

ACOUSTIC ASSESSMENT REPORT

Operations as of December 31st, 2023 as per Environmental Compliance Approval (ECA) No. 0412-A2LR4V issued on September 24, 2015, and amended on July 18, 2022



**New Gold Inc.
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Chapple, Ontario
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Project 237201.0011



Company Name

New Gold Inc.


Company Address

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City/Town Chapple	Province Ontario		Postal Code P0W 1A0
Location of Facility			

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


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	Required Information	Submitted	Explanation/Reference
1.0	Introduction (Project Background and Overview)	<input checked="" type="checkbox"/> Yes	Section 1
2.0	Facility Description		
	2.1 Operating hours of Facility and significant Noise Sources	<input checked="" type="checkbox"/> Yes	Section 2, Table E-1
	2.2 Site Plan identifying all significant Noise Sources	<input checked="" type="checkbox"/> Yes	Appendix B Figure 2a, 2b, 2c and 2d
3.0	Noise Source Summary		
	3.1 Noise Source Summary Table	<input checked="" type="checkbox"/> Yes	Table 1, Table E-1
	3.2 Source noise emissions specifications	<input checked="" type="checkbox"/> Yes	Section 4, Table E-2
	3.3 Source power/capacity ratings	<input checked="" type="checkbox"/> Yes	Table 1, Table E-2
	3.4 Noise control equipment description and acoustical specifications	<input checked="" type="checkbox"/> Yes	Section 4.8
4.0	Point of Reception Noise Impact Calculations		
	4.1 Point of Reception Noise Impact Table	<input checked="" type="checkbox"/> Yes	Table 5, Table 7
	4.2 Point(s) of Reception (POR) list and description	<input checked="" type="checkbox"/> Yes	Section 5.3
	4.3 Land-use Zoning Plan	<input checked="" type="checkbox"/> Yes	Section 5.2, Appendix B
	4.4 Scaled Area Location Plan	<input checked="" type="checkbox"/> Yes	Section 5.1, Appendix B Figure 1
	4.5 Procedure used to assess noise impacts at each POR	<input checked="" type="checkbox"/> Yes	Section 6.1
	4.6 List of parameters/assumptions used in calculations	<input checked="" type="checkbox"/> Yes	Section 6.2
5.0	Acoustic Assessment Summary		
	5.1 Acoustic Assessment Summary Table	<input checked="" type="checkbox"/> Yes	Table 6, Table 8
	5.2 Rationale for selecting applicable noise guideline limits	<input checked="" type="checkbox"/> Yes	Section 6.3
	5.3 Predictable Worst Case Impacts Operating Scenario	<input checked="" type="checkbox"/> Yes	Section 6.4
6.0	Conclusions		
	6.1 Statement of compliance with the selected noise performance limits	<input checked="" type="checkbox"/> Yes	Section 9
7.0	Appendices (Provide details such as)		
	Listing of Insignificant Noise Sources	<input checked="" type="checkbox"/> Yes	Table E-1
	Manufacturer's Noise Specifications	<input checked="" type="checkbox"/> Yes	Appendix F
	Calculations	<input checked="" type="checkbox"/> Yes	Appendix H
	Instrumentation	<input checked="" type="checkbox"/> Yes	Appendix C
	Meteorology during Sound Level Measurements	<input checked="" type="checkbox"/> Yes	Appendix D
	Raw Data from Measurements	<input checked="" type="checkbox"/> Yes	Appendix E
	Drawings (Facility / Equipment)	<input checked="" type="checkbox"/> Yes	Appendix B

Trinity – Toronto Office

June 2023

Standard Limitation Language for Inclusion in Reports

LIMITATIONS

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Trinity has prepared this documentation in a manner that is in general conformance with regulatory and guideline requirements. Trinity cannot guarantee that the application and/or license will be approved by regulatory authorities once the final document has been submitted.

REVISION TRACKING

Version	Date	Description of Updates
1.0	July 05, 2022	Acoustic Assessment Report for ECA Amendment
2.0	March, 2024	Acoustic Assessment Report for December 31 st , 2023 Modifications

EXECUTIVE SUMMARY

Trinity Consultants Ontario Inc. (Trinity) was retained by New Gold Inc. (New Gold) to prepare an updated Acoustic Assessment Report (AAR) for the operations located at 1361 Roen Road, Chapple, Ontario (the Mine). This AAR is prepared to assess the noise impacts from the Mine's operations in the 2023 operating year and to fulfill the requirements of the Mine's amended Environmental Compliance Approval (ECA) No 0412-A2LR4V issued on September 24, 2015, and amended on July 18, 2022. This AAR is an update to the 2022 AAR which reviews the modifications and changes up to December 31st, 2023.

The Mine is an operational open pit gold mine containing open pit mining, aggregate extraction, processing plant and related facilities and activities. Ore is processed at the on-site processing plant while mine rock and overburden are stockpiled on-site in dedicated areas. Site activities and operations include ore and aggregate extraction, crushing plants, ore processing plants, vehicle traffic and mining and construction equipment operations. The NAICS code for the Mine is 212220 – Gold and Silver Ore Mining.

The AAR was prepared in a manner that satisfies the requirements from the Ministry of the Environment, Conservation and Parks (MECP) publications NPC-233 "*Information to be Submitted for Approval of Stationary Sources of Sound*" (NPC-233) and NPC-300 "*Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning*" (NPC-300). The purpose of this assessment is to assess the noise emissions of the Mine at the most sensitive Points of Reception (PORs) with respect to the MECP noise guidelines.

Trinity conducted multiple site visits to identify all significant sources of noise at the Mine and collect sound level measurements. Sound levels were either measured using a sound level meter (SLM), estimated using manufacturer sound performance data, estimated based on established engineering calculation, or using Trinity sound database of similar sources. Sound level predictions were generated using this data. The worst-case noise impacts at the sensitive receptors are summarized in the Acoustic Assessment Summary Table.

This updated AAR assesses the noise impacts based on the following modification for the Mine for the 2023 operating year:

- ▶ Elevation data for Mine based on updated topographical maps to incorporate:
 - Extent and depth of mining and extraction operations.
 - Updated locations, footprint and height of stockpiles.
- ▶ Location and quantity of construction equipment associated with mining operations.
- ▶ Location and quantity of construction equipment associated with the construction of the Tailings Management Area (TMA) dams.
- ▶ Addition of a Wastewater Treatment Plant to site operations.
- ▶ Addition of Assay Lab to operations near the Mill Building.

The primary significant noise sources at the Mine include process intakes and exhausts, various construction equipment, water pumps, transformers, air compressors, truck traffic, and emergency equipment.

Based on a review of the Mine's operation and sources, the Mine is not expected to be a significant source of mechanical vibration as defined by the MECP guideline NPC-207, therefore a vibration assessment was not carried out.

Twenty One (21) locations have been identified as the most sensitive PORs in the vicinity of the Mine. Based on the results of the noise assessment, sound levels from the Mine operations demonstrate compliance with

the applicable sound level limits at the PORs. Therefore, it is expected the Mine can operate in compliance with the MECP noise guidelines as specified in NPC-300.

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1. INTRODUCTION

Trinity Consultants Ontario Inc. (Trinity) was retained by New Gold Inc. (New Gold) to prepare an updated Acoustic Assessment Report (AAR) for the operations located at 1361 Roen Road, Chapple, Ontario (the Mine). This AAR is prepared to assess the noise impacts from the Mine's operations in the 2023 operating year and to fulfill the requirements of the Mine's amended Environmental Compliance Approval (ECA) No 0412-A2LR4V issued on September 24, 2015, and amended on July 18, 2022. This AAR is an update to the 2022 AAR which reviews the modifications and changes up to December 31st, 2023.

The AAR was prepared in a manner that satisfies the requirements from the Ministry of the Environment, Conservations and Parks (MECP) publications NPC-233 "*Information to be Submitted for Approval of Stationary Sources of Sound*" (NPC-233) and NPC-300 "*Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning*" (NPC-300). The purpose of this assessment is to assess the noise emissions of the Mine at the most sensitive Points of Reception (PORs) with respect to the MECP noise guidelines.

1.1 Background

The Mine is an operational open pit gold mine containing open pit mining, aggregate extraction, processing plant and related facilities and activities. Ore is processed at the on-site processing plant while mine rock and overburden are stockpiled on-site in dedicated areas. Site activities and operations include ore and aggregate extraction, crushing plants, ore processing plants, vehicle traffic and mining and construction equipment operations. The NAICS code for the Mine is 212220 – Gold and Silver Ore Mining.

The primary significant noise sources at the Mine include process intakes and exhausts, various construction equipment, water pumps, transformers, air compressors, dust collectors, various types of truck traffic, and emergency equipment.

Based on a review of the Mine's operation and sources, the Mine is not expected to be a significant source of mechanical vibration as defined by the MECP guideline NPC-207, therefore a vibration assessment was not carried out.

1.2 Scope of Work

Trinity conducted multiple site visits to identify all significant sources of noise at the Mine and collect sound level measurements. Sound levels were either measured using a sound level meter (SLM), estimated using manufacturer sound performance data, estimated based on established engineering calculation, or using Trinity sound database of similar sources. Sound level predictions were generated using this data. The worst-case noise impacts at the sensitive receptors are summarized in the Acoustic Assessment Summary Table.

This updated AAR assesses the noise impacts based on the following information for the Mine for the 2023 operating year:

- ▶ Elevation data for Mine based on updated topographical maps to incorporate:
 - Extent and depth of mining and extraction operations.
 - Updated locations, footprint and height of stockpiles.
- ▶ Location and quantity of construction equipment associated with mining operations.
- ▶ Location and quantity of construction equipment associated with the construction of the Tailings Management Area (TMA) dams.

- ▶ Addition of a Waste water Treatment Plant to site operations.
- ▶ Addition of Assay Lab to operations near the Mill Building.

Sound levels were entered into CadnaA version 2023 acoustic modelling software to predict the noise impacts at sensitive receptors located near the Mine. The overall noise impact at the sensitive Points of Reception (PORs) was predicted during the predictable worst-case operating scenarios and the noise impacts at the PORs were assessed for compliance with the noise limits specified in the Ministry's Publications NPC-300.

The scope of the acoustic assessment involved the following aspects:

- ▶ Identified significant sources of sound at the Mine.
- ▶ Measured the sound levels of equipment or estimated sound levels using manufacturer sound performance data and/or using Trinity database of similar source.
- ▶ Predicted the overall noise impact at sensitive PORs during the worst-case operating scenarios.
- ▶ Assessed whether the noise impacts at the points of reception met the noise criteria.

2. SITE DESCRIPTION

2.1 Site Ownership and Operator

The Mine conducts business as New Gold Inc. The Mine and its operations are owned and operated by the New Gold Inc.

Please refer to **Appendix A** for a copy of the Mine's Proof of Legal Name and ECA.

2.2 Site Location

The Mine is located at 1361 Roen Road in Chapple, Ontario. A site location plan and zoning map is provided in **Appendix B**. Twenty-One (21) PORs have been identified as being representative of all the sensitive receptors surrounding the Mine, which have been labelled POR1, POR3, POR4, POR6 to POR12, POR14 to POR17 and POR19 to POR25 in **Figure 1** in **Appendix B**.

2.3 Site and Process Description

The Rainy River Mine (RRM) began processing ore on September 14, 2017 and completed its first gold pour on October 5, 2017. Commercial production began on October 19, 2017. Development of the underground mine began in the second half of 2018. The Mine and surrounding lands are predominately privately held, with New Gold holding a considerable private land package. New Gold has been exploring the property since 2015 when it was purchased from Rainy River Resources and is now operating an open pit mine, underground gold mine, and milling complex on the site.

Drilling, blasting, and material movement occur at the open pit and underground mine. Mined ore is transported to the processing plant for gold extraction using the carbon-in-pulp (CIP) extraction process. The main processes at the Mine include the following:

- ▶ Open pit and underground mine;
- ▶ Ore processing plant with primary crusher;
- ▶ Maintenance shop, warehouse, and administration complex;
- ▶ Explosives manufacturing and storage facilities;
- ▶ Stockpiles (overburden, low-grade ore, and mine rock);
- ▶ Aggregate extraction;
- ▶ Tailings management area (TMA);
- ▶ Onsite access roads and pipelines, power infrastructure and fuel storage facilities;
- ▶ Domestic and industrial waste handling;
- ▶ Water management facilities and drainage works, including watercourse diversions; and
- ▶ Transmission line.

The maximum projected ten (10)-year production rate for the Site is 32,400 tonnes of ore processed per day. The mine is projected to operate until 2028 with the Open Pit being operated until 2025 and Underground operations continuing until 2028. The mine currently employs 850 people with roughly 70% from local districts and just under 30% self-identifying as Indigenous.

The Mine generally operates 24 hours/day, 7 days/week and 52 weeks/year. Refer to **Figure 2a** to **Figure 2d** in **Appendix B** for a Mine plan showing the locations of significant noise sources at the Mine.

3. NOISE MEASUREMENT SUMMARY

Trinity conducted multiple site visits to identify significant sources of noise and collect noise measurements for the operating sources. The site visits were on June 21, 2019, December 22, 2020, June 6, 2023, and June 7, 2023.

Sound pressure levels were measured in accordance with MECP Publication NPC-103 using a Larson Davis CAL200 Acoustic Calibrator and Larson Davis Sound Expert Lxt SE Sound Level Meter (SLM). For steady sound measurements, the meter was set to slow response and A-weighting. Refer to **Appendix C** for SLM calibration certificates.

Weather conditions during the site visit on June 21, 2019, was clear with wind speeds of approximately 14 to 26 km/hr (between 9 AM and 4 PM). Weather conditions during the site visit on December 22, 2020, was clear with wind speeds of approximately 9 to 23 km/hr (between 9 AM and 4 PM). Weather conditions during the site visit on June 6, 2023, was clear with wind speeds of approximately 9 to 14 km/hr (between 9 AM and 4 PM). Weather conditions during the site visit on June 7, 2023, was clear with wind speeds of approximately 12 to 15 km/hr (between 9 AM and 4 PM). No precipitation occurred during the sampling events. Refer to **Appendix D** for meteorological data obtained from Environment Canada collected at the nearest weather station, Fort Frances RCS, on the noted site visit dates. This weather station is located approximately 52 km from the Mine.

Sources were assessed for tonality based on audible tonal characteristics during the site visits and using the methodology in ISO Standard 1996-2:2017 "Acoustics -- Description, measurement and assessment of environmental noise -- Part 2: Determination of environmental noise levels". Sources of noise that were deemed to be tonal in character (emitting a hum, whine, buzz) were penalized by increasing the sound level by 5 dB per MECP Publication NPC-104.

Refer to **Table E-1** in **Appendix E** for a summary of the significant and insignificant noise sources identified at the Mine.

4. NOISE SOURCE SUMMARY

Table 1 in the **Table Section** presents a summary of noise sources identified at the Mine that have a significant noise impact on sensitive PORs. Refer to **Table E-2** in **Appendix E** for a list of the operational parameters for the significant sources at the Mine. Refer to **Figure 2a, 2b, 2c** and **2d** in **Appendix B** for the location of the significant noise sources at the Mine. Refer to **Appendix F** for Manufacturer's data used for the assessment. Refer to **Appendix G** for Sound Power Levels taken from an older AAR prepared by Amec Wheeler Foster, dated January 2018.

4.1 Vehicle Traffic

Mining trucks (i.e. Komatsu 830 E) are used to transfer material (i.e. ores, mine rocks and overburden) from the open pit mine to the ore processing mill and stockpiles. The Sound Power Level (PWL) used is that from measurements on-site during normal operations. As there is significant difference in the sound levels between a loaded mining truck and an unloaded mining trucks, the loaded and unloaded mining trucks were represented as separate one-way truck routes in the model (i.e. a one-way truck route to represent unloaded truck route and a one-way truck route along the same path to present the loaded truck route). There are five mining truck routes:

- ▶ From the open pit mine to the stockpile by the primary crusher at the ore processing mill: 6 round trips per hour (i.e. 6 empty truck trips and 6 loaded truck trips per hour)
- ▶ From the open pit mine to the LGO stockpile: 3 round trips per hour (i.e. 3 empty truck trips and 3 loaded truck trips per hour)
- ▶ From the open pit mine to the PAG stockpile: 16 round trips per hour (i.e. 16 empty truck trips and 16 loaded truck trips per hour)
- ▶ From the open pit mine to the NPAG stockpile: Four (4) differing possible routes have been assessed. Each route contains 11 round trips per hour (i.e. 11 empty truck trips and 11 loaded truck trips per hour).
- ▶ From the open pit mine to the overburden stockpile: 2 round trips per hour (i.e. 2 empty truck trips and 2 loaded truck trips per hour)
- ▶ From the open pit mine to the TMA stockpile: 5 round trips per hour (i.e. 5 empty truck trips and 5 loaded truck trips per hour)

Rock trucks (i.e. Komatsu 400) are used to transfer material that is used part of the TMA construction activities. In the 2023 operating year, the TMA constructions activities occurred all-round the TMA dam. Sound level measurements collected during the normal operations were used to calculate the PWL. The sound levels were noted to vary significantly between the loaded and unloaded rock trucks; therefore, one (1) line source was used to represent each truck route (i.e. a one-way truck route to represent unloaded truck route and a one-way truck route along the same path to present the loaded truck route). The following truck route associated with the rock trucks was included as part of the assessment:

- ▶ From the TMA storage piles to the route surrounding the Dam: 8 round trips per hour (i.e. 8 empty truck trips and 8 loaded truck trips per hour). Trucks can either move along the southern route around the Dam or the northern one. Each route has been assessed with 8 round trips per hour.
- ▶ Compactors and Scrappers have been assessed to operate continuously and simultaneously around the whole TMA Dam.

Sound level measurements for other truck traffic at the Mine were obtained by measurements on-site. Other truck traffic at the Site include:

- ▶ water trucks (Komatsu CR20000) are used to apply water or dust suppressant to the haul roads. The water trucks were considered to make two round trips per hour on each haul route used by the rock trucks moving to and from the open pit mine.
- ▶ motor grader (CAT 16H, 16M or 24M) is used for construction and maintenance of the haul routes. The motor graders were considered to make one round trip per hour on each haul route used by the rock trucks moving to and from the open pit mine.

All truck traffic associated with mining operations and construction activities at the Mine were considered to operate continuously and simultaneously during the daytime, evening and nighttime periods.

4.2 Other Heavy Machinery and Processing Equipment

The Site uses various heavy machinery and ore/aggregate processing equipment as part of the open pit mining, aggregate extraction, material handling and material transfer activities.

