26.9
179	535172.07	4825107.72	361.37	0	D	2000	81.2	0.0	-13.0	0.0	0.0	45.9	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	24.8
179	535172.07	4825107.72	361.37	0	D	4000	74.0	0.0	-13.0	0.0	0.0	45.9	1.8	-3.0	0.0	0.0	0.0	0.0	0.0	16.3
179	535172.07	4825107.72	361.37	0	D	8000	64.9	0.0	-13.0	0.0	0.0	45.9	6.5	-3.0	0.0	0.0	0.0	0.0	0.0	2.6
179	535172.07	4825107.72	361.37	0	N	32	44.6	0.0	-188.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.3
179	535172.07	4825107.72	361.37	0	N	63	60.8	0.0	-188.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-170.1
179	535172.07	4825107.72	361.37	0	N	125	74.9	0.0	-188.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-156.0
179	535172.07	4825107.72	361.37	0	N	250	81.4	0.0	-188.0	0.0	0.0	45.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-149.5
179	535172.07	4825107.72	361.37	0	N	500	83.8	0.0	-188.0	0.0	0.0	45.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-147.2
179	535172.07	4825107.72	361.37	0	N	1000	83.0	0.0	-188.0	0.0	0.0	45.9	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-148.1
179	535172.07	4825107.72	361.37	0	N	2000	81.2	0.0	-188.0	0.0	0.0	45.9	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-150.2
179	535172.07	4825107.72	361.37	0	N	4000	74.0	0.0	-188.0	0.0	0.0	45.9	1.8	-3.0	0.0	0.0	0.0	0.0	0.0	-158.7
179	535172.07	4825107.72	361.37	0	N	8000	64.9	0.0	-188.0	0.0	0.0	45.9	6.5	-3.0	0.0	0.0	0.0	0.0	0.0	-172.4
179	535172.07	4825107.72	361.37	0	E	32	44.6	0.0	-188.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-186.3
179	535172.07	4825107.72	361.37	0	E	63	60.8	0.0	-188.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-170.1
179	535172.07	4825107.72	361.37	0	E	125	74.9	0.0	-188.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-156.0
179	535172.07	4825107.72	361.37	0	E	250	81.4	0.0	-188.0	0.0	0.0	45.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-149.5
179	535172.07	4825107.72	361.37	0	E	500	83.8	0.0	-188.0	0.0	0.0	45.9	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	-147.2
179	535172.07	4825107.72	361.37	0	E	1000	83.0	0.0	-188.0	0.0	0.0	45.9	0.2	-3.0	0.0	0.0	0.0	0.0	0.0	-148.1
179	535172.07	4825107.72	361.37	0	E	2000	81.2	0.0	-188.0	0.0	0.0	45.9	0.5	-3.0	0.0	0.0	0.0	0.0	0.0	-150.2
179	535172.07	4825107.72	361.37	0	E	4000	74.0	0.0	-188.0	0.0	0.0	45.9	1.8	-3.0	0.0	0.0	0.0	0.0	0.0	-158.7
179	535172.07	4825107.72	361.37	0	E	8000	64.9	0.0	-188.0	0.0	0.0	45.9	6.5	-3.0	0.0	0.0	0.0	0.0	0.0	-172.4
181	535172.07	4825107.72	361.37	1	D	250	81.4	0.0	-13.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	24.2
181	535172.07	4825107.72	361.37	1	D	500	83.8	0.0	-13.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	26.6
181	535172.07	4825107.72	361.37	1	D	1000	83.0	0.0	-13.0	0.0	0.0	46.1	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	25.7
181	535172.07	4825107.72	361.37	1	D	2000	81.2	0.0	-13.0	0.0	0.0	46.1	0.5	-3.0	0.0	0.0	0.0	0.0	1.0	23.5
181	535172.07	4825107.72	361.37	1	D	4000	74.0	0.0	-13.0	0.0	0.0	46.1	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	15.0
181	535172.07	4825107.72	361.37	1	D	8000	64.9	0.0	-13.0	0.0	0.0	46.1	6.6	-3.0	0.0	0.0	0.0	0.0	1.0	1.1
181	535172.07	4825107.72	361.37	1	N	250	81.4	0.0	-188.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	-150.8
181	535172.07	4825107.72	361.37	1	N	500	83.8	0.0	-188.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	-148.4
181	535172.07	4825107.72	361.37	1	N	1000	83.0	0.0	-188.0	0.0	0.0	46.1	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	-149.3
181	535172.07	4825107.72	361.37	1	N	2000	81.2	0.0	-188.0	0.0	0.0	46.1	0.5	-3.0	0.0	0.0	0.0	0.0	1.0	-151.5
181	535172.07	4825107.72	361.37	1	N	4000	74.0	0.0	-188.0	0.0	0.0	46.1	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	-160.0
181	535172.07	4825107.72	361.37	1	N	8000	64.9	0.0	-188.0	0.0	0.0	46.1	6.6	-3.0	0.0	0.0	0.0	0.0	1.0	-173.8
181	535172.07	4825107.72	361.37	1	E	250	81.4	0.0	-188.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	-150.8
181	535172.07	4825107.72	361.37	1	E	500	83.8	0.0	-188.0	0.0	0.0	46.1	0.1	-3.0	0.0	0.0	0.0	0.0	1.0	-148.4
181	535172.07	4825107.72	361.37	1	E	1000	83.0	0.0	-188.0	0.0	0.0	46.1	0.2	-3.0	0.0	0.0	0.0	0.0	1.0	-149.3
181	535172.07	4825107.72	361.37	1	E	2000	81.2	0.0	-188.0	0.0	0.0	46.1	0.5	-3.0	0.0	0.0	0.0	0.0	1.0	-151.5
181	535172.07	4825107.72	361.37	1	E	4000	74.0	0.0	-188.0	0.0	0.0	46.1	1.9	-3.0	0.0	0.0	0.0	0.0	1.0	-160.0
181	535172.07	4825107.72	361.37	1	E	8000	64.9	0.0	-188.0	0.0	0.0	46.1	6.6	-3.0	0.0	0.0	0.0	0.0	1.0	-173.8
194	535172.07	4825107.72	361.37	1	D	250	81.4	0.0	-13.0	0.0	0.0	52.4	0.1	-1.0	0.0	0.0	0.0	0.0	1.0	15.9
194	535172.07	4825107.72	361.37	1	D	500	83.8	0.0	-13.0	0.0	0.0	52.4	0.2	-2.0	0.0	0.0	0.0	0.0	1.0	19.2
194	535172.07	4825107.72	361.37	1	D	1000	83.0	0.0	-13.0	0.0	0.0	52.4	0.4	-2.4	0.0	0.0	0.0	0.0	1.0	18.6
194	535172.07	4825107.72	361.37	1	D	2000	81.2	0.0	-13.0	0.0	0.0	52.4	1.1	-2.5	0.0	0.0	0.0	0.0	1.0	16.1
194	535172.07	4825107.72	361.37	1	D	4000	74.0	0.0	-13.0	0.0	0.0	52.4	3.8	-2.5	0.0	0.0	0.0	0.0	1.0	6.2
194	535172.07	4825107.72	361.37	1	D	8000	64.9	0.0	-13.0	0.0	0.0	52.4	13.7	-2.5	0.0	0.0	0.0	0.0	1.0	-12.7
194	535172.07	4825107.72	361.37	1	N	250	81.4	0.0	-188.0	0.0	0.0	52.4	0.1	-1.0	0.0	0.0	0.0	0.0	1.0	-159.1