A primary crusher is located south of the Mill at the ore stockpile.

The sound levels for these construction equipment and processing equipment were obtained by measurements on-site. Sound levels for the portable crushing plant near the East Outcrop area were measured by New Gold personnel in 2020. For all other construction equipment, measurements were previously collected for each type and model of equipment.

The equipment at the open pit mine, the primary crusher at the Mill and the track dozers at the stockpiles can operate 24 hours a day. Although the track dozers at the stockpiles can operate 24 hours a day, the operation of the Komatsu D475 is limited to daytime periods only, while other track dozer models can operate during the evening and nighttime periods in lieu of the Komatsu D475.

At the TMA dam construction, all construction equipment were considered to operate during the daytime, evening and nighttime periods.

4.3 Mill Building and Process Stacks

The Site contains various processing and pollution control equipment at the Site, including dust collectors and a wet scrubber. The exhaust from the dust collectors and the wet scrubber were included as significant sources in this assessment. These equipment were considered to operate simultaneously and continuously during the Site's worst-case one-hour daytime, evening and nighttime periods. The sound levels for the equipment were obtained from on-site measurements.

To the west of the Mill Building is the Assay Lab, wherein, the most significant sources were Make-up Air unit and Chillers.

There are several significant sources of noise inside the Mill building. There are multiple points of egress for these sources of noise into the outdoor environment. Each source of noise was measured on-site and analyzed. The main sources were various Bay-Doors, Intakes, and Exhausts. The sound levels from the Mill building were measured on-site.

4.4 Ancillary Equipment

Other equipment that are significant sources of noise include air compressors, water pumps and transformers. The four (4) compressors are located at the Water Management Pond while the water pumps are located throughout the Mine. The transformers are located at the substation located northeast of the Mill building.

The sound levels for the equipment was obtained from the previous AAR.

The equipment were considered to operate continuously and simultaneously during the Site's worst-case one-hour daytime, evening and nighttime periods.

4.5 Emergency Equipment

The Site contains two (2) CAT 2,500 kW emergency generators located at the substation and two fire pumps at the process plant. The sound level limits for the emergency equipment were obtained from the previous AAR.

The emergency generators and the fire pumps are tested during the daytime periods only.

The non-emergency operation of all emergency equipment was conservatively considered to occur simultaneously and continuously for the worst-case daytime one-hour period.

4.6 Impulsive Sources

No Impulsive sources of noise were identified on-site.

4.7 Insignificant Sources

Refer to **Table E-1** in **Appendix E** for a summary of the insignificant noise sources identified at the Mine.

4.8 Noise Control Equipment

The following noise mitigation measures have been incorporated into the operation of the Mine to minimize the noise impacts at the receptors.

- ▶ The Komatsu D475 track dozer is limited to daytime periods only at the stockpiles. During the nighttime, other track dozer models can be used at these stockpiles.
- ▶ Emergency generators and fire pumps are tested during the daytime periods only.

5. LAND USE ZONING PLAN & POINTS OF RECEPTION

5.1 Scaled Area Location Plan

Refer to **Figure 1** in **Appendix B** for an area map showing the general location of the Mine with the locations of the PORs. Refer to **Figure 2a, 2b** and **2c** for the Mine layout showing the various areas of work in the Mine, on-site buildings, and significant noise sources.

5.2 Land Use Zoning Plan

Parcels of land owned by New Gold and consisting of the mine footprint have been rezoned 'RU – Rural' and 'M1 – Industrial' to 'MM – Mineral Mining'. The mine footprint also consists of parcels that are owned by the Crown. The remaining properties surrounding the Site are zoned as 'RU – Rural' with a few parcels zoned as 'M1 – Industrial'.

All developed and vacant properties assessed as PORs are zoned as 'RU – Rural'.

Refer to **Figure 3** in **Appendix B** for the zoning map from the Township of Chapple Zoning By-Law. The zoning keys have been provided in Appendix A as Attachment A1.

5.3 Points of Reception

Consistent with the previous AAR, a total of twenty-one (21) sensitive points of reception (POR) were identified as the basis for the acoustic assessment and include 15 existing dwellings and 7 vacant lots.

As noted in the previous AAR, the properties that were initially assessed as PORs 5, 13 18 and 26 were acquired by New Gold. Additionally, POR2 has also been acquired by New Gold and there are no plans in place to develop above mentioned lands into places of residence. Therefore, per NPC-300, these properties are now not considered to be PORs.

5.3.1 Properties with Existing Dwellings

Each of the existing dwelling was assumed to be a two-storey building. The following reception points were identified in the model for each dwelling:

An outdoor POR at a height of 1.5 m to represent a backyard, a front yard or other outdoor living area. The outdoor POR was placed within 30 m of the façade of the building, per NPC-300; and

A plane-of-window POR at a height of 4.5 m to represent the 2nd storey window of the dwelling.

A brief summary of the existing PORs is provided below. As the Site covers a wide area with noise sources located throughout the Site, the location is provided below with respect to the Mill Building.

- ▶ POR1 is located on the west side of Marrs Road, approximately 1,300 m north of the intersection of Marrs Road and Richardson Road. POR1 is approximately 4,880 m northwest of the Mill Building.
- ▶ POR3 is located approximately 170 north of Korpi Road and approximately 180 m east of Gallinger Road. POR3 is approximately 4,950 m northeast of the Mill Building.

- ▶ POR4 is located approximately 35 m south of Korpi Road and approximately 300 m east of Gallinger Road. POR4 is approximately 4,840 m east-northeast of the Mill Building.
- ▶ POR7 is located approximately 40 m east of Heatwole Road and approximately 220 m north of Highway 600. POR7 is located approximately 5,940 m southeast of the Mill Building.
- ▶ POR8 is located approximately 40 m north of Highway 600 and approximately 900 m west of Heatwole Road. POR8 is located 5,480 m southeast of the Mill Building.
- ▶ POR9 is located approximately 150 m south of Highway 600 and approximately 1,230 m west of Heatwole Road. POR9 is approximately 5,410 m southeast of the Mill Building.
- ▶ POR10 is located approximately 50 m south of Highway 600 and approximately 1,320 m east of Barwick Road. POR10 is approximately 4,960 m southeast of the Mill Building.
- ▶ POR11 is located approximately 70 m south of Highway 400 and approximately 900 m east of Barwick Road. POR11 is approximately 4,690 m southeast of the Mill Building
- ▶ POR12 is located approximately 230 m north of Highway 600 and approximately 500 m east of Barwick Road. POR12 is approximately 4,610 m southeast of the Mill Building.
- ▶ POR14 is approximately 70 m north of the new segment of Highway 600 (formerly Tait Road) and approximately 210 m west of Old Highway 600. POR14 is approximately 4.060 south-southeast of the Mill Building
- ▶ POR15 is approximately 100 m southwest of the intersection of new segment of Highway 600 (formerly Pine River Road) and the Old Highway 600. POR15 is approximately 700 m west-southwest of the Mill Building.
- ▶ POR16 is approximately 66 m northwest of the intersection of new segment of Highway 600 (formerly Pine River Road) and the Old Highway 600. POR16 is approximately 6.970 m west-southwest of Highway 600.
- ▶ POR17 is approximately 250 m northeast from Highway 600 at the location where the Highway bends from a north-south run to an east-west run, approximately 1,740 m north of Jewett Road and approximately 1,650 m east of Split Road. POR17 is approximately 7,220 m northwest of the Mill Building.

5.3.2 Vacant Properties

A brief summary of the vacant properties assessed as PORs is provided below. The vacant properties were assessed with a single reception point at a height of 4.5 m, per NPC-300. The location of these PORs are consistent with the previous AAR and are generally 60 m from the nearest road. As the Site covers a wide area with noise sources located throughout the Site, the location is provided below with respect to the Mill Building.

- ▶ POR19 is located on the north side of Neilson Road, approximately 3,070 m west of the new segment of Highway 600 and 3,390 m east of Highway 617. POR19 is approximately 11,110 m southeast of the Mill Building.

- ▶ POR20 is located on the south side of the new segment of Highway 400 (formerly Tait Road), approximately 750 m west of McMillan Road and approximately 900 m east of Sheppard road. and is approximately 4,250 m southwest of the Mill Building.
- ▶ POR21 is located on the south side of Teeple Road, approximately 1,530 west of Heatwole Road and approximately 1,810 east of the Old Highway 600. POR21 is approximately 3,810 m t of the Mill southeast of the Mill Building.
- ▶ POR22 is located on the north side of Highway 600, approximately 900 m east of Barwick Road. POR22 is approximately 4,610 m southeast of the Mill Building.
- ▶ POR23 is located approximately 50 m west of Sheppard Road and 60 m north of the new segment of Highway 600. POR23 is approximately 4,530 m southwest of the Mill Building.
- ▶ POR24 is located on the south side of the new segment of Highway 400 (formerly Tait Road), approximately 840 m west of McMillan Road and approximately 800 m east of Sheppard road. POR24 is approximately 4,280 southwest of the Mill Building.
- ▶ POR25 is located approximately 50 m east of McMillan Road and approximately 60 m south of Highway 600. POR25 is located approximately 4,130 m south of the Mill Building.

6. NOISE IMPACT ANALYSIS

6.1 Procedure Used to Assess Noise Impacts at Each POR

Sound pressure level readings were taken at a measured distance from each source according to procedures outlined in MECP Publication NPC-103. Sound power levels were used as inputs to the acoustic computer model CadnaA (Computer Aided Noise Abatement, Version 2023). The model is based on ISO Standard 9613-2 "Acoustics – Attenuation of Sound During Propagation Outdoors". The ISO based model accounts for reduction in sound level due to increased distance and geometrical spreading, air absorption, ground attenuation, and acoustical shielding by intervening structures, topography, and brush. The model is considered conservative since it represents atmospheric conditions that promote propagation of sound from source to receiver. Refer to **Appendix E** for the summary calculations. Refer to **Appendix H** for the Cadna model set-up data and output data for Steady and Impulsive sources respectively.

6.2 List of Parameters and Assumptions Used in Calculations and Model

The following assumptions were used in the calculations and acoustical model:

- Tonal sources were increased by 5 dB per NPC-104 (where applicable).
- Sources were adjusted for intermittence per NPC-104 (where applicable).
- Ground absorption was set to 0.0 for reflective ground surfaces and 1.0 for absorptive ground cover. On-site rocky/gravel terrain was set to 0.5.
- Foliage has been assumed to be at a height of 12m. Certain areas where the tree height were observed to be 10m have been analyzed as 10m.
- Latest contours provided by New Gold have been added to the noise model. These contours have taken the Pit depths and Stockpile heights into account.
- Lateral diffraction and second order reflection were included in the model.
- Model was set to no subtraction of negative ground attenuation.
- Model was set to no negative path difference.

6.3 Rationale for Selecting Applicable Limits

The Mine and the PORs are located in a "Class 3" Rural Area, which is defined in NPC-300 (October, 2013) as:

"a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as:

- *a small community;*
- *an agricultural area;*
- *a rural recreational area such as a cottage or a resort area; or*
- *a wilderness area."*

For steady and varying sound, NPC-300 specifies the sound level limit at a sensitive POR in terms of one-hour equivalent sound level (Leq). The sound level limit at the POR due to the operation of stationary sources is the greater of the following:

1. Exclusionary minima values specified in NPC-300; or
2. The minimum 1 hour background sound level occurring at the sensitive point of reception occurring at the same time of day that the equipment is operating.

The MECP exclusionary limit values were selected as the sound level limits for the PORs. Table 6-1 summarizes daytime, evening and nighttime sound level limits used in this assessment at the identified PORs for steady sources.

Table 6-2. Summary of Sound Level Limits (L_{eq}) for Steady Sources

PORs	Daytime (0700 to 1900) Criteria (dBA)			Evening (1900 to 2300) Criteria (dBA)			Nighttime (2300 to 0700) Criteria (dBA)		
	MECP Exclusionary Limit	Minimum Background Level	Criteria Used in Assessment	MECP Exclusionary Limit	Minimum Background Level	Criteria sed in Assessment	MECP Exclusionary Limit	Minimum Background Level	Criteria Used in Assessment
Outdoor PORs	45	N/A ^a	45	40	N/A ^a	40	N/A ^b	N/A ^a	N/A ^b
Plane of Window PORs	45	N/A ^a	45	40	N/A ^a	40	40	N/A ^a	40

- a. Background noise level not calculated or measured.
- b. Outdoor PORs do not have nighttime performance limits.

For emergency equipment operating in non-emergency situations, such as testing or maintenance, the sound levels limits at the PORs from this equipment are 5 dB greater than the sound level limits otherwise applicable at the PORs from stationary sources. Per NPC-300, the sound level impacts from this emergency equipment operating during non-emergency situations are assessed independently of all other stationary sources of noise. The sound level limits applicable at the PORs from this emergency equipment operating in non-emergency situations are summarized in Table 6-2.

Table 6-3. Summary of Sound Level Limits (L_{eq}) for Emergency Sources

PORs	Daytime (0700 to 1900) Criteria (dBA)			Evening (1900 to 2300) Criteria (dBA)			Nighttime (2300 to 0700) Criteria (dBA)		
	MECP Exclusionary Limit	Adjustment for Emerg. Equipment	Criteria Used in Assessment	MECP Exclusionary Limit	Adjustment for Emerg. Equipment	Criteria sed in Assessment	MECP Exclusionary Limit	Adjustment for Emerg. Equipment	Criteria Used in Assessment
Outdoor PORs	45	+ 5	50	N/A ^b	N/A ^b	N/A ^b	N/A ^b	N/A ^b	N/A ^b
Plane of Window PORs	45	+ 5	50	N/A ^b	N/A ^b	N/A ^b	N/A ^b	N/A ^b	N/A ^b

- a. Background noise level not calculated or measured.
- b. Non-emergency operation of emergency equipment does occur during evening and nighttime periods.

6.4 . Predictable Worst-Case Impact Operating Scenario

The Mine can operate 24 hours a day. The worst-case operating scenarios were assessed for daytime, evening and nighttime operating periods and are summarized in **Table 6-4**.

Table 6-4. Summary of Worst-Case Operating Scenarios

Sources	Daytime Worst-Case 1-Hour Period	Evening Worst-Case 1-Hour Period	Nighttime Worst-Case 1-Hour Period
Vehicle Traffic	<p>Mining Trucks:</p> <ul style="list-style-type: none"> • Open pit to primary crusher – 6 round trips/hr. • Open pit to LGO stockpile – 3 round trips/hr. • Open pit to PAG stockpile – 16 round trips/hr. • Open pit to NPAG stockpile – 11 round trips/hr on each of the four (4) routes. • Open pit to Over burden stockpiles – 2 round trips/hr. • Open pit to TMA stockpile – 5 round trips/hr. <p>TMA construction:</p> <ul style="list-style-type: none"> • Roack trucks along northern and southern routes around TMA Dam – 8 round trips/hr each. • Compactors operating at 60min/hr around the TMA area. • Scrappers operating at 60min/hr around the TMA area. <p>Other truck traffic:</p> <ul style="list-style-type: none"> • Water Trucks – 2 round trips/hr on each haul route. • Motor grader – 1 round trip/hr on each haul route. 	<p>Mining Trucks:</p> <ul style="list-style-type: none"> • Open pit to primary crusher – 6 round trips/hr. • Open pit to LGO stockpile – 3 round trips/hr. • Open pit to PAG stockpile – 16 round trips/hr. • Open pit to NPAG stockpile – 11 round trips/hr on each of the four (4) routes. • Open pit to Over burden stockpiles – 2 round trips/hr. • Open pit to TMA stockpile – 5 round trips/hr. <p>TMA construction:</p> <ul style="list-style-type: none"> • Roack trucks along northern and southern routes around TMA Dam – 8 round trips/hr each. • Compactors operating at 60min/hr around the TMA area. • Scrappers operating at 60min/hr around the TMA area. <p>Other truck traffic:</p> <ul style="list-style-type: none"> • Water Trucks – 2 round trips/hr on each haul route. <p>Motor grader – 1 round trip/hr on each haul route.</p>	<p>Mining Trucks:</p> <ul style="list-style-type: none"> • Open pit to primary crusher – 6 round trips/hr. • Open pit to LGO stockpile – 3 round trips/hr. • Open pit to PAG stockpile – 16 round trips/hr. • Open pit to NPAG stockpile – 11 round trips/hr on each of the four (4) routes. • Open pit to Over burden stockpiles – 2 round trips/hr. • Open pit to TMA stockpile – 5 round trips/hr. <p>TMA construction:</p> <ul style="list-style-type: none"> • Roack trucks along northern and southern routes around TMA Dam – 8 round trips/hr each. • Compactors operating at 60min/hr around the TMA area. • Scrappers operating at 60min/hr around the TMA area. <p>Other truck traffic:</p> <ul style="list-style-type: none"> • Water Trucks – 2 round trips/hr on each haul route. <p>Motor grader – 1 round trip/hr on each haul route.</p>
Other Heavy Machinery and Processing Equipment	<ul style="list-style-type: none"> • Komatsu D475 loader only operates during daytime for the full hour. • All other equipment operates for the full hour continuously and simultaneously. 	<ul style="list-style-type: none"> • Cat D10 loader only operates during evening for the full hour • All other equipment operates for the full hour continuously and simultaneously. 	<ul style="list-style-type: none"> • Cat D10 loader only operates during daytime for the full hour. • All other equipment operates for the full hour continuously and simultaneously.
Mill Building and Process Stacks	All mill building and process stacks sources operate continuously and simultaneously for the full hour.	All mill building and process stacks sources operate continuously and simultaneously for the full hour.	All mill building and process stacks sources operate continuously and simultaneously for the full hour.
Ancillary Equipment	All Ancillary Equipment operate continuously and simultaneously for the full hour.	All Ancillary Equipment operate continuously and simultaneously for the full hour.	All Ancillary Equipment operate continuously and simultaneously for the full hour.
Emergency Equipment	Both Emergency Generators and Fire Pumps testing/maintenance window of 1 hour during daytime only.	No testing/maintenance during evening.	No testing/maintenance during nighttime.

7. ACOUSTIC ASSESSMENT SUMMARY

7.1 Point of Reception Noise Impact Summary – Steady Sources

The Mine Operations with Steady Sources, as described in Section 4 and Section 6.4, were modelled to determine the predictable worst-case sound levels at the identified PORs in Section 5. **Table 2** in **Tables Section** summarize the noise impacts of the Mine sources at the identified sensitive PORs. Specifically, it lists the distance from each noise source to the points of reception and the sound pressure level generated by each noise source at each receptor based on the predictive modelling output.

The following POR Acoustic Assessment Summary tables are summarized in **Table 3**, in the **Table Section**. Based on the levels presented in the **Table Section**, the existing Mine predictable worst-case operations are expected to be within the applicable noise limits at all the PORs. Sample calculation can be found in **Appendix G**.

7.2 Point of Reception Noise Impact Summary – Emergency Sources

The Mine Operations with Emergency Sources, as described in Section 4 and Section 6.4, were modelled to determine the predictable worst-case sound levels at the identified PORs, in Section 5. **Table 4** in **Tables Section** summarizes the noise impacts of the Mine sources at the identified sensitive PORs. Specifically, it lists the distance from each noise source to the points of reception and the sound pressure level generated by each noise source at each receptor based on the predictive modelling output.

The following POR Acoustic Assessment Summary tables are summarized in **Table 5**, in the **Table Section**. Based on the levels presented in the **Table Section**, the existing Mine predictable worst-case operations are expected to be within the applicable noise limits at all the PORs. Sample calculation can be found in **Appendix G**.

8. VIBRATION ASSESSMENT

Based on a review of the Mine's operation and sources, the Mine is not expected to be a significant source of vibration as defined by the MECP guideline NPC-207.

9. CONCLUSIONS

Trinity Consultants Ontario Inc. (Trinity) was retained by New Gold Inc. (New Gold) to prepare an Acoustic Assessment Report (AAR) for the operations located at 1361 Roen Road, Chapple, Ontario (the Mine). This AAR is prepared to assess the noise impacts from the Mine's operations in the 2023 operating year and to fulfill the requirements of the Mine's amended Environmental Compliance Approval (ECA) No 0412-A2LR4V issued on September 24, 2015, and amended on July 18, 2022. Using Trinity's on-site measurements, manufacturers data, engineering calculations and Trinity's database of similar sources, Trinity was able to predict the noise levels at the most sensitive Points of Reception (POR) during the Mine worst-case normal operations. The predictive analysis indicates that, the noise emissions associated with the Mine operations are expected to be within the applicable Ministry of the Environment, Conservations and Parks (MECP) limits at the PORs. Therefore, it is expected the Mine can operate in compliance with the prescribed sound level limits. Based on a review of the Mine's operation, a vibration assessment is not warranted.

Table 1: Noise Source Summary Table

AAR ID	Source Description	Daytime Sound Power Level (dBA)	Evening Sound Power Level (dBA)	Night-time Sound Power Level (dBA)	Source Location	Sound Characteristics	Noise Control Measures
BD2	Blast Hole Drill 2- Sandvik D75KS (913)	114	114	114	O	S	U
BD3	Blast Hole Drill 3- Sandvik D75KS (914)	114	114	114	O	S	U
BD4	Blast Hole Drill 4- Sandvik D75KS (915)	114	114	114	O	S	U
BD5	Blast Hole Drill 5- Sandvik D75KS (916)	114	114	114	O	S	U
UC	Underground Crusher	99	99	99	O	S	U
DC1	Dust Collector 1	105	105	105	O	S	U
DC2	Dust Collector 2	105	105	105	O	S	U
E1	Komatsu Diesel Excavator PC5500 (601)	121	121	121	O	S	U
E2	Komatsu Diesel Excavator PC5500 (602)	121	121	121	O	S	U
E3	Komatsu Diesel Excavator PC8000 (603)	121	121	121	O	S	U
E4	Komatsu Diesel Excavator PC3000	120	120	120	O	S	U
E5	Komatsu Diesel Excavator PC800LC	113	113	113	O	S	U
E6	Komatsu Diesel Excavator PC360LC	116	116	116	O	S	U
E7	Komatsu Diesel Excavator PC360LC	116	116	116	O	S	U
E8	Komatsu Diesel Excavator PC360LC	102	102	102	O	S	U
E11	Komatsu Diesel Excavator PC360LC	102	102	102	O	S	U
E12	Komatsu Diesel Excavator PC360LC	102	102	102	O	S	U
E13	Komatsu Diesel Excavator PC360LC	102	102	102	O	S	U
E14	Komatsu Diesel Excavator PC360LC	102	102	102	O	S	U
E15	Komatsu Diesel Excavator PC360LC	102	102	102	O	S	U
E16	Komatsu Diesel Excavator PC360LC	102	102	102	O	S	U
E17	Komatsu Diesel Excavator PC360LC	102	—	—	O	S	U
E18	Komatsu Diesel Excavator PC360LC	102	—	—	O	S	U
EO_FEL	EO Portable Plant - Wheel Loader (Doolan DL420)	119	—	—	O	S	U
EO_PC	EO Portable Plant - Elrus 3054 Jaw Crusher	118	—	—	O	S	U
EO_SCNR	EO Portable Plant - Terex 380 MVP Cone and Screener	122	—	—	O	S	U
EO_GENSET	EO_GENSET	124	—	—	O	S	U
DD1	DTH Drill Sandvik DR650i (918)	119	119	119	O	S	U
DD2	DTH Drill Sandvik DR650i (919)	119	119	119	O	S	U
DD3	DTH Drill Sandvik DR650i (920)	119	119	119	O	S	U
DD4	DTH Drill Sandvik DR650i (921)	119	119	119	O	S	U
T1	Transformer 1	108	108	108	O	T	U
T2	Transformer 2	108	108	108	O	T	U
TD01	Track Dozer 01 (Pit - Komatsu D475)	115	115	115	O	S	U
TD02	Track Dozer 02 (Pit -CAT D10)	120	120	120	O	S	U
TD03	Track Dozer 03 (Pit -CAT D10)	120	120	120	O	S	U
TD04	Track Dozer 04 (Pit -CAT D10)	120	120	120	O	S	U
TD07D	Track Dozer 07 (PAG - Komatsu D475)	115	—	—	O	S	U
TD08D	Track Dozer 08 (PAG - Komatsu D475)	115	—	—	O	S	U
TD08N	Track Dozer 08 (PAG - Komatsu D475)	—	120	120	O	S	U
TD09	Track Dozer 09 (Ore -CAT D9)	110	110	110	O	S	U
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	116	—	—	O	T	U
TD11N	Track Dozer 11 (NPAG/OB - CAT D10)	—	115	115	O	S	U
TD12D	Track Dozer 12 (NPAG/OB - CAT D10)	116	—	—	O	T	U
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	110	110	110	O	S	U
TD17	Track Dozer 17 (TMA -CAT D9)	110	—	—	O	S	U
TD18	Track Dozer 18 (TMA -CAT D9)	110	110	110	O	S	U
TD23	Track Dozer 23 (TMA -CAT D9)	110	110	110	O	S	U
TD24	Track Dozer 24 (TMA -CAT D9)	110	110	110	O	S	U
TD26	Track Dozer 26 (TMA -CAT D9)	110	110	110	O	S	U
TD27	Track Dozer 27 (TMA -CAT D9)	110	110	110	O	S	U
WD	Komatsu Wheel Dozer WD900	115	115	115	O	S	U
WL1	Komatsu Wheel Dozer WD900	116	116	116	O	S	U
WL2	CAT 994HL	113	113	113	O	S	U
WL3	CAT 980H Wheel Loader	114	114	114	O	S	U
WL4	CAT 980H Wheel Loader	114	114	114	O	S	U
WL5	CAT 980H Wheel Loader	114	114	114	O	S	U
WL6	CAT 980H Wheel Loader	114	114	114	O	S	U
WP01	Water Pump WP01	97	97	97	O	S	U
WP02	Water Pump WP02	97	97	97	O	S	U
WP03	Water Pump WP03	97	97	97	O	S	U
WP04	Water Pump WP04	97	97	97	O	S	U
WP05	Water Pump WP05	97	97	97	O	S	U
WP06	Water Pump WP06	97	97	97	O	S	U
WP07	Water Pump WP07	97	97	97	O	S	U
WP08	Water Pump WP08	97	97	97	O	S	U
WP09	Water Pump WP09	97	97	97	O	S	U
WP10	Water Pump WP10	97	97	97	O	S	U
WP12	Water Pump WP12	97	97	97	O	S	U
WP13	Water Pump WP13	97	97	97	O	S	U
WP14	Water Pump WP14	97	97	97	O	S	U
WP15	Water Pump WP15	97	97	97	O	S	U
WP17	Water Pump WP17	97	97	97	O	S	U
WP18	Water Pump WP18	110	110	110	O	S	U
MBPA_GENSET	Portable Plant - CAT C13 Genset	118	118	118	O	S	U
COP1	Packers	116	116	116	O	S	U
COP2	Packers	116	116	116	O	S	U
TMA_PumpH	TMA-pump house	82	82	82	O	S	U
TMA_WP2_P1	TMW-WP2 pump1	78	78	78	O	S	U
TMA_WP2_P2	TMW-WP2 pump2	78	78	78	O	S	U
TMA_WP2_P3	TMW-WP2 pump3	78	78	78	O	S	U
TMA_WTP_Ex1	WTP ex fan 1	88	88	88	O	S	U

Table 1: Noise Source Summary Table

AAR ID	Source Description	Daytime Sound Power Level (dBA)	Evening Sound Power Level (dBA)	Night-time Sound Power Level (dBA)	Source Location	Sound Characteristics	Noise Control Measures
TMA_WTP_Ex2	WTP ex fan 2	88	88	88	O	S	U
TMA_DieselPump	TMA Dewatering diesel pump	97	97	97	O	S	U
AsyL_chiller1	Assay Lab chiller fan	84	84	84	O	S	U
AsyL_chiller2	Assay Lab chiller fan	84	84	84	O	S	U
AsyL_MUA	Assay Lab MUA	80	80	80	O	S	U
AsyL_DC1	Assay Lab DC1	109	109	109	O	S	U
AsyL_DC2	Assay Lab DC2	109	109	109	O	S	U
Mill_Exh1	Mill Ex fan 1	105	105	105	O	T	U
Mill_Exh2	Mill Ex fan 2	111	111	111	O	S	U
Mill_Exh3	Mill Ex fan 3	99	99	99	O	S	U
Mill_Exh4	Mill Ex fan 4	99	99	99	O	S	U
Mill_Exh5	Mill gooseneck ex 5	94	94	94	O	S	U
Mill_Exh6	Mill north ex 6	101	101	101	O	S	U
Mill_Exh7	Mill north ex 7	109	109	109	O	T	U
Mill_Exh8	Mill north ex 8	109	109	109	O	T	U
Loader	CAT Loader 994K	119	119	119	O	S	U
WP19	Water Pump WP19	97	97	97	O	S	U
WP20	Water Pump WP20	97	97	97	O	S	U
WP21	Water Pump WP21	97	97	97	O	S	U
WP22	Water Pump WP22	97	97	97	O	S	U
WP23	Water Pump WP23	97	97	97	O	S	U
WP24	Water Pump WP24	97	97	97	O	S	U
WP25	Water Pump WP25	97	97	97	O	S	U
WP26	Water Pump WP26	97	97	97	O	S	U
WP27	Water Pump WP27	97	97	97	O	S	U
WP28	Water Pump WP28	97	97	97	O	S	U
TD_WRMS	Track Dozer WMRS (Komatsu D475)	115	115	115	O	S	U
CP_JC	Frank Crushing Plant - Jaw Crusher	116	116	116	O	S	U
CP_S	Frank Crushing Plant - Screener	115	115	115	O	S	U
CP_Gen	Frank Crushing Plant - Generator	116	116	116	O	S	U
CP_loader	Frank Crushing Plant - John Deer 844K	102	102	102	O	S	U
Intake	Fresh Air Intake	86	86	86	O	S	U
Mat_drop	Material Drop	117	117	117	O	S	U
WP29	Water Pump WP29	97	97	97	O	S	U
WP30	Water Pump WP30	97	97	97	O	S	U
WP31	Water Pump WP31	97	97	97	O	S	U
WP32	Water Pump WP32	97	97	97	O	S	U
WP33	Water Pump WP33	97	97	97	O	S	U
WP34	Water Pump WP34	97	97	97	O	S	U
WP35	Water Pump WP35	97	97	97	O	S	U
WP36	Water Pump WP36	97	97	97	O	S	U
WP37	Water Pump WP37	97	97	97	O	S	U
WP38	Water Pump WP38	97	97	97	O	S	U
WP39	Water Pump WP39	97	97	97	O	S	U
WP40	Water Pump WP40	97	97	97	O	S	U
WP41	Water Pump WP41	97	97	97	O	S	U
EG1	Emergency Generator 1	129	—	—	O	S	U
EG2	Emergency Generator 2	129	—	—	O	S	U
FP1	Fire Pump 1	137	—	—	O	T	U
FP2	Fire Pump 2	137	—	—	O	T	U
MGR_NPAG	Motor Grader Route NPAG	108	108	108	O	S	U
MGR_OB	Motor Grader Route OB	108	108	108	O	S	U
MGR_OPMill	Motor Grader Route Open pit to mill	108	108	108	O	S	U
MGR_PAG	Motor grader route PAG	108	108	108	O	S	U
MGR_SP	Motor Grader Route Stockpile	108	108	108	O	S	U
TRE_OP_NPAG	Truck Route Open Pit to NPAG (Empty Truck)	104	104	104	O	S	U
TRE_OP_OB	Truck Route Open Pit to Overburden (Empty Truck)	104	104	104	O	S	U
TRE_OP_Mill	Truck Route Open Pit to Mill (Empty Truck)	104	104	104	O	S	U
TRE_OP_PAG	Truck Route Open Pit to PAG (Empty Truck)	104	104	104	O	S	U
TRE_OP_LGO	Truck Route Open Pit to LGO (Empty Truck)	104	104	104	O	S	U
TRE_OP_TMA	Truck Route TMA Staging Area to TMA Dam (Empty Truck)	104	104	104	O	S	U
TRL_OP_NPAG	Truck Route Open Pit to NPAG (Loaded Truck)	104	104	104	O	S	U
TRL_OP_OB	Truck Route Open Pit to Overburden (Loaded Truck)	104	104	104	O	S	U
TRL_OP_Mill	Truck Route Open Pit to Mill (Loaded Truck)	104	104	104	O	S	U
TRL_OP_PAG	Truck Route Open Pit to PAG (Loaded Truck)	104	104	104	O	S	U
TRL_OP_LGO	Truck Route Open Pit to LGO (Loaded Truck)	104	104	104	O	S	U
TRL_OP_TMA	Truck Route Open Pit to TMA Staging Area (Loaded Truck)	104	104	104	O	S	U
WTR_NPAG	Water Truck Route NPAG	107	107	107	O	S	U
WTR_OB	Water Truck Route OB	107	107	107	O	S	U
WTR_OPMill	Water Truck Route Open Pit to Mill	107	107	107	O	S	U
WTR_PAG	Water Truck Route PAG	107	107	107	O	S	U
WTR_SP	Water Truck Route Stockpile	107	107	107	O	S	U
TRE_TMA1	Truck route TMA staging to TMA Dam (Empty Truck)	104	104	104	O	S	U
TRL_TMA1	Truck route TMA staging to TMA Dam (Loaded Truck)	104	104	104	O	S	U
TRL_TMA_2023	Truck route TMA_2023 (Loaded truck)	104	104	104	O	S	U
TRE_TMA_2023	Truck route TMA_2023 (Empty truck)	104	104	104	O	S	U
MGR2_NPAG	Motor Grader Route NPAG 2	108	108	108	O	S	U
TRE_OP2_NPAG	Truck Route Open Pit to NPAG 2 (Empty Truck)	104	104	104	O	S	U
TRL_OP2_NPAG	Truck Route Open Pit to NPAG 2 (Loaded Truck)	104	104	104	O	S	U

Table 1: Noise Source Summary Table

AAR ID	Source Description	Daytime Sound Power Level (dBA)	Evening Sound Power Level (dBA)	Night-time Sound Power Level (dBA)	Source Location	Sound Characteristics	Noise Control Measures
WTR2_NPAG	Water Truck Route NPAG 2	107	107	107	O	S	U
WTR3_NPAG	Water Truck Route NPAG 3	107	107	107	O	S	U
MGR3_NPAG	Motor Grader Route NPAG 3	108	108	108	O	S	U
TRE_OP3_NPAG	Truck Route Open Pit to NPAG 3 (Empty Truck)	104	104	104	O	S	U
TRL_OP3_NPAG	Truck Route Open Pit to NPAG 3 (Loaded Truck)	104	104	104	O	S	U
TRL_OP4_NPAG	Truck Route Open Pit to NPAG 4 (Loaded Truck)	104	104	104	O	S	U
MGR4_NPAG	Motor Grader Route NPAG 4	108	108	108	O	S	U
TRE_OP4_NPAG	Truck Route Open Pit to NPAG 4 (Empty Truck)	104	104	104	O	S	U
WTR4_NPAG	Water Truck Route NPAG 4	107	107	107	O	S	U
Packer_TMA1	Compactor route TMA staging to TMA Dam	116	116	116	O	S	U
Scrapper_TMA1	Scrapper route TMA staging to TMA Dam	108	108	108	O	S	U
Mill_intake_E	Mill intake East	91	91	91	O	S	U
Mill_intake_N	Mill intake North	84	84	84	O	S	U
Mill_BD10E	Mill Bay door 10E	96	96	96	O	S	U
Mill_BD9E	Mill Bay door 9E	94	94	94	O	S	U
Mill_BD27W	Mill Bay door 27W	93	93	93	O	S	U
Mill_BD18W	Mill Bay door 18W	104	104	104	O	S	U

Note 1: If a source has a sound characteristics with a penalty, the penalty is not included in the Sound Power Level.

Note 2: Sound Power Levels in Table 1 does not include time weighting or any adjustments that were considered in the noise modelling.

Refer to the Sample Calculations for any adjustments applied to the Sound Power Levels of sources.