Point Source, ISO 9613, Name: "Contour Drilling - Idling Truck", ID: "!0E00!S02"																				
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)
194	535172.07	4825107.72	361.37	1	N	500	83.8	0.0	-188.0	0.0	0.0	52.4	0.2	-2.0	0.0	0.0	0.0	0.0	1.0	-155.8
194	535172.07	4825107.72	361.37	1	N	1000	83.0	0.0	-188.0	0.0	0.0	52.4	0.4	-2.4	0.0	0.0	0.0	0.0	1.0	-156.4
194	535172.07	4825107.72	361.37	1	N	2000	81.2	0.0	-188.0	0.0	0.0	52.4	1.1	-2.5	0.0	0.0	0.0	0.0	1.0	-158.8
194	535172.07	4825107.72	361.37	1	N	4000	74.0	0.0	-188.0	0.0	0.0	52.4	3.8	-2.5	0.0	0.0	0.0	0.0	1.0	-168.7
194	535172.07	4825107.72	361.37	1	N	8000	64.9	0.0	-188.0	0.0	0.0	52.4	13.7	-2.5	0.0	0.0	0.0	0.0	1.0	-187.7
194	535172.07	4825107.72	361.37	1	E	250	81.4	0.0	-188.0	0.0	0.0	52.4	0.1	-1.0	0.0	0.0	0.0	0.0	1.0	-159.1
194	535172.07	4825107.72	361.37	1	E	500	83.8	0.0	-188.0	0.0	0.0	52.4	0.2	-2.0	0.0	0.0	0.0	0.0	1.0	-155.8
194	535172.07	4825107.72	361.37	1	E	1000	83.0	0.0	-188.0	0.0	0.0	52.4	0.4	-2.4	0.0	0.0	0.0	0.0	1.0	-156.4
194	535172.07	4825107.72	361.37	1	E	2000	81.2	0.0	-188.0	0.0	0.0	52.4	1.1	-2.5	0.0	0.0	0.0	0.0	1.0	-158.8
194	535172.07	4825107.72	361.37	1	E	4000	74.0	0.0	-188.0	0.0	0.0	52.4	3.8	-2.5	0.0	0.0	0.0	0.0	1.0	-168.7
194	535172.07	4825107.72	361.37	1	E	8000	64.9	0.0	-188.0	0.0	0.0	52.4	13.7	-2.5	0.0	0.0	0.0	0.0	1.0	-187.7