NOISE SOURCE SUMMARY TABLE NOMENCLATURE

Source Location

O - located/installed outside the building, including on the roof
 I - located/installed inside the building

Sound Characteristics

S - Steady
 Q - Quasi Steady Impulsive
 I - Impulsive
 B - Buzzing
 T - Tonal
 C - Cyclic

Noise Control Measures

S - Silencer, Acoustic Louver, Muffler
 A - Acoustic Lining, Plenum
 B - Barrier, Berm, Screening
 L - Lagging
 E - Acoustic Enclosure
 O - Other
 U - Uncontrolled

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR1			POR1a			POR3			POR3a			POR4							
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
BD2	5984	—	—	—	5955	—	—	—	6391	—	—	—	6362	—	—	—	6229	—	—	—
BD3	5744	—	—	—	5714	—	—	—	6510	—	—	—	6480	—	—	—	6356	—	—	—
BD4	6003	—	—	—	5974	—	—	—	6377	—	—	—	6347	—	—	—	6214	—	—	—
BD5	5755	—	—	—	5725	—	—	—	6486	—	—	—	6457	—	—	—	6332	—	—	—
UC	5756	—	—	—	5730	—	—	—	5091	—	—	—	5062	—	—	—	4936	0	0	0
DC1	5746	—	—	—	5720	—	—	—	5072	—	—	—	5043	—	—	—	4917	6	6	6
DC2	5474	—	—	—	5448	—	—	—	5167	—	—	—	5138	—	—	—	5022	—	—	—
E1	5991	—	—	—	5961	—	—	—	6851	—	—	—	6821	—	—	—	6691	—	—	—
E2	6082	—	—	—	6052	—	—	—	6231	—	—	—	6201	—	—	—	6066	—	—	—
E3	6037	—	—	—	6007	—	—	—	6217	—	—	—	6187	—	—	—	6052	—	—	—
E4	5708	—	—	—	5678	—	—	—	6497	—	—	—	6467	—	—	—	6343	—	—	—
E5	5489	—	—	—	5463	—	—	—	5204	—	—	—	5175	—	—	—	5059	—	—	—
E6	5956	—	—	—	5925	—	—	—	6801	—	—	—	6771	—	—	—	6642	—	—	—
E7	5849	—	—	—	5819	—	—	—	6831	—	—	—	6801	—	—	—	6675	—	—	—
E8	3418	9	9	9	3386	8	8	8	7462	—	—	—	7435	—	—	—	7381	—	—	—
E11	3880	7	7	7	3849	6	6	6	8885	—	—	—	8857	—	—	—	8801	—	—	—
E12	4613	4	4	4	4587	3	3	3	10576	—	—	—	10549	—	—	—	10499	—	—	—
E13	3806	8	8	8	3775	7	7	7	8505	—	—	—	8478	—	—	—	8419	—	—	—
E14	4286	5	5	5	4265	4	4	4	10872	—	—	—	10846	—	—	—	10813	—	—	—
E15	4496	10	10	10	4466	4	4	4	9650	—	—	—	9623	—	—	—	9559	—	—	—
E16	4608	10	10	10	4581	4	4	4	10314	—	—	—	10287	—	—	—	10232	—	—	—
E17	6064	—	—	—	6037	—	—	—	5159	—	—	—	5130	—	—	—	4993	2	—	—
E18	6107	—	—	—	6081	—	—	—	5156	—	—	—	5126	—	—	—	4988	2	—	—
EO_FEL	5519	—	—	—	5489	—	—	—	6592	—	—	—	6563	—	—	—	6445	—	—	—
EO_PC	5465	—	—	—	5435	—	—	—	6546	—	—	—	6517	—	—	—	6400	—	—	—
EO_SCNR	5467	—	—	—	5436	—	—	—	6564	—	—	—	6534	—	—	—	6418	—	—	—
EO_GENSET	5459	—	—	—	5429	—	—	—	6566	—	—	—	6536	—	—	—	6420	—	—	—
DD1	6029	—	—	—	5999	—	—	—	6376	—	—	—	6347	—	—	—	6213	—	—	—
DD2	6041	—	—	—	6011	—	—	—	6415	—	—	—	6385	—	—	—	6251	—	—	—
DD3	5996	—	—	—	5966	—	—	—	6331	—	—	—	6301	—	—	—	6168	—	—	—
DD4	6014	—	—	—	5985	—	—	—	6350	—	—	—	6320	—	—	—	6187	—	—	—
T1	4865	16	16	16	4840	15	15	15	4910	15	15	15	4881	14	14	14	4794	15	15	15
T2	4876	16	16	16	4851	15	15	15	4912	15	15	15	4883	14	14	14	4795	15	15	15
TD01	5267	—	—	—	5238	—	—	—	6162	—	—	—	6133	—	—	—	6022	—	—	—
TD02	5824	—	—	—	5795	—	—	—	6134	—	—	—	6104	—	—	—	5976	—	—	—
TD03	5241	—	—	—	5209	—	—	—	8202	—	—	—	8173	—	—	—	8073	—	—	—
TD04	6402	—	—	—	6375	—	—	—	5222	—	—	—	5192	—	—	—	5044	—	—	—
TD07D	6044	—	—	—	6015	—	—	—	6312	—	—	—	6282	—	—	—	6148	—	—	—
TD08D	5806	—	—	—	5776	—	—	—	6742	—	—	—	6712	—	—	—	6587	—	—	—
TD08N	6930	—	—	—	6905	—	—	—	4412	—	21	21	4383	—	19	19	4216	—	21	21
TD09	6690	—	—	—	6666	—	—	—	4312	10	10	10	4283	8	8	8	4124	10	10	10
TD11D	5853	—	—	—	5821	—	—	—	9101	—	—	—	9072	—	—	—	8965	—	—	—
TD11N	4923	—	16	16	4891	—	14	14	8099	—	—	—	8071	—	—	—	7978	—	—	—
TD12D	5336	—	—	—	5308	—	—	—	5931	—	—	—	5902	—	—	—	5789	—	—	—
TD15	5955	—	—	—	5925	—	—	—	6710	—	—	—	6680	—	—	—	6550	—	—	—
TD17	5922	—	—	—	5891	—	—	—	7195	—	—	—	7165	—	—	—	7039	—	—	—
TD18	3360	14	14	14	3328	13	13	13	7436	—	—	—	7409	—	—	—	7357	—	—	—
TD23	4408	15	15	15	4379	9	9	9	9554	—	—	—	9527	—	—	—	9464	—	—	—
TD24	4619	15	15	15	4592	9	9	9	10279	—	—	—	10252	—	—	—	10196	—	—	—
TD26	3597	13	13	13	3577	12	12	12	10512	—	—	—	10488	—	—	—	10468	—	—	—
TD27	3721	13	13	13	3701	11	11	11	10565	—	—	—	10540	—	—	—	10517	—	—	—
WD	6096	—	—	—	6066	—	—	—	6753	—	—	—	6723	—	—	—	6589	—	—	—
WL1	5869	—	—	—	5842	—	—	—	5085	—	—	—	5055	—	—	—	4925	18	18	18
WL2	6457	—	—	—	6429	—	—	—	5367	—	—	—	5337	—	—	—	5187	—	—	—
WL3	5801	—	—	—	5771	—	—	—	7004	—	—	—	6975	—	—	—	6851	—	—	—
WL4	3743	23	23	23	3711	23	23	23	8199	—	—	—	8171	—	—	—	8112	—	—	—
WL5	3833	23	23	23	3802	23	23	23	8628	—	—	—	8600	—	—	—	8542	—	—	—
WL6	4165	22	22	22	4133	21	21	21	8068	—	—	—	8040	—	—	—	7968	—	—	—
WP01	5851	—	—	—	5821	—	—	—	6196	—	—	—	6167	—	—	—	6038	—	—	—
WP02	6106	—	—	—	6078	—	—	—	5698	—	—	—	5669	—	—	—	5531	—	—	—
WP03	6086	—	—	—	6055	—	—	—	6957	—	—	—	6928	—	—	—	6796	—	—	—
WP04	6312	—	—	—	6282	—	—	—	6738	—	—	—	6708	—	—	—	6568	—	—	—
WP05	5589	—	—	—	5560	—	—	—	6405	—	—	—	6376	—	—	—	6255	—	—	—
WP06	5610	—	—	—	5582	—	—	—	5642	—	—	—	5613	—	—	—	5491	—	—	—
WP07	5372	—	—	—	5342	—	—	—	6358	—	—	—	6329	—	—	—	6215	—	—	—
WP08	5985	—	—	—	5956	—	—	—	6433	—	—	—	6403	—	—	—	6271	—	—	—
WP09	6113	—	—	—	6084	—	—	—	6268	—	—	—	6239	—	—	—	6102	—	—	—
WP10	5994	—	—	—	5963	—	—	—	6817	—	—	—	6787	—	—	—	6657	—	—	—
WP12	6427	—	—	—	6395	—	—	—	8022	—	—	—	7992	—	—	—	7860	—	—	—
WP13	6189	—	—	—	6158	—	—	—	7574	—	—	—	7544	—	—	—	7414	—	—	—
WP14	5365	—	—	—	5333	—	—	—	8662	—	—	—	8634	—	—	—	8535	—	—	—
WP15	5354	—	—	—	5322	—	—	—	8624	—	—	—	8595	—	—	—	8496	—	—	—
WP17	4375	0	0	0	4343	0	0	0	7474	—	—	—	7446	—	—	—	7364	—	—	—
WP18	6351	—	—	—	6320	—	—	—	9837	—	—	—	9808	—	—	—	9699	—	—	—
MBPA_GENSET	5766	—	—	—	5739	—	—	—	5131	—	—	—	5101	—	—	—	4975	14	14	14
COP1	3676	18	18	18	3644	17	17	17	7853	—	—	—	7826	—	—	—	7766	—	—	—
COP2	3891	17	17	17	3860	16	16	16	8806	—	—	—	8779	—	—	—	8721	—	—	—
TMA_Pump_H	4975	0	0	0	4946	0	0	0	10050	—	—	—	10022	—	—	—	9952	—	—	—
TMA_WP2_P1	4136	0	0	0	4110	0	0	0	10257	—	—	—	10231	—	—	—	10188	—	—	—
TMA_WP2_P2	4116	0	0	0	4091	0	0	0	10244	—</										

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR1			POR1a			POR3			POR3a			POR4							
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
TMA_WP2_P3	4096	0	0	0	4070	0	0	0	10228	—	—	—	10202	—	—	—	10160	—	—	—
TMA_WTP_Ex1	4813	0	0	0	4788	0	0	0	10751	—	—	—	10724	—	—	—	10672	—	—	—
TMA_WTP_Ex2	4829	0	0	0	4804	0	0	0	10758	—	—	—	10731	—	—	—	10678	—	—	—
TMA_Diesel Pump	4949	0	0	0	4925	0	0	0	10981	—	—	—	10954	—	—	—	10902	—	—	—
Asyl_chiller_1	4909	0	0	0	4883	0	0	0	5207	—	—	—	5178	—	—	—	5085	—	—	—
Asyl_chiller_2	4910	0	0	0	4883	0	0	0	5207	—	—	—	5178	—	—	—	5084	—	—	—
Asyl_MUA	4904	0	0	0	4878	0	0	0	5206	—	—	—	5177	—	—	—	5084	—	—	—
Asyl_DC1	4891	11	11	11	4865	9	9	9	5210	—	—	—	5182	—	—	—	5089	—	—	—
Asyl_DC2	4889	11	11	11	4862	9	9	9	5216	—	—	—	5188	—	—	—	5095	—	—	—
Mill_Exh1	5032	—	—	—	5006	—	—	—	5018	—	—	—	4989	16	16	16	4892	17	17	17
Mill_Exh2	5069	—	—	—	5043	—	—	—	5025	—	—	—	4996	13	13	13	4898	14	14	14
Mill_Exh3	4991	0	0	0	4965	0	0	0	4993	0	0	0	4964	0	0	0	4869	0	0	0
Mill_Exh4	4986	0	0	0	4961	0	0	0	4992	0	0	0	4963	0	0	0	4869	0	0	0
Mill_Exh5	4944	0	0	0	4918	0	0	0	4984	0	0	0	4955	0	0	0	4863	0	0	0
Mill_Exh6	4916	6	6	6	4890	4	4	4	4997	6	6	6	4968	5	5	5	4877	6	6	6
Mill_Exh7	4900	20	20	20	4875	19	19	19	5033	—	—	—	5004	—	—	—	4913	19	19	19
Mill_Exh8	4899	20	20	20	4874	19	19	19	5035	—	—	—	5006	—	—	—	4915	19	19	19
Loader	6158	—	—	—	6131	—	—	—	5529	—	—	—	5499	—	—	—	5359	—	—	—
WP19	5117	—	—	—	5096	—	—	—	11635	—	—	—	11609	—	—	—	11567	—	—	—
WP20	5590	—	—	—	5566	—	—	—	11571	—	—	—	11543	—	—	—	11486	—	—	—
WP21	5736	—	—	—	5710	—	—	—	11343	—	—	—	11315	—	—	—	11248	—	—	—
WP22	4082	0	0	0	4062	0	0	0	10879	—	—	—	10854	—	—	—	10827	—	—	—
WP23	3511	0	0	0	3493	0	0	0	10590	—	—	—	10566	—	—	—	10551	—	—	—
WP24	4071	0	0	0	4040	0	0	0	7814	—	—	—	7786	—	—	—	7715	—	—	—
WP25	4162	0	0	0	4137	0	0	0	5238	—	—	—	5211	—	—	—	5149	—	—	—
WP26	4701	0	0	0	4675	0	0	0	5229	—	—	—	5201	—	—	—	5116	—	—	—
WP27	5362	—	—	—	5335	—	—	—	5383	—	—	—	5354	—	—	—	5241	—	—	—
WP28	4520	0	0	0	4489	0	0	0	8996	—	—	—	8968	—	—	—	8895	—	—	—
TD_WRMS	5016	—	—	—	4984	14	14	14	8167	—	—	—	8139	—	—	—	8044	—	—	—
CP_JC	4106	19	19	19	4074	17	17	17	8113	—	—	—	8086	—	—	—	8015	—	—	—
CP_S	4122	16	16	16	4090	14	14	14	8110	—	—	—	8082	—	—	—	8012	—	—	—
CP_Gen	4133	17	17	17	4101	16	16	16	8128	—	—	—	8100	—	—	—	8029	—	—	—
CP_loader	4094	6	6	6	4062	4	4	4	8124	—	—	—	8096	—	—	—	8027	—	—	—
Intake	6164	—	—	—	6139	—	—	—	4749	0	0	0	4719	0	0	0	4579	0	0	0
Mat_drop	5754	—	—	—	5728	—	—	—	5101	—	—	—	5071	—	—	—	4945	12	12	12
WP29	2378	5	5	5	2356	4	4	4	9452	—	—	—	9428	—	—	—	9423	—	—	—
WP30	1962	8	8	8	1941	6	6	6	9244	—	—	—	9221	—	—	—	9225	—	—	—
WP31	1864	8	8	8	1838	7	7	7	8737	—	—	—	8713	—	—	—	8711	—	—	—
WP32	2363	5	5	5	2331	4	4	4	7698	—	—	—	7673	—	—	—	7651	—	—	—
WP33	2506	4	4	4	2475	3	3	3	7246	—	—	—	7221	—	—	—	7195	—	—	—
WP34	2719	6	6	6	2689	5	5	5	6980	—	—	—	6955	—	—	—	6924	—	—	—
WP35	3626	0	0	0	3595	0	0	0	7218	—	—	—	7190	—	—	—	7130	—	—	—
WP36	4659	0	0	0	4629	0	0	0	9504	—	—	—	9504	—	—	—	9406	—	—	—
WP37	4148	0	0	0	4116	0	0	0	7991	—	—	—	7963	—	—	—	7891	—	—	—
WP38	4213	0	0	0	4182	0	0	0	8991	—	—	—	8963	—	—	—	8898	—	—	—
WP39	4869	0	0	0	4837	0	0	0	7627	—	—	—	7598	—	—	—	7504	—	—	—
WP40	6433	—	—	—	6401	—	—	—	8379	—	—	—	8349	—	—	—	8220	—	—	—
WP41	7368	—	—	—	7340	—	—	—	5787	—	—	—	5758	—	—	—	5584	—	—	—
MGR_NPA_G	5063 / 6340	—	—	—	5031 / 6311	—	—	—	6347 / 8217	—	—	—	6317 / 8188	—	—	—	6175 / 8093	—	—	—
MGR_OB	4714 / 6341	0	0	0	4682 / 6312	0	0	0	6347 / 7659	—	—	—	6318 / 7630	—	—	—	6176 / 7534	—	—	—
MGR_OPMil_I	5805 / 6360	—	—	—	5779 / 6332	—	—	—	5138 / 6684	—	—	—	5108 / 6655	—	—	—	4981 / 6522	0	0	0
MGR_PAG	6095 / 6558	—	—	—	6065 / 6534	—	—	—	4088 / 6625	0	0	0	4058 / 6595	0	0	0	3905 / 6461	0	0	0
MGR_SP	6095 / 6877	—	—	—	6065 / 6852	—	—	—	4374 / 6625	0	0	0	4345 / 6595	0	0	0	4180 / 6461	0	0	0
TRE_OP_N_PAG	5063 / 6343	—	—	—	5031 / 6313	—	—	—	6342 / 8217	—	—	—	6312 / 8188	—	—	—	6170 / 8093	—	—	—
TRE_OP_O_B	4714 / 6342	0	0	0	4682 / 6313	0	0	0	6349 / 7659	—	—	—	6319 / 7630	—	—	—	6177 / 7534	—	—	—
TRE_OP_Mil_II	5805 / 6359	—	—	—	5779 / 6330	—	—	—	5138 / 6685	—	—	—	5108 / 6656	—	—	—	4981 / 6523	0	0	0
TRE_OP_P_AG	6095 / 6559	—	—	—	6065 / 6536	—	—	—	4090 / 6625	0	0	0	4060 / 6595	0	0	0	3907 / 6461	0	0	0
TRE_OP_L_GO	6095 / 6877	—	—	—	6065 / 6852	—	—	—	4376 / 6625	0	0	0	4346 / 6595	0	0	0	4181 / 6461	0	0	0
TRE_OP_T_MA	4017 / 6341	0	0	0	3985 / 6312	0	0	0	6346 / 8057	—	—	—	6317 / 8029	—	—	—	6175 / 7960	—	—	—
TRL_OP_N_PAG	5063 / 6344	—	—	—	5031 / 6314	—	—	—	6344 / 8217	—	—	—	6314 / 8188	—	—	—	6172 / 8093	—	—	—
TRL_OP_O_B	4714 / 6342	0	0	0	4682 / 6312	0	0	0	6347 / 7659	—	—	—	6318 / 7630	—	—	—	6176 / 7534	—	—	—
TRL_OP_Mil_II	5805 / 6349	—	—	—	5779 / 6320	—	—	—	5138 / 6677	—	—	—	5108 / 6647	—	—	—	4981 / 6516	0	0	0
TRL_OP_P_AG	6095 / 6556	—	—	—	6065 / 6533	—	—	—	4088 / 6625	0	0	0	4059 / 6595	0	0	0	3906 / 6461	1	1	1
TRL_OP_L_GO	6095 / 6876	—	—	—	6065 / 6852	—	—	—	4377 / 6625	0	0	0	4347 / 6595	0	0	0	4182 / 6461	0	0	0

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR1			POR1a			POR3			POR3a			POR4							
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
TRL_OP_TMA	4017 / 6341	0	0	0	3985 / 6312	0	0	0	6344 / 8057	—	—	—	6315 / 8029	—	—	—	6173 / 7960	—	—	—
WTR_NPA_G	5063 / 6343	—	—	—	5031 / 6314	—	—	—	6347 / 8217	—	—	—	6317 / 8188	—	—	—	6175 / 8093	—	—	—
WTR_OB	4714 / 6341	0	0	0	4682 / 6312	0	0	0	6345 / 7659	—	—	—	6315 / 7630	—	—	—	6173 / 7534	—	—	—
WTR_OPMI	5805 / 6362	—	—	—	5779 / 6333	—	—	—	5138 / 6687	—	—	—	5108 / 6657	—	—	—	4981 / 6525	0	0	0
WTR_PAG	6095 / 6559	—	—	—	6065 / 6536	—	—	—	4086 / 6625	0	0	0	4057 / 6595	0	0	0	3904 / 6461	0	0	0
WTR_SP	6095 / 6876	—	—	—	6065 / 6851	—	—	—	4376 / 6625	0	0	0	4347 / 6595	0	0	0	4181 / 6461	0	0	0
TRE_TMA1	3019 / 5130	9	9	9	2987 / 5108	7	7	7	7204 / 11479	—	—	—	7178 / 11452	—	—	—	7136 / 11408	—	—	—
TRL_TMA1	3016 / 5133	10	10	10	2984 / 5111	8	8	8	7208 / 11479	—	—	—	7182 / 11452	—	—	—	7140 / 11408	—	—	—
TRL_TMA_2023	1983 / 3614	15	15	15	1957 / 3595	13	13	13	7032 / 10589	—	—	—	7007 / 10564	—	—	—	6976 / 10545	—	—	—
TRE_TMA_2023	1981 / 3613	14	14	14	1956 / 3594	12	12	12	7033 / 10589	—	—	—	7007 / 10565	—	—	—	6976 / 10546	—	—	—
MGR2_NPA_G	4625 / 5568	0	0	0	4593 / 5536	0	0	0	7779 / 8659	—	—	—	7750 / 8630	—	—	—	7663 / 8533	—	—	—
TRE_OP2_NPAG	4625 / 5568	0	0	0	4593 / 5536	0	0	0	7779 / 8659	—	—	—	7750 / 8630	—	—	—	7663 / 8533	—	—	—
TRL_OP2_NPAG	4625 / 5568	0	0	0	4593 / 5536	0	0	0	7779 / 8659	—	—	—	7750 / 8630	—	—	—	7663 / 8533	—	—	—
WTR2_NPA_G	4625 / 5568	0	0	0	4593 / 5536	0	0	0	7779 / 8659	—	—	—	7750 / 8630	—	—	—	7663 / 8533	—	—	—
WTR3_NPA_G	5413 / 6207	—	—	—	5382 / 6175	—	—	—	7379 / 8467	—	—	—	7350 / 8437	—	—	—	7239 / 8320	—	—	—
MGR3_NPA_G	5413 / 6207	—	—	—	5382 / 6175	—	—	—	7379 / 8467	—	—	—	7350 / 8437	—	—	—	7239 / 8320	—	—	—
TRE_OP3_NPAG	5413 / 6207	—	—	—	5382 / 6175	—	—	—	7379 / 8467	—	—	—	7350 / 8437	—	—	—	7239 / 8320	—	—	—
TRL_OP3_NPAG	5413 / 6207	—	—	—	5382 / 6175	—	—	—	7379 / 8467	—	—	—	7350 / 8437	—	—	—	7239 / 8320	—	—	—
TRL_OP4_NPAG	5434 / 6050	—	—	—	5402 / 6018	—	—	—	7403 / 9112	—	—	—	7373 / 9083	—	—	—	7262 / 8973	—	—	—
MGR4_NPA_G	5434 / 6050	—	—	—	5402 / 6018	—	—	—	7403 / 9112	—	—	—	7373 / 9083	—	—	—	7262 / 8973	—	—	—
TRE_OP4_NPAG	5434 / 6050	—	—	—	5402 / 6018	—	—	—	7403 / 9112	—	—	—	7373 / 9083	—	—	—	7262 / 8973	—	—	—
WTR4_NPA_G	5434 / 6050	—	—	—	5402 / 6018	—	—	—	7403 / 9112	—	—	—	7373 / 9083	—	—	—	7262 / 8973	—	—	—
Packer_TM_A1	1982 / 5131	21	21	21	1956 / 5109	20	20	20	7031 / 11476	—	—	—	7005 / 11449	—	—	—	6974 / 11405	—	—	—
Scraper_TMA1	1979 / 5133	14	14	14	1953 / 5111	13	13	13	7033 / 11478	—	—	—	7007 / 11451	—	—	—	6976 / 11407	—	—	—
Mill_intake_E	5032 / 5049	—	—	—	5006 / 5023	—	—	—	5017 / 5019	—	—	—	4988 / 4990	0	0	0	4892 / 4894	0	0	0
Mill_intake_N	4847 / 5022	—	—	—	4822 / 4997	0	0	0	4969 / 4998	0	0	0	4941 / 4969	0	0	0	4853 / 4873	0	0	0
Mill_BD10E	5024 / 5024	—	—	—	4998 / 4998	0	0	0	5016 / 5016	—	—	—	4987 / 4987	0	0	0	4891 / 4891	0	0	0
Mill_BD9E	4994 / 4997	0	0	0	4968 / 4972	0	0	0	4995 / 4995	0	0	0	4966 / 4967	0	0	0	4871 / 4872	0	0	0
Mill_BD27W	4941 / 4941	3	3	3	4915 / 4915	2	2	2	5055 / 5055	—	—	—	5026 / 5026	—	—	—	4933 / 4933	0	0	0
Mill_BD18W	4904 / 4904	—	—	—	4878 / 4878	6	6	6	5049 / 5049	—	—	—	5020 / 5020	—	—	—	4929 / 4929	0	0	0

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR4a			POR6			POR6a			POR7			POR7a			POR8								
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
BD2	6200	—	—	—	5560	—	—	—	5529	—	—	—	6091	—	—	—	6078	—	—	—	5381	—	—	—
BD3	6327	—	—	—	5795	—	—	—	5764	—	—	—	6363	—	—	—	6350	—	—	—	5662	—	—	—
BD4	6185	—	—	—	5537	—	—	—	5506	—	—	—	6065	—	—	—	6052	—	—	—	5356	—	—	—
BD5	6303	—	—	—	5767	—	—	—	5736	—	—	—	6336	—	—	—	6323	—	—	—	5635	—	—	—
UC	4907	0	0	0	4589	2	2	2	4558	0	0	0	5433	—	—	—	5421	—	—	—	4870	1	1	1
DC1	4888	4	4	4	4582	8	8	8	4550	6	6	6	5432	—	—	—	5420	—	—	—	4873	7	7	7
DC2	4994	4	4	4	4820	7	7	7	4788	5	5	5	5703	—	—	—	5691	—	—	—	5151	—	—	—
E1	6662	—	—	—	6002	—	—	—	5971	—	—	—	6471	—	—	—	6459	—	—	—	5733	—	—	—
E2	6036	—	—	—	5359	—	—	—	5328	—	—	—	5892	—	—	—	5879	—	—	—	5187	—	—	—
E3	6023	—	—	—	5369	—	—	—	5339	—	—	—	5915	—	—	—	5902	—	—	—	5215	—	—	—
E4	6314	—	—	—	5800	—	—	—	5770	—	—	—	6379	—	—	—	6366	—	—	—	5681	—	—	—
E5	5030	—	—	—	4837	14	14	14	4805	13	13	13	5708	—	—	—	5696	—	—	—	5150	—	—	—
E6	6613	—	—	—	5970	—	—	—	5939	—	—	—	6453	—	—	—	6440	—	—	—	5720	—	—	—
E7	6646	—	—	—	6051	—	—	—	6021	—	—	—	6555	—	—	—	6542	—	—	—	5827	—	—	—
E8	7357	—	—	—	7751	—	—	—	7719	—	—	—	8657	—	—	—	8645	—	—	—	8060	—	—	—
E11	8776	—	—	—	9025	—	—	—	8993	—	—	—	9796	—	—	—	9783	—	—	—	9129	—	—	—
E12	10475	—	—	—	10724	—	—	—	10693	—	—	—	11432	—	—	—	11419	—	—	—	10729	—	—	—
E13	8395	—	—	—	8642	—	—	—	8610	—	—	—	9430	—	—	—	9417	—	—	—	8772	—	—	—
E14	10790	—	—	—	11247	—	—	—	11215	—	—	—	12047	—	—	—	12035	—	—	—	11377	—	—	—
E15	9534	—	—	—	9652	—	—	—	9620	—	—	—	10327	—	—	—	10314	—	—	—	9619	—	—	—
E16	10208	—	—	—	10402	—	—	—	10370	—	—	—	11091	—	—	—	11078	—	—	—	10383	—	—	—
E17	4963	1	—	—	4448	5	—	—	4416	4	—	—	5206	—	—	—	5194	—	—	—	4614	4	—	—
E18	4958	1	—	—	4418	5	—	—	4386	4	—	—	5167	—	—	—	5155	—	—	—	4572	4	—	—
EO_FEL	6416	—	—	—	5984	—	—	—	5953	—	—	—	6591	—	—	—	6578	—	—	—	5900	—	—	—
EO_PC	6372	—	—	—	5968	—	—	—	5937	—	—	—	6592	—	—	—	6580	—	—	—	5908	—	—	—
EO_SCNR	6389	—	—	—	5984	—	—	—	5953	—	—	—	6605	—	—	—	6592	—	—	—	5919	—	—	—
EO_GENSET	6391	—	—	—	5989	—	—	—	5958	—	—	—	6612	—	—	—	6599	—	—	—	5927	—	—	—
DD1	6183	—	—	—	5523	—	—	—	5493	—	—	—	6046	—	—	—	6033	—	—	—	5334	—	—	—
DD2	6222	—	—	—	5553	—	—	—	5523	—	—	—	6068	—	—	—	6055	—	—	—	5353	—	—	—
DD3	6139	—	—	—	5497	—	—	—	5467	—	—	—	6034	—	—	—	6022	—	—	—	5329	—	—	—
DD4	6157	—	—	—	5505	—	—	—	5475	—	—	—	6035	—	—	—	6022	—	—	—	5327	—	—	—
T1	4767	14	14	14	5043	—	—	—	5011	—	—	—	6111	—	—	—	6099	—	—	—	5639	—	—	—
T2	4768	14	14	14	5037	—	—	—	5005	—	—	—	6102	—	—	—	6091	—	—	—	5630	—	—	—
TD01	5994	—	—	—	5725	—	—	—	5694	—	—	—	6449	—	—	—	6437	—	—	—	5807	—	—	—
TD02	5947	—	—	—	5406	—	—	—	5376	—	—	—	6014	—	—	—	6002	—	—	—	5336	—	—	—
TD03	8045	—	—	—	7731	—	—	—	7700	—	—	—	8265	—	—	—	8252	—	—	—	7524	—	—	—
TD04	5014	—	—	—	4287	22	22	22	4256	21	21	21	4952	20	20	20	4939	18	18	18	4328	25	25	25
TD07D	6118	—	—	—	5454	—	—	—	5424	—	—	—	5983	—	—	—	5970	—	—	—	5275	—	—	—
TD08D	6558	—	—	—	5985	—	—	—	5955	—	—	—	6510	—	—	—	6497	—	—	—	5790	—	—	—
TD08N	4186	—	20	20	3304	—	25	25	3273	—	24	24	4096	—	22	22	4084	—	21	21	3572	—	24	24
TD09	4094	9	9	9	3413	14	14	14	3381	13	13	13	4291	11	11	11	4280	9	9	9	3797	13	13	13
TD11D	8937	—	—	—	8470	—	—	—	8439	—	—	—	8870	—	—	—	8857	—	—	—	8081	—	—	—
TD11N	7951	—	—	—	7757	—	—	—	7726	—	—	—	8357	—	—	—	8344	—	—	—	7638	—	—	—
TD12D	5760	—	—	—	5491	—	—	—	5460	—	—	—	6241	—	—	—	6229	—	—	—	5615	—	—	—
TD15	6521	—	—	—	5881	—	—	—	5851	—	—	—	6376	—	—	—	6363	—	—	—	5648	—	—	—
TD17	7010	—	—	—	6379	—	—	—	6349	—	—	—	6830	—	—	—	6818	—	—	—	6080	—	—	—
TD18	7333	—	—	—	7751	—	—	—	7719	—	—	—	8668	—	—	—	8656	—	—	—	8076	—	—	—
TD23	9439	—	—	—	9574	—	—	—	9543	—	—	—	10262	—	—	—	10250	—	—	—	9559	—	—	—
TD24	10171	—	—	—	10354	—	—	—	10322	—	—	—	11038	—	—	—	11025	—	—	—	10329	—	—	—
TD26	10446	—	—	—	11093	—	—	—	11061	—	—	—	11993	—	—	—	11981	—	—	—	11365	—	—	—
TD27	10496	—	—	—	11104	—	—	—	11072	—	—	—	11985	—	—	—	11972	—	—	—	11349	—	—	—
WD	6560	—	—	—	5853	—	—	—	5823	—	—	—	6310	—	—	—	6297	—	—	—	5570	—	—	—
WL1	4896	17	17	17	4514	20	20	20	4483	19	19	19	5335	—	—	—	5323	—	—	—	4765	19	19	19
WL2	5157	—	—	—	4374	17	17	17	4343	16	16	16	4989	15	15	15	4977	14	14	14	4344	17	17	17
WL3	6822	—	—	—	6245	—	—	—	6215	—	—	—	6741	—	—	—	6728	—	—	—	6008	—	—	—
WL4	8087	—	—	—	8345	—	—	—	8314	—	—	—	9153	—	—	—	9141	—	—	—	8507	—	—	—
WL5	8517	—	—	—	8762	—	—	—	8731	—	—	—	9543	—	—	—	9531	—	—	—	8882	—	—	—
WL6	7942	—	—	—	8039	—	—	—	8008	—	—	—	8780	—	—	—	8767	—	—	—	8110	—	—	—
WP01	6009	—	—	—	5449	—	—	—	5418	—	—	—	6040	—	—	—	6028	—	—	—	5355	—	—	—
WP02	5501	—	—	—	4865	0	0	0	4835	0	0	0	5490	—	—	—	5477	—	—	—	4831	0	0	0
WP03	6766	—	—	—	6062	—	—	—	6032	—	—	—	6499	—	—	—	6486	—	—	—	5749	—	—	—
WP04	6539	—	—	—	5731	—	—	—	5701	—	—	—	6138	—	—	—	6125	—	—	—	5385	—	—	—
WP05	6226	—	—	—	5775	—	—	—	5744	—	—	—	6393	—	—	—	6380	—	—	—	5709	—	—	—
WP06	5462	—	—	—	5101	—	—	—	5070	—	—	—	5849	—	—	—	5836	—	—	—	5231	—	—	—
WP07	6186	—	—	—	5844	—	—	—	5812	—	—	—	6515	—	—	—	6502	—	—	—	5850	—	—	—
WP08	6242	—	—	—	5599	—	—	—	5568	—	—	—	6123	—	—	—	6110	—	—	—	5411	—	—	—
WP09	6073	—	—	—	5377	—	—	—	5347	—	—	—	5897	—	—	—	5884	—	—	—	5187	—	—	—