Receiver

Name: Block 13 Worst-Case POW - 1.2 m setback

ID: !07!POR-13a

X: 535192.48 m

Y: 4825159.10 m

Z: 363.83 m

Point Source, ISO 9613, Name: "Trailer Coupling", ID: "!0D!i01"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
3	535192.72	4825149.69	360.29	0	DEN	63	81.2	0.0	0.0	0.0	0.0	31.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	53.1
3	535192.72	4825149.69	360.29	0	DEN	125	90.3	0.0	0.0	0.0	0.0	31.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	62.2
3	535192.72	4825149.69	360.29	0	DEN	250	97.8	0.0	0.0	0.0	0.0	31.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	69.7
3	535192.72	4825149.69	360.29	0	DEN	500	102.2	0.0	0.0	0.0	0.0	31.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	74.1
3	535192.72	4825149.69	360.29	0	DEN	1000	108.4	0.0	0.0	0.0	0.0	31.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	80.3
3	535192.72	4825149.69	360.29	0	DEN	2000	103.6	0.0	0.0	0.0	0.0	31.1	0.1	-3.0	0.0	0.0	0.0	0.0	0.0	75.4
3	535192.72	4825149.69	360.29	0	DEN	4000	99.4	0.0	0.0	0.0	0.0	31.1	0.3	-3.0	0.0	0.0	0.0	0.0	0.0	71.0
3	535192.72	4825149.69	360.29	0	DEN	8000	92.3	0.0	0.0	0.0	0.0	31.1	1.2	-3.0	0.0	0.0	0.0	0.0	0.0	63.0