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR4a				POR6				POR6a				POR7				POR7a				POR8			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
TMA_WP2_P3	10137	—	—	—	10510	—	—	—	10478	—	—	—	11290	—	—	—	11277	—	—	—	10615	—	—	—
TMA_WTP_Ex1	10647	—	—	—	10859	—	—	—	10828	—	—	—	11543	—	—	—	11530	—	—	—	10830	—	—	—
TMA_WTP_Ex2	10654	—	—	—	10861	—	—	—	10829	—	—	—	11542	—	—	—	11529	—	—	—	10828	—	—	—
TMA_Diesel Pump	10878	—	—	—	11092	—	—	—	11061	—	—	—	11770	—	—	—	11757	—	—	—	11054	—	—	—
AsyL_chiller 1	5058	—	—	—	5195	—	—	—	5163	—	—	—	6182	—	—	—	6170	—	—	—	5667	—	—	—
AsyL_chiller 2	5057	—	—	—	5194	—	—	—	5162	—	—	—	6181	—	—	—	6170	—	—	—	5667	—	—	—
AsyL_MUA	5056	—	—	—	5197	—	—	—	5165	—	—	—	6186	—	—	—	6174	—	—	—	5671	—	—	—
AsyL_DC1	5062	—	—	—	5208	—	—	—	5176	—	—	—	6198	—	—	—	6186	—	—	—	5684	—	—	—
AsyL_DC2	5068	—	—	—	5213	—	—	—	5181	—	—	—	6202	—	—	—	6191	—	—	—	5688	—	—	—
Mill_Exh1	4865	16	16	16	4998	14	14	14	4966	14	14	14	6007	—	—	—	5995	—	—	—	5507	—	—	—
Mill_Exh2	4871	14	14	14	4979	15	15	15	4947	14	14	14	5979	—	—	—	5967	—	—	—	5475	—	—	—
Mill_Exh3	4842	0	0	0	5009	—	—	—	4977	0	0	0	6032	—	—	—	6021	—	—	—	5539	—	—	—
Mill_Exh4	4842	0	0	0	5012	—	—	—	4980	0	0	0	6035	—	—	—	6024	—	—	—	5543	—	—	—
Mill_Exh5	4836	0	0	0	5034	—	—	—	5002	—	—	—	6068	—	—	—	6057	—	—	—	5581	—	—	—
Mill_Exh6	4850	4	4	4	5060	—	—	—	5028	—	—	—	6096	—	—	—	6085	—	—	—	5609	—	—	—
Mill_Exh7	4887	17	17	17	5092	—	—	—	5060	—	—	—	6122	—	—	—	6111	—	—	—	5631	—	—	—
Mill_Exh8	4888	17	17	17	5093	—	—	—	5061	—	—	—	6124	—	—	—	6112	—	—	—	5632	—	—	—
Loader	5330	—	—	—	4690	19	19	19	4659	18	18	18	5339	—	—	—	5326	—	—	—	4695	18	18	18
WP19	11544	—	—	—	11875	—	—	—	11843	—	—	—	12593	—	—	—	12580	—	—	—	11888	—	—	—
WP20	11461	—	—	—	11574	—	—	—	11542	—	—	—	12182	—	—	—	12169	—	—	—	11440	—	—	—
WP21	11223	—	—	—	11216	—	—	—	11185	—	—	—	11768	—	—	—	11755	—	—	—	11010	—	—	—
WP22	10805	—	—	—	11351	—	—	—	11320	—	—	—	12194	—	—	—	12182	—	—	—	11541	—	—	—
WP23	10530	—	—	—	11238	—	—	—	11206	—	—	—	12165	—	—	—	12152	—	—	—	11548	—	—	—
WP24	7689	—	—	—	7820	—	—	—	7788	—	—	—	8590	—	—	—	8578	—	—	—	7935	—	—	—
WP25	5125	—	—	—	5676	—	—	—	5645	—	—	—	6800	—	—	—	6789	—	—	—	6342	—	—	—
WP26	5089	—	—	—	5336	—	—	—	5305	—	—	—	6359	—	—	—	6348	—	—	—	5858	—	—	—
WP27	5213	—	—	—	5044	—	—	—	5012	—	—	—	5900	—	—	—	5888	—	—	—	5330	—	—	—
WP28	8869	—	—	—	8893	—	—	—	8862	—	—	—	9551	—	—	—	9538	—	—	—	8842	—	—	—
TD_WRMS	8017	—	—	—	7789	—	—	—	7758	—	—	—	8368	—	—	—	8355	—	—	—	7642	—	—	—
CP_JC	7990	—	—	—	8110	—	—	—	8079	—	—	—	8859	—	—	—	8847	—	—	—	8192	—	—	—
CP_S	7986	—	—	—	8101	—	—	—	8069	—	—	—	8847	—	—	—	8834	—	—	—	8179	—	—	—
CP_Gen	8003	—	—	—	8114	—	—	—	8083	—	—	—	8858	—	—	—	8845	—	—	—	8188	—	—	—
CP_loader	8001	—	—	—	8126	—	—	—	8095	—	—	—	8877	—	—	—	8864	—	—	—	8210	—	—	—
Intake	4550	0	0	0	4080	0	0	0	4049	0	0	0	4929	0	0	0	4918	0	0	0	4389	0	0	0
Mat_drop	4916	11	11	11	4597	14	14	14	4566	13	13	13	5439	—	—	—	5427	—	—	—	4875	14	14	14
WP29	9403	—	—	—	10279	—	—	—	10247	—	—	—	11312	—	—	—	11301	—	—	—	10752	—	—	—
WP30	9206	—	—	—	10199	—	—	—	10168	—	—	—	11290	—	—	—	11279	—	—	—	10759	—	—	—
WP31	8692	—	—	—	9639	—	—	—	9607	—	—	—	10725	—	—	—	10714	—	—	—	10196	—	—	—
WP32	7629	—	—	—	8395	—	—	—	8363	—	—	—	9444	—	—	—	9433	—	—	—	8908	—	—	—
WP33	7173	—	—	—	7935	—	—	—	7903	—	—	—	9004	—	—	—	8992	—	—	—	8482	—	—	—
WP34	6902	—	—	—	7624	—	—	—	7592	—	—	—	8691	—	—	—	8679	—	—	—	8171	—	—	—
WP35	7106	—	—	—	7437	—	—	—	7405	—	—	—	8331	—	—	—	8319	—	—	—	7732	—	—	—
WP36	9380	—	—	—	9415	—	—	—	9384	—	—	—	10056	—	—	—	10043	—	—	—	9337	—	—	—
WP37	7865	—	—	—	7968	—	—	—	7936	—	—	—	8715	—	—	—	8702	—	—	—	8048	—	—	—
WP38	8873	—	—	—	9010	—	—	—	8979	—	—	—	9723	—	—	—	9711	—	—	—	9034	—	—	—
WP39	7476	—	—	—	7293	—	—	—	7261	—	—	—	7929	—	—	—	7916	—	—	—	7228	—	—	—
WP40	8191	—	—	—	7415	—	—	—	7385	—	—	—	7691	—	—	—	7677	—	—	—	6877	—	—	—
WP41	5553	—	—	—	4223	0	0	0	4195	0	0	0	4498	0	0	0	4485	0	0	0	3744	0	0	0
MGR_NPA_G	6145 / 8065	—	—	—	5349 / 7822	—	—	—	5319 / 7791	—	—	—	5810 / 8390	—	—	—	5797 / 8377	—	—	—	5078 / 7660	—	—	—
MGR_OB	6146 / 7507	—	—	—	5348 / 7298	—	—	—	5318 / 7267	—	—	—	5807 / 7920	—	—	—	5794 / 7907	—	—	—	5077 / 7214	—	—	—
MGR_OPMil I	4951 / 6492	0	0	0	4593 / 5839	0	0	0	4561 / 5808	0	0	0	5368 / 6375	—	—	—	5355 / 6362	—	—	—	4741 / 5661	0	0	0
MGR_PAG	3875 / 6431	0	0	0	3375 / 5728	3	3	3	3344 / 5698	2	2	2	4360 / 6201	0	0	0	4349 / 6188	0	0	0	3915 / 5469	2	2	2
MGR_SP	4149 / 6431	0	0	0	3317 / 5728	3	3	3	3285 / 5698	2	2	2	4134 / 6201	0	0	0	4122 / 6188	0	0	0	3619 / 5469	3	3	3
TRE_OP_N PAG	6141 / 8065	—	—	—	5343 / 7822	—	—	—	5313 / 7791	—	—	—	5804 / 8390	—	—	—	5791 / 8377	—	—	—	5075 / 7660	—	—	—
TRE_OP_O B	6147 / 7507	—	—	—	5349 / 7298	—	—	—	5319 / 7267	—	—	—	5807 / 7920	—	—	—	5794 / 7907	—	—	—	5077 / 7214	—	—	—
TRE_OP_Mi II	4951 / 6494	0	0	0	4593 / 5839	0	0	0	4561 / 5808	0	0	0	5334 / 6373	—	—	—	5321 / 6361	—	—	—	4689 / 5660	0	0	0
TRE_OP_P AG	3877 / 6431	0	0	0	3375 / 5728	4	4	4	3343 / 5698	3	3	3	4358 / 6201	0	0	0	4347 / 6188	0	0	0	3913 / 5469	3	3	3
TRE_OP_L GO	4151 / 6431	0	0	0	3317 / 5728	0	0	0	3286 / 5698	0	0	0	4134 / 6201	0	0	0	4122 / 6188	0	0	0	3619 / 5469	0	0	0
TRE_OP_T MA	6145 / 7935	—	—	—	5347 / 8078	—	—	—	5317 / 8047	—	—	—	5806 / 8841	—	—	—	5793 / 8828	—	—	—	5078 / 8179	—	—	—
TRL_OP_N PAG	6142 / 8065	—	—	—	5345 / 7822	—	—	—	5315 / 7791	—	—	—	5806 / 8390	—	—	—	5793 / 8377	—	—	—	5077 / 7660	—	—	—
TRL_OP_O B	6146 / 7507	—	—	—	5349 / 7298	—	—	—	5319 / 7267	—	—	—	5809 / 7920	—	—	—	5796 / 7907	—	—	—	5078 / 7214	—	—	—
TRL_OP_Mi II	4951 / 6486	0	0	0	4593 / 5842	0	0	0	4561 / 5811	0	0	0	5334 / 6378	—	—	—	5322 / 6365	—	—	—	4689 / 5664	0	0	0
TRL_OP_P AG	3876 / 6431	0	0	0	3376 / 5728	5	5	5	3345 / 5698	4	4	4	4361 / 6201	0	0	0	4350 / 6188	0	0	0	3916 / 5469	5	5	5
TRL_OP_L GO	4151 / 6431	0																						

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR4a				POR6				POR6a				POR7				POR7a				POR8			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
TRL_OP_TMA	6143 / 7935	—	—	—	5346 / 8078	—	—	—	5316 / 8047	—	—	—	5806 / 8841	—	—	—	5793 / 8828	—	—	—	5077 / 8179	—	—	—
WTR_NPA_G	6145 / 8065	—	—	—	5348 / 7822	—	—	—	5318 / 7791	—	—	—	5808 / 8390	—	—	—	5795 / 8377	—	—	—	5077 / 7660	—	—	—
WTR_OB	6143 / 7507	—	—	—	5346 / 7298	—	—	—	5316 / 7267	—	—	—	5806 / 7920	—	—	—	5793 / 7907	—	—	—	5078 / 7214	—	—	—
WTR_OPMI_I	4951 / 6495	0	0	0	4593 / 5839	0	0	0	4561 / 5809	0	0	0	5368 / 6376	—	—	—	5355 / 6363	—	—	—	4740 / 5662	0	0	0
WTR_PAG	3874 / 6431	0	0	0	3373 / 5728	2	2	2	3341 / 5698	1	1	1	4358 / 6201	0	0	0	4347 / 6188	0	0	0	3913 / 5469	1	1	1
WTR_SP	4151 / 6431	0	0	0	3318 / 5728	2	2	2	3287 / 5698	0	0	0	4135 / 6201	0	0	0	4123 / 6188	0	0	0	3620 / 5469	1	1	1
TRE_TMA1	7113 / 11384	—	—	—	7684 / 11677	—	—	—	7652 / 11646	—	—	—	8579 / 12397	—	—	—	8567 / 12384	—	—	—	7969 / 11696	—	—	—
TRL_TMA1	7117 / 11384	—	—	—	7677 / 11678	—	—	—	7646 / 11647	—	—	—	8607 / 12396	—	—	—	8595 / 12384	—	—	—	7997 / 11695	—	—	—
TRL_TMA_2_023	6953 / 10524	—	—	—	7666 / 11186	—	—	—	7634 / 11154	—	—	—	8682 / 12091	—	—	—	8670 / 12079	—	—	—	8127 / 11473	—	—	—
TRE_TMA_2023	6954 / 10525	—	—	—	7667 / 11187	—	—	—	7635 / 11155	—	—	—	8683 / 12093	—	—	—	8671 / 12080	—	—	—	8128 / 11474	—	—	—
MGR2_NPA_G	7637 / 8506	—	—	—	7551 / 8210	—	—	—	7520 / 8179	—	—	—	8138 / 8740	—	—	—	8125 / 8727	—	—	—	7399 / 7999	—	—	—
TRE_OP2_NPAG	7637 / 8506	—	—	—	7551 / 8210	—	—	—	7520 / 8179	—	—	—	8138 / 8740	—	—	—	8125 / 8727	—	—	—	7399 / 7999	—	—	—
TRL_OP2_NPAG	7637 / 8506	—	—	—	7551 / 8210	—	—	—	7520 / 8179	—	—	—	8138 / 8740	—	—	—	8125 / 8727	—	—	—	7399 / 7999	—	—	—
WTR2_NPA_G	7637 / 8506	—	—	—	7551 / 8210	—	—	—	7520 / 8179	—	—	—	8138 / 8740	—	—	—	8125 / 8727	—	—	—	7399 / 7999	—	—	—
WTR3_NPA_G	7211 / 8292	—	—	—	6801 / 7700	—	—	—	6770 / 7671	—	—	—	7346 / 8072	—	—	—	7333 / 8059	—	—	—	6576 / 7282	—	—	—
MGR3_NPA_G	7211 / 8292	—	—	—	6801 / 7700	—	—	—	6770 / 7671	—	—	—	7346 / 8072	—	—	—	7333 / 8059	—	—	—	6576 / 7282	—	—	—
TRE_OP3_NPAG	7211 / 8292	—	—	—	6801 / 7700	—	—	—	6770 / 7671	—	—	—	7346 / 8072	—	—	—	7333 / 8059	—	—	—	6576 / 7282	—	—	—
TRL_OP3_NPAG	7211 / 8292	—	—	—	6801 / 7700	—	—	—	6770 / 7671	—	—	—	7346 / 8072	—	—	—	7333 / 8059	—	—	—	6576 / 7282	—	—	—
TRL_OP4_NPAG	7234 / 8944	—	—	—	6815 / 8417	—	—	—	6785 / 8387	—	—	—	7354 / 8784	—	—	—	7342 / 8771	—	—	—	6627 / 7987	—	—	—
MGR4_NPA_G	7234 / 8944	—	—	—	6815 / 8417	—	—	—	6785 / 8387	—	—	—	7354 / 8784	—	—	—	7342 / 8771	—	—	—	6627 / 7987	—	—	—
TRE_OP4_NPAG	7234 / 8944	—	—	—	6815 / 8417	—	—	—	6785 / 8387	—	—	—	7354 / 8784	—	—	—	7342 / 8771	—	—	—	6627 / 7987	—	—	—
WTR4_NPA_G	7234 / 8944	—	—	—	6815 / 8417	—	—	—	6785 / 8387	—	—	—	7354 / 8784	—	—	—	7342 / 8771	—	—	—	6627 / 7987	—	—	—
Packer_TM_A1	6952 / 11381	—	—	—	7665 / 11675	—	—	—	7634 / 11643	—	—	—	8578 / 12395	—	—	—	8565 / 12382	—	—	—	7968 / 11693	—	—	—
Scraper_TMA1	6954 / 11383	—	—	—	7667 / 11677	—	—	—	7636 / 11646	—	—	—	8579 / 12396	—	—	—	8567 / 12384	—	—	—	7969 / 11695	—	—	—
Mill_intake_E	4864 / 4866	0	0	0	4988 / 4998	0	0	0	4956 / 4966	0	0	0	5993 / 6007	—	—	—	5982 / 5995	—	—	—	5492 / 5507	—	—	—
Mill_intake_N	4826 / 4846	0	0	0	4992 / 5088	0	0	0	4960 / 5057	0	0	0	6007 / 6145	—	—	—	5996 / 6134	—	—	—	5512 / 5667	—	—	—
Mill_BD10E	4864 / 4864	0	0	0	5003 / 5003	—	—	—	4971 / 4971	0	0	0	6013 / 6013	—	—	—	6002 / 6002	—	—	—	5515 / 5515	—	—	—
Mill_BD9E	4844 / 4845	0	0	0	5007 / 5008	—	—	—	4975 / 4977	0	0	0	6027 / 6030	—	—	—	6016 / 6019	—	—	—	5534 / 5537	—	—	—
Mill_BD27W	4906 / 4906	0	0	0	5079 / 5079	—	—	—	5047 / 5047	—	—	—	6096 / 6096	—	—	—	6085 / 6085	—	—	—	5599 / 5599	—	—	—
Mill_BD18W	4902 / 4902	0	0	0	5098 / 5098	—	—	—	5067 / 5067	—	—	—	6125 / 6125	—	—	—	6113 / 6113	—	—	—	5631 / 5631	—	—	—

The two numbers ###/### represent the minimum and maximum distances for the source to the Point of Reception

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR8a			POR9			POR9a			POR10			POR10a			POR11			POR11a									
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
BD2	5360	—	—	—	5223	—	—	—	5203	—	—	—	4622	0	0	0	4600	0	0	0	4240	0	0	0	4213	0	0	0
BD3	5640	—	—	—	5507	—	—	—	5486	—	—	—	4908	9	9	9	4886	8	8	8	4528	10	10	10	4501	9	9	9
BD4	5334	—	—	—	5197	—	—	—	5177	—	—	—	4596	0	0	0	4574	0	0	0	4214	0	0	0	4188	0	0	0
BD5	5614	—	—	—	5481	—	—	—	5461	—	—	—	4883	9	9	9	4861	8	8	8	4504	10	10	10	4477	9	9	9
UC	4845	0	0	0	4797	1	1	1	4772	0	0	0	4306	3	3	3	4279	0	0	0	4048	4	4	4	4019	0	0	0
DC1	4847	6	6	6	4801	7	7	7	4776	6	6	6	4312	9	9	9	4286	7	7	7	4057	10	10	10	4028	8	8	8
DC2	5125	—	—	—	5081	—	—	—	5055	—	—	—	4591	8	8	8	4564	6	6	6	4332	9	9	9	4303	7	7	7
E1	5713	—	—	—	5556	—	—	—	5537	—	—	—	4933	25	25	25	4913	24	24	24	4524	26	26	26	4499	25	25	25
E2	5166	—	—	—	5033	—	—	—	5013	—	—	—	4437	12	12	12	4415	11	11	11	4063	11	11	11	4036	11	11	11
E3	5193	—	—	—	5063	—	—	—	5042	—	—	—	4470	9	9	9	4447	9	9	9	4098	9	9	9	4071	9	9	9
E4	5659	—	—	—	5528	—	—	—	5507	—	—	—	4931	22	22	22	4909	21	21	21	4553	23	23	23	4526	22	22	22
E5	5125	—	—	—	5077	—	—	—	5052	—	—	—	4584	15	15	15	4557	14	14	14	4320	16	16	16	4291	15	15	15
E6	5700	—	—	—	5546	—	—	—	5527	—	—	—	4927	17	17	17	4906	16	16	16	4521	18	18	18	4496	17	17	17
E7	5807	—	—	—	5656	—	—	—	5637	—	—	—	5039	—	—	—	5018	—	—	—	4636	18	18	18	4611	17	17	17
E8	8036	—	—	—	7953	—	—	—	7930	—	—	—	7401	—	—	—	7377	—	—	—	7062	—	—	—	7035	—	—	—
E11	9106	—	—	—	8982	—	—	—	8961	—	—	—	8384	—	—	—	8362	—	—	—	7993	—	—	—	7967	—	—	—
E12	10708	—	—	—	10560	—	—	—	10541	—	—	—	9938	—	—	—	9918	—	—	—	9518	—	—	—	9494	—	—	—
E13	8750	—	—	—	8632	—	—	—	8611	—	—	—	8041	—	—	—	8019	—	—	—	7658	—	—	—	7632	—	—	—
E14	11355	—	—	—	11225	—	—	—	11205	—	—	—	10619	—	—	—	10598	—	—	—	10216	—	—	—	10191	—	—	—
E15	9598	—	—	—	9449	—	—	—	9430	—	—	—	8826	—	—	—	8806	—	—	—	8408	—	—	—	8383	—	—	—
E16	10362	—	—	—	10212	—	—	—	10193	—	—	—	9587	—	—	—	9567	—	—	—	9166	—	—	—	9142	—	—	—
E17	4589	3	—	—	4527	4	—	—	4502	3	—	—	4019	6	—	—	3992	5	—	—	3747	7	—	—	3718	6	—	—
E18	4548	3	—	—	4484	5	—	—	4460	4	—	—	3976	6	—	—	3949	5	—	—	3704	8	—	—	3674	6	—	—
EO_FEL	5878	—	—	—	5749	—	—	—	5729	—	—	—	5155	—	—	—	5132	—	—	—	4778	18	—	—	4751	17	—	—
EO_PC	5886	—	—	—	5761	—	—	—	5740	—	—	—	5171	—	—	—	5148	—	—	—	4799	19	—	—	4772	18	—	—
EO_SCNR	5897	—	—	—	5772	—	—	—	5751	—	—	—	5181	—	—	—	5158	—	—	—	4807	20	—	—	4781	19	—	—
EO_GENSET	5905	—	—	—	5780	—	—	—	5759	—	—	—	5188	—	—	—	5166	—	—	—	4815	24	—	—	4789	22	—	—
DD1	5313	—	—	—	5175	—	—	—	5155	—	—	—	4573	4	4	4	4551	4	4	4	4191	4	4	4	4164	3	3	3
DD2	5332	—	—	—	5191	—	—	—	5171	—	—	—	4587	4	4	4	4565	4	4	4	4201	4	4	4	4175	3	3	3
DD3	5307	—	—	—	5173	—	—	—	5152	—	—	—	4574	5	5	5	4552	4	4	4	4196	4	4	4	4170	4	4	4
DD4	5305	—	—	—	5169	—	—	—	5149	—	—	—	4569	4	4	4	4547	4	4	4	4189	4	4	4	4163	3	3	3
T1	5613	—	—	—	5606	—	—	—	5579	—	—	—	5165	—	—	—	5137	—	—	—	4949	18	18	18	4919	17	17	17
T2	5603	—	—	—	5596	—	—	—	5569	—	—	—	5155	—	—	—	5126	—	—	—	4938	18	18	18	4908	17	17	17
TD01	5784	—	—	—	5685	—	—	—	5663	—	—	—	5124	—	—	—	5100	—	—	—	4784	16	20	20	4756	14	19	19
TD02	5314	—	—	—	5196	—	—	—	5174	—	—	—	4615	5	5	5	4592	5	5	5	4258	15	15	15	4230	15	15	15
TD03	7504	—	—	—	7339	—	—	—	7321	—	—	—	6706	—	—	—	6687	—	—	—	6278	—	—	—	6254	—	—	—
TD04	4304	22	22	22	4227	25	25	25	4203	23	23	23	3702	27	27	27	3676	25	25	25	3418	28	28	28	3389	26	26	26
TD07D	5254	—	—	—	5119	—	—	—	5098	—	—	—	4519	2	—	—	4497	2	—	—	4141	2	—	—	4114	1	—	—
TD08D	5769	—	—	—	5623	—	—	—	5603	—	—	—	5011	—	—	—	4990	14	—	—	4615	16	—	—	4589	15	—	—
TD08N	3546	—	23	23	3534	—	24	24	3507	—	23	23	3113	—	26	26	3085	—	25	25	2950	—	27	27	2920	—	26	26
TD09	3770	12	12	12	3770	13	13	13	3743	12	12	12	3364	14	14	14	3335	13	13	13	3207	15	15	15	3177	14	14	14
TD11D	8064	—	—	—	7866	—	—	—	7850	—	—	—	7207	—	—	—	7191	—	—	—	6746	—	—	—	6725	—	—	—
TD11N	7617	—	—	—	7466	—	—	—	7447	—	—	—	6844	—	—	—	6824	—	—	—	6430	—	—	—	6405	—	—	—
TD12D	5591	—	—	—	5502	—	—	—	5479	—	—	—	4954	22	—	—	4929	20	—	—	4629	23	—	—	4601	21	—	—
TD15	5627	—	—	—	5477	—	—	—	5457	—	—	—	4861	9	9	9	4841	7	7	7	4461	10	10	10	4436	9	9	9
TD17	6060	—	—	—	5894	—	—	—	5876	—	—	—	5282	—	—	—	5242	—	—	—	4840	8	—	—	4815	6	—	—
TD18	8052	—	—	—	7972	—	—	—	7948	—	—	—	7423	—	—	—	7399	—	—	—	7088	—	—	—	7060	—	—	—
TD23	9538	—	—	—	9392	—	—	—	9373	—	—	—	8773	—	—	—	8753	—	—	—	8358	—	—	—	8333	—	—	—
TD24	10308	—	—	—	10157	—	—	—	10138	—	—	—	9532	—	—	—	9512	—	—	—	9110	—	—	—	9086	—	—	—
TD26	11342	—	—	—	11236	—	—	—	11214	—	—	—	10653	—	—	—	10631	—	—	—	10276	—	—	—	10250	—	—	—
TD27	11326	—	—	—	11215	—	—	—	11194	—	—	—	10628	—	—	—	10605	—	—	—	10245	—	—	—	10219	—	—	—
WD	5550	—	—	—	5392	—	—	—	5373	—	—	—	4770	18	18	18	4750	17	17	17	4362	19	19	19	4337	18	18	18
WL1	4740	18	18	18	4689	19	19	19	4664	18	18	18	4195	20	20	20	4168	20	20	20	3936	25	25	25	3907	22	22	22
WL2	4320	16	16	16	4230	18	18	18	4207	16	16	16	3689	19	19	19	3664	18	18	18	3386	20	20	20	3357	19	19	19
WL3	5987	—	—	—	5832	—	—	—	5813	—	—	—	5210	—	—	—	5190	—	—	—	4801	20	20	20	4776	20	20	20
WL4	8484	—	—	—	8373	—	—	—	8351	—	—	—	7789	—	—	—	7767	—	—	—	7415	—	—	—	7389	—	—	—
WL5	8860	—	—	—	8740	—	—	—	8719	—	—	—	8146	—	—	—	8124	—	—	—	7760	—	—	—	7734	—	—	—
WL6	8088																											

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR8a			POR9			POR9a			POR10			POR10a			POR11			POR11a									
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
TMA_WP2_P3	10594	—	—	—	10463	—	—	—	10442	—	—	—	9856	—	—	—	9834	—	—	—	9453	—	—	—	9428	—	—	—
TMA_WTP_Ex1	10809	—	—	—	10656	—	—	—	10637	—	—	—	10028	—	—	—	10009	—	—	—	9602	—	—	—	9579	—	—	—
TMA_WTP_Ex2	10807	—	—	—	10653	—	—	—	10634	—	—	—	10025	—	—	—	10005	—	—	—	9599	—	—	—	9575	—	—	—
TMA_Diesel Pump	11033	—	—	—	10878	—	—	—	10859	—	—	—	10248	—	—	—	10228	—	—	—	9819	—	—	—	9796	—	—	—
Asyl_chiller 1	5641	—	—	—	5612	—	—	—	5586	—	—	—	5140	—	—	—	5113	—	—	—	4893	0	0	0	4864	0	0	0
Asyl_chiller 2	5641	—	—	—	5612	—	—	—	5586	—	—	—	5140	—	—	—	5112	—	—	—	4893	0	0	0	4864	0	0	0
Asyl_MUA	5645	—	—	—	5617	—	—	—	5591	—	—	—	5145	—	—	—	5118	—	—	—	4899	0	0	0	4869	0	0	0
Asyl_DC1	5658	—	—	—	5629	—	—	—	5603	—	—	—	5158	—	—	—	5130	—	—	—	4911	2	2	2	4882	2	2	2
Asyl_DC2	5662	—	—	—	5633	—	—	—	5633	—	—	—	5161	—	—	—	5134	—	—	—	4914	3	3	3	4885	2	2	2
Mill_Exh1	5481	—	—	—	5461	—	—	—	5434	—	—	—	5003	—	—	—	4975	14	14	14	4771	15	15	15	4741	15	15	15
Mill_Exh2	5449	—	—	—	5427	—	—	—	5401	—	—	—	4967	15	15	15	4939	14	14	14	4733	16	16	16	4704	15	15	15
Mill_Exh3	5513	—	—	—	5496	—	—	—	5470	—	—	—	5042	—	—	—	5014	—	—	—	4814	0	0	0	4784	0	0	0
Mill_Exh4	5517	—	—	—	5500	—	—	—	5473	—	—	—	5046	—	—	—	5018	—	—	—	4818	0	0	0	4789	0	0	0
Mill_Exh5	5554	—	—	—	5540	—	—	—	5513	—	—	—	5088	—	—	—	5060	—	—	—	4862	0	0	0	4833	0	0	0
Mill_Exh6	5582	—	—	—	5568	—	—	—	5541	—	—	—	5116	—	—	—	5088	—	—	—	4890	0	0	0	4860	0	0	0
Mill_Exh7	5604	—	—	—	5588	—	—	—	5561	—	—	—	5133	—	—	—	5105	—	—	—	4904	10	10	10	4874	10	10	10
Mill_Exh8	5606	—	—	—	5589	—	—	—	5562	—	—	—	5134	—	—	—	5106	—	—	—	4904	10	10	10	4875	10	10	10
Loader	4671	17	17	17	4579	19	19	19	4566	18	18	18	4032	21	21	21	4007	20	20	20	3718	22	22	22	3689	21	21	21
WP19	11867	—	—	—	11716	—	—	—	11697	—	—	—	11090	—	—	—	11071	—	—	—	10666	—	—	—	10642	—	—	—
WP20	11420	—	—	—	11248	—	—	—	11230	—	—	—	10604	—	—	—	10586	—	—	—	10160	—	—	—	10137	—	—	—
WP21	10991	—	—	—	10808	—	—	—	10792	—	—	—	10158	—	—	—	10141	—	—	—	9705	—	—	—	9683	—	—	—
WP22	11519	—	—	—	11398	—	—	—	11377	—	—	—	10800	—	—	—	10779	—	—	—	10407	—	—	—	10381	—	—	—
WP23	11525	—	—	—	11424	—	—	—	11402	—	—	—	10847	—	—	—	10824	—	—	—	10475	—	—	—	10449	—	—	—
WP24	7912	—	—	—	7797	—	—	—	7776	—	—	—	7211	—	—	—	7188	—	—	—	6835	—	—	—	6809	—	—	—
WP25	6315	—	—	—	6311	—	—	—	6284	—	—	—	5869	—	—	—	5841	—	—	—	5645	—	—	—	5616	—	—	—
WP26	5831	—	—	—	5808	—	—	—	5782	—	—	—	5342	—	—	—	5315	—	—	—	5100	—	—	—	5071	—	—	—
WP27	5304	—	—	—	5249	—	—	—	5224	—	—	—	4743	0	0	0	4716	0	0	0	4465	0	0	0	4436	0	0	0
WP28	8821	—	—	—	8673	—	—	—	8654	—	—	—	8053	—	—	—	8033	—	—	—	7638	—	—	—	7613	—	—	—
TD_WRMS	7622	—	—	—	7466	—	—	—	7447	—	—	—	6840	—	—	—	6820	—	—	—	6421	—	—	—	6396	—	—	—
CP_JC	8170	—	—	—	8048	—	—	—	8027	—	—	—	7453	—	—	—	7431	—	—	—	7068	—	—	—	7042	—	—	—
CP_S	8156	—	—	—	8034	—	—	—	8013	—	—	—	7439	—	—	—	7417	—	—	—	7053	—	—	—	7027	—	—	—
CP_Gen	8166	—	—	—	8043	—	—	—	8022	—	—	—	7447	—	—	—	7425	—	—	—	7060	—	—	—	7034	—	—	—
CP_loader	8188	—	—	—	8066	—	—	—	8045	—	—	—	7471	—	—	—	7449	—	—	—	7086	—	—	—	7060	—	—	—
Intake	4363	0	0	0	4331	0	0	0	4305	0	0	0	3868	0	0	0	3840	0	0	0	3645	0	0	0	3616	0	0	0
Mat_drop	4850	12	12	12	4801	14	14	14	4776	13	13	13	4309	16	16	16	4282	14	14	14	4051	17	17	17	4021	16	16	16
WP29	10727	—	—	—	10658	—	—	—	10634	—	—	—	10116	—	—	—	10092	—	—	—	9782	—	—	—	9754	—	—	—
WP30	10734	—	—	—	10680	—	—	—	10655	—	—	—	10156	—	—	—	10131	—	—	—	9839	—	—	—	9811	—	—	—
WP31	10171	—	—	—	10118	—	—	—	10094	—	—	—	9598	—	—	—	9573	—	—	—	9286	—	—	—	9257	—	—	—
WP32	8882	—	—	—	8829	—	—	—	8804	—	—	—	8311	—	—	—	8285	—	—	—	8003	—	—	—	7974	—	—	—
WP33	8456	—	—	—	8412	—	—	—	8386	—	—	—	7905	—	—	—	7879	—	—	—	7610	—	—	—	7582	—	—	—
WP34	8145	—	—	—	8103	—	—	—	8078	—	—	—	7600	—	—	—	7574	—	—	—	7310	—	—	—	7281	—	—	—
WP35	7708	—	—	—	7626	—	—	—	7602	—	—	—	7075	—	—	—	7051	—	—	—	6738	—	—	—	6710	—	—	—
WP36	9317	—	—	—	9162	—	—	—	9143	—	—	—	8534	—	—	—	8515	—	—	—	8110	—	—	—	8086	—	—	—
WP37	8026	—	—	—	7905	—	—	—	7884	—	—	—	7311	—	—	—	7289	—	—	—	6928	—	—	—	6902	—	—	—
WP38	9013	—	—	—	8876	—	—	—	8856	—	—	—	8265	—	—	—	8244	—	—	—	7861	—	—	—	7836	—	—	—
WP39	7207	—	—	—	7068	—	—	—	7048	—	—	—	6458	—	—	—	6437	—	—	—	6059	—	—	—	6034	—	—	—
WP40	6861	—	—	—	6647	—	—	—	6633	—	—	—	5980	—	—	—	5965	—	—	—	5509	—	—	—	5488	—	—	—
WP41	3724	0	0	0	3569	0	0	0	3550	0	0	0	2961	2	2	2	2939	0	0	0	2586	4	4	4	2559	2	2	2
MGR_NPA_G	5058 / 7640	—	—	—	4908 / 7481	0	0	0	4888 / 7463	0	0	0	4295 / 6853	0	0	0	4273 / 6833	0	0	0	3900 / 6431	0	0	0	3875 / 6407	0	0	0
MGR_OB	5057 / 7193	—	—	—	4907 / 7051	0	0	0	4887 / 7031	0	0	0	4293 / 6439	0	0	0	4272 / 6418	0	0	0	3899 / 6036	0	0	0	3873 / 6011	0	0	0
MGR_OPMil	4717 / 5640	0	0	0	4615 / 5499	0	0	0	4592 / 5479	0	0	0	4035 / 4893	2	2	2	4012 / 4871	1	1	1	3677 / 4503	3	3	3	3650 / 4477	2	2	2
MGR_PAG	3887 / 5448	1	1	1	3911 / 5296	3	3	3	3882 / 5277	2	2	2	3537 / 4680	5	5	5	3508 / 4659	4	4	4	3409 / 4279	6	6	6	3380 / 4253	5	5	5
MGR_SP	3593 / 5449	2	2	2	3585 / 5296	3	3	3	3558 / 5277	2	2	2	3170 / 4680	6	6	6	3142 / 4659	4	4	4	3011 / 4279	6	6	6	2981 / 4254	5	5	5
TRE_OP_N_PAG	5055 / 7640	—	—	—	4907 / 7481	0	0	0	4887 / 7463	0	0	0	4294 / 6853	0	0	0	4273 / 6833	0	0	0	3899 / 6431	0	0	0	3873 / 6407	0	0	0
TRE_OP_O_B	5057 / 7193	—	—	—	4907 / 7051	0	0	0	4887 / 7031	0	0	0	4293 / 6439	0	0	0	4272 / 6418	0	0	0	3899 / 6036	0	0	0	3873 / 6011	0	0	0
TRE_OP_Mi_II	4665 / 5638	0	0	0	4572 / 5497	0	0	0	4549 / 5477	0	0	0	4025 / 4890	0	0	0	4000 / 4869	0	0	0								

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR8a			POR9			POR9a			POR10			POR10a			POR11			POR11a									
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
TRL_OP_TMA	5057 / 8157	—	—	—	4906 / 8038	0	0	0	4887 / 8017	0	0	0	4293 / 7446	0	0	0	4272 / 7424	0	0	0	3899 / 7065	0	0	0	3873 / 7039	0	0	0
WTR_NPA_G	5056 / 7640	—	—	—	4906 / 7481	0	0	0	4886 / 7463	0	0	0	4293 / 6853	0	0	0	4271 / 6833	0	0	0	3898 / 6431	0	0	0	3872 / 6407	0	0	0
WTR_OB	5057 / 7193	—	—	—	4907 / 7051	0	0	0	4888 / 7031	0	0	0	4294 / 6439	0	0	0	4273 / 6418	0	0	0	3900 / 6036	0	0	0	3874 / 6011	0	0	0
WTR_OPMI_I	4717 / 5641	0	0	0	4614 / 5501	0	0	0	4592 / 5480	0	0	0	4035 / 4894	1	1	1	4012 / 4873	0	0	0	3674 / 4505	2	2	2	3646 / 4479	1	1	1
WTR_PAG	3886 / 5448	0	0	0	3909 / 5296	2	2	2	3881 / 5277	0	0	0	3536 / 4680	4	4	4	3507 / 4659	2	2	2	3408 / 4279	4	4	4	3379 / 4253	3	3	3
WTR_SP	3594 / 5449	0	0	0	3586 / 5296	2	2	2	3559 / 5277	0	0	0	3171 / 4680	4	4	4	3142 / 4659	2	2	2	3011 / 4279	4	4	4	2981 / 4254	3	3	3
TRE_TMA1	7946 / 11675	—	—	—	7856 / 11536	—	—	—	7833 / 11517	—	—	—	7297 / 10921	—	—	—	7273 / 10901	—	—	—	6951 / 10509	—	—	—	6923 / 10484	—	—	—
TRL_TMA1	7973 / 11674	—	—	—	7884 / 11533	—	—	—	7861 / 11513	—	—	—	7323 / 10918	—	—	—	7300 / 10897	—	—	—	6972 / 10506	—	—	—	6945 / 10481	—	—	—
TRL_TMA_2_023	8102 / 11449	—	—	—	8041 / 11349	—	—	—	8016 / 11327	—	—	—	7515 / 10772	—	—	—	7490 / 10749	—	—	—	7203 / 10400	—	—	—	7174 / 10374	—	—	—
TRE_TMA_2023	8103 / 11451	—	—	—	8042 / 11350	—	—	—	8018 / 11328	—	—	—	7517 / 10773	—	—	—	7492 / 10750	—	—	—	7204 / 10402	—	—	—	7176 / 10375	—	—	—
MGR2_NPA_G	7379 / 7979	—	—	—	7216 / 7813	—	—	—	7198 / 7795	—	—	—	6584 / 7177	—	—	—	6565 / 7158	—	—	—	6159 / 6746	—	—	—	6135 / 6722	—	—	—
TRE_OP2_NPAG	7379 / 7979	—	—	—	7216 / 7813	—	—	—	7198 / 7795	—	—	—	6584 / 7177	—	—	—	6565 / 7158	—	—	—	6159 / 6746	—	—	—	6135 / 6722	—	—	—
TRL_OP2_NPAG	7379 / 7979	—	—	—	7216 / 7813	—	—	—	7198 / 7795	—	—	—	6584 / 7177	—	—	—	6565 / 7158	—	—	—	6159 / 6746	—	—	—	6135 / 6722	—	—	—
WTR2_NPA_G	7379 / 7979	—	—	—	7216 / 7813	—	—	—	7198 / 7795	—	—	—	6584 / 7177	—	—	—	6565 / 7158	—	—	—	6159 / 6746	—	—	—	6135 / 6722	—	—	—
WTR3_NPA_G	6558 / 7265	—	—	—	6370 / 7067	—	—	—	6354 / 7052	—	—	—	5720 / 6410	—	—	—	5703 / 6393	—	—	—	5273 / 5951	—	—	—	5251 / 5930	—	—	—
MGR3_NPA_G	6558 / 7265	—	—	—	6370 / 7067	—	—	—	6354 / 7052	—	—	—	5720 / 6410	—	—	—	5703 / 6393	—	—	—	5273 / 5951	—	—	—	5251 / 5930	—	—	—
TRE_OP3_NPAG	6558 / 7265	—	—	—	6370 / 7067	—	—	—	6354 / 7052	—	—	—	5720 / 6410	—	—	—	5703 / 6393	—	—	—	5273 / 5951	—	—	—	5251 / 5930	—	—	—
TRL_OP3_NPAG	6558 / 7265	—	—	—	6370 / 7067	—	—	—	6354 / 7052	—	—	—	5720 / 6410	—	—	—	5703 / 6393	—	—	—	5273 / 5951	—	—	—	5251 / 5930	—	—	—
TRL_OP4_NPAG	6606 / 7969	—	—	—	6452 / 7766	—	—	—	6433 / 7751	—	—	—	5830 / 7103	—	—	—	5810 / 7087	—	—	—	5418 / 6637	—	—	—	5393 / 6616	—	—	—
MGR4_NPA_G	6606 / 7969	—	—	—	6452 / 7766	—	—	—	6433 / 7751	—	—	—	5830 / 7103	—	—	—	5810 / 7087	—	—	—	5418 / 6637	—	—	—	5393 / 6616	—	—	—
TRE_OP4_NPAG	6606 / 7969	—	—	—	6452 / 7766	—	—	—	6433 / 7751	—	—	—	5830 / 7103	—	—	—	5810 / 7087	—	—	—	5418 / 6637	—	—	—	5393 / 6616	—	—	—
WTR4_NPA_G	6606 / 7969	—	—	—	6452 / 7766	—	—	—	6433 / 7751	—	—	—	5830 / 7103	—	—	—	5810 / 7087	—	—	—	5418 / 6637	—	—	—	5393 / 6616	—	—	—
Packer_TM_A1	7944 / 11672	—	—	—	7854 / 11530	—	—	—	7831 / 11510	—	—	—	7295 / 10915	—	—	—	7271 / 10894	—	—	—	6949 / 10502	—	—	—	6922 / 10478	—	—	—
Scraper_TMA1	7946 / 11674	—	—	—	7856 / 11532	—	—	—	7833 / 11512	—	—	—	7297 / 10917	—	—	—	7273 / 10896	—	—	—	6951 / 10504	—	—	—	6923 / 10480	—	—	—
Mill_intake_E	5466 / 5481	—	—	—	5445 / 5461	—	—	—	5419 / 5435	—	—	—	4986 / 5003	0	0	0	4958 / 4975	0	0	0	4754 / 4771	0	0	0	4724 / 4741	0	0	0
Mill_intake_N	5485 / 5640	—	—	—	5467 / 5630	—	—	—	5440 / 5603	—	—	—	5011 / 5184	—	—	—	4983 / 5156	0	0	0	4782 / 4962	0	0	0	4752 / 4933	0	0	0
Mill_BD10E	5488 / 5488	—	—	—	5469 / 5469	—	—	—	5442 / 5442	—	—	—	5011 / 5011	—	—	—	4983 / 4983	0	0	0	4780 / 4780	0	0	0	4750 / 4750	0	0	0
Mill_BD9E	5507 / 5510	—	—	—	5490 / 5493	—	—	—	5464 / 5467	—	—	—	5035 / 5039	—	—	—	5008 / 5011	—	—	—	4807 / 4811	0	0	0	4777 / 4781	0	0	0
Mill_BD27W	5572 / 5572	—	—	—	5553 / 5553	—	—	—	5526 / 5526	—	—	—	5094 / 5094	—	—	—	5067 / 5067	—	—	—	4861 / 4861	0	0	0	4832 / 4832	0	0	0
Mill_BD18W	5604 / 5604	—	—	—	5587 / 5587	—	—	—	5560 / 5560	—	—	—	5130 / 5130	—	—	—	5103 / 5103	0	0	0	4899 / 4899	0	0	0	4870 / 4870	0	0	0

The two numbers ###/### represent the minimum and maximum distances for the source to the Point of Reception

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR12			POR12a			POR14			POR14a			POR15			POR15a			POR16			POR16a										
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
BD2	3716	0	0	0	3687	0	0	0	3252	0	0	0	3232	0	0	0	6004	—	—	—	6009	—	—	—	5996	—	—	—	6009	—	—	—
BD3	4004	12	12	12	3974	11	11	11	3537	14	14	14	3517	14	14	14	5790	—	—	—	5794	—	—	—	5778	—	—	—	5790	—	—	—
BD4	3691	0	0	0	3661	0	0	0	3228	0	0	0	3208	0	0	0	6027	—	—	—	6031	—	—	—	6019	—	—	—	6032	—	—	—
BD5	3980	12	12	12	3951	12	12	12	3515	14	14	14	3495	13	13	13	5817	—	—	—	5821	—	—	—	5805	—	—	—	5818	—	—	—
UC	3576	5	5	5	3545	2	2	2	3353	6	6	6	3326	2	2	2	7143	—	—	—	7145	—	—	—	7121	—	—	—	7132	—	—	—
DC1	3586	12	12	12	3555	10	10	10	3366	12	12	12	3340	11	11	11	7158	—	—	—	7159	—	—	—	7135	—	—	—	7146	—	—	—
DC2	3858	10	10	10	3826	9	9	9	3620	11	11	11	3595	10	10	10	6995	—	—	—	6996	—	—	—	6969	—	—	—	6978	—	—	—
E1	3996	26	26	26	3968	26	26	26	3474	26	26	26	3457	25	25	25	5554	—	—	—	5559	—	—	—	5550	—	—	—	5563	—	—	—
E2	3541	11	11	11	3511	11	11	11	3097	16	16	16	3076	12	12	12	6203	—	—	—	6208	—	—	—	6196	—	—	—	6209	—	—	—
E3	3577	9	9	9	3547	9	9	9	3137	10	10	10	3116	10	10	10	6196	—	—	—	6201	—	—	—	6188	—	—	—	6201	—	—	—
E4	4029	25	25	25	4000	24	24	24	3566	27	27	27	3546	26	26	26	5790	—	—	—	5793	—	—	—	5777	—	—	—	5789	—	—	—
E5	3844	18	18	18	3812	17	17	17	3599	19	19	19	3574	18	18	18	6964	—	—	—	6964	—	—	—	6938	—	—	—	6947	—	—	—
E6	3994	20	20	20	3965	19	19	19	3479	22	22	22	3462	21	21	21	5588	—	—	—	5593	—	—	—	5582	—	—	—	5596	—	—	—
E7	4109	20	20	20	4080	18	18	18	3598	22	22	22	3580	20	20	20	5513	—	—	—	5517	—	—	—	5505	—	—	—	5518	—	—	—
E8	6547	—	—	—	6517	—	—	—	6122	—	—	—	6101	—	—	—	4896	3	3	3	4886	2	2	2	4824	4	4	4	4823	2	2	2
E11	7466	—	—	—	7437	—	—	—	6948	—	—	—	6932	—	—	—	3593	8	8	8	3579	7	7	7	3506	8	8	8	3501	7	7	7
E12	8990	—	—	—	8962	—	—	—	8421	—	—	—	8407	—	—	—	2622	17	17	17	2599	14	14	14	2496	18	18	18	2479	15	15	15
E13	7133	—	—	—	7104	—	—	—	6631	—	—	—	6613	—	—	—	3882	11	11	11	3871	8	8	8	3803	11	11	11	3800	8	8	8
E14	9688	—	—	—	9660	—	—	—	9145	—	—	—	9130	—	—	—	3271	10	10	10	3244	8	8	8	3136	10	10	10	3115	9	9	9
E15	7880	—	—	—	7852	—	—	—	7316	—	—	—	7301	—	—	—	2804	11	11	11	2789	10	10	10	2711	12	12	12	2705	11	11	11
E16	8638	—	—	—	8610	—	—	—	8067	—	—	—	8053	—	—	—	2569	18	18	18	2548	14	14	14	2452	18	18	18	2438	15	15	15
E17	3269	10	—	—	3238	8	—	—	3034	10	—	—	3008	9	—	—	7193	—	—	—	7196	—	—	—	7177	—	—	—	7189	—	—	—
E18	3226	10	—	—	3194	8	—	—	2992	11	—	—	2966	10	—	—	7214	—	—	—	7217	—	—	—	7199	—	—	—	7211	—	—	—
EO_FEL	4254	20	—	—	4225	19	—	—	3789	22	—	—	3770	21	—	—	5633	—	—	—	5635	—	—	—	5616	—	—	—	5627	—	—	—
EO_PC	4276	20	—	—	4247	20	—	—	3800	22	—	—	3800	21	—	—	5663	—	—	—	5665	—	—	—	5644	—	—	—	5655	—	—	—
EO_SCNR	4285	22	—	—	4255	21	—	—	3826	24	—	—	3806	22	—	—	5646	—	—	—	5648	—	—	—	5627	—	—	—	5638	—	—	—
EO_GENSET	4293	26	—	—	4263	24	—	—	3834	28	—	—	3814	26	—	—	5642	—	—	—	5644	—	—	—	5623	—	—	—	5634	—	—	—
DD1	3667	3	3	3	3637	3	3	3	3203	4	4	4	3183	4	4	4	6039	—	—	—	6043	—	—	—	6031	—	—	—	6045	—	—	—
DD2	3676	3	3	3	3647	3	3	3	3206	4	4	4	3187	4	4	4	6007	—	—	—	6011	—	—	—	6000	—	—	—	6013	—	—	—
DD3	3673	3	3	3	3643	3	3	3	3217	4	4	4	3197	4	4	4	6068	—	—	—	6072	—	—	—	6060	—	—	—	6073	—	—	—
DD4	3666	3	3	3	3636	3	3	3	3206	4	4	4	3186	4	4	4	6058	—	—	—	6063	—	—	—	6050	—	—	—	6064	—	—	—
T1	4497	20	20	20	4466	18	18	18	4313	18	18	18	4286	17	17	17	7173	—	—	—	7171	—	—	—	7133	—	—	—	7140	—	—	—
T2	4486	20	20	20	4454	18	18	18	4301	18	18	18	4274	17	17	17	7171	—	—	—	7169	—	—	—	7138	—	—	—	7138	—	—	—
TD01	4272	17	22	22	4241	16	21	21	3876	19	24	24	3854	18	22	22	5991	—	—	—	5992	—	—	—	5967	—	—	—	5976	—	—	—
TD02	3740	15	15	15	3710	14	14	14	3323	22	22	22	3301	12	12	12	6186	—	—	—	6190	—	—	—	6174	—	—	—	6186	—	—	—
TD03	5750	—	—	—	5723	—	—	—	5179	—	—	—	5164	—	—	—	3910	26	26	26	3911	24	24	24	3885	26	26	26	3895	24	24	24
TD04	2934	31	31	31	2903	28	28	28	2692	32	32	32	2666	30	30	30	7292	—	—	—	7297	—	—	—	7283	—	—	—	7296	—	—	—
TD07D	3618	1	—	—	3588	1	—	—	3163	2	—	—	3142	1	—	—	6108	—	—	—	6112	—	—	—	6101	—	—	—	6114	—	—	—
TD08D	4088	18	—	—	4060	17	—	—	3589	20	—	—	3571	18	—	—	5584	—	—	—	5588	—	—	—	5575	—	—	—	5587	—	—	—
TD08N	2553	—	33	33	2522	—	30	30	2566	—	32	32	2537	—	30	30	8283	—	—	—	8287	—	—	—	8274	—	—	—	8286	—	—	—
TD09	2811	17	17	17	2781	16	16	16	2813	17	17	17	2784	16	16	16	8228	—	—	—	8231	—	—	—	8214	—	—	—	8226	—	—	—
TD11D	6225	—	—	—	6200	—	—	—	5595	—	—	—	5585	—	—	—	3089	33	—	—	3093	28	—	—	3082	33	—	—	3095	29	—	—
TD11N	5902	—	—	—	5874	—	—	—	5353	—	—	—	5338	—	—	—	3985	—	23	23	3983	—	19	19	3949	—	23	23	3957	—	19	19
TD12D	4122	25	—	—	4091	23	—	—	3757	26	—	—	3734	25	—	—	6232	—	—	—	6233	—	—	—	6208	—	—	—	6218	—	—	—
TD15	3934	12	12	12	3905	11	11	11	3430	14	14	14	3412	13	13	13	5678	—	—	—	5683	—	—	—	5672	—	—	—	5685	—	—	—
TD17	4311	10	—	—	4284	8	—	—	3761	12	—	—	3745	11	—	—	5176	—	—	—	5181	—	—	—	5172	—	—	—	5185	—	—	—
TD18	6574	—	—	—	6543	—	—	—	6153	—	—	—	6132	—	—	—	4944	8	8	8	4934	7	7	7	4871	9	9	9	4870	7	7	7
TD23	7829	—	—	—	7802	—	—	—	7271	—	—	—	7256	—	—	—	2907	16	16	16	2892	15	15	15	2814	17	17	17	2808	16	16	16
TD24	8582	—	—	—	8555	—	—	—	8011	—	—	—	7997	—	—	—	2556	19	19	19	2535	18	18	18	2440	24	24	24	2427	21	21	21
TD26	9751	—	—	—	9722	—	—	—	9247	—	—	—	9229	—	—	—	3990	12	12													

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR12				POR12a				POR14				POR14a				POR15				POR15a				POR16				POR16a			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
TMA_WP2_P3	8925	—	—	—	8897	—	—	—	8384	—	—	—	8369	—	—	—	3127	0	0	0	3104	0	0	0	3003	0	0	0	2987	0	0	0
TMA_WTP_Ex1	9074	—	—	—	9047	—	—	—	8496	—	—	—	8483	—	—	—	2444	0	0	0	2420	0	0	0	2316	0	0	0	2298	0	0	0
TMA_WTP_Ex2	9071	—	—	—	9044	—	—	—	8492	—	—	—	8478	—	—	—	2426	0	0	0	2402	0	0	0	2298	0	0	0	2280	0	0	0
TMA_Diesel Pump	9292	—	—	—	9265	—	—	—	8709	—	—	—	8696	—	—	—	2390	5	5	5	2364	4	4	4	2258	6	6	6	2237	5	5	5
Asyl_chiller 1	4424	0	0	0	4392	0	0	0	4189	0	0	0	4164	0	0	0	6878	—	—	—	6877	—	—	—	6841	—	—	—	6848	—	—	—
Asyl_chiller 2	4423	0	0	0	4392	0	0	0	4189	0	0	0	4163	0	0	0	6879	—	—	—	6877	—	—	—	6842	—	—	—	6849	—	—	—
Asyl_MUA	4429	0	0	0	4398	0	0	0	4195	0	0	0	4169	0	0	0	6880	—	—	—	6878	—	—	—	6842	—	—	—	6849	—	—	—
Asyl_DC1	4442	3	3	3	4410	3	3	3	4207	4	4	4	4182	3	3	3	6874	—	—	—	6873	—	—	—	6837	—	—	—	6844	—	—	—
Asyl_DC2	4444	4	4	4	4413	3	3	3	4209	4	4	4	4183	4	4	4	6868	—	—	—	6867	—	—	—	6831	—	—	—	6838	—	—	—
Mill_Exh1	4310	18	18	18	4279	17	17	17	4105	18	18	18	4079	17	17	17	7072	—	—	—	7070	—	—	—	7036	—	—	—	7043	—	—	—
Mill_Exh2	4272	18	18	18	4240	17	17	17	4065	18	18	18	4038	17	17	17	7067	—	—	—	7066	—	—	—	7032	—	—	—	7039	—	—	—
Mill_Exh3	4355	2	2	2	4324	1	1	1	4155	3	3	3	4129	2	2	2	7094	—	—	—	7092	—	—	—	7057	—	—	—	7064	—	—	—
Mill_Exh4	4360	2	2	2	4328	1	1	1	4160	3	3	3	4133	2	2	2	7094	—	—	—	7093	—	—	—	7057	—	—	—	7064	—	—	—
Mill_Exh5	4405	0	0	0	4373	0	0	0	4207	0	0	0	4180	0	0	0	7101	—	—	—	7099	—	—	—	7063	—	—	—	7070	—	—	—
Mill_Exh6	4432	0	0	0	4400	0	0	0	4232	0	0	0	4206	0	0	0	7087	—	—	—	7085	—	—	—	7048	—	—	—	7055	—	—	—
Mill_Exh7	4444	11	11	11	4412	10	10	10	4239	11	11	11	4212	10	10	10	7050	—	—	—	7048	—	—	—	7012	—	—	—	7019	—	—	—
Mill_Exh8	4445	11	11	11	4413	11	11	11	4239	12	12	12	4213	11	11	11	7049	—	—	—	7046	—	—	—	7010	—	—	—	7017	—	—	—
Loader	3218	24	24	24	3187	24	24	24	2903	26	26	26	2879	25	25	25	6897	—	—	—	6901	—	—	—	6886	—	—	—	6898	—	—	—
WP19	10138	—	—	—	10111	—	—	—	9560	—	—	—	9546	—	—	—	2793	9	9	9	2764	3	3	3	2655	10	10	10	2630	4	4	4
WP20	9634	—	—	—	9609	—	—	—	9026	—	—	—	9014	—	—	—	1937	8	8	8	1909	7	7	7	1799	9	9	9	1775	8	8	8
WP21	9182	—	—	—	9156	—	—	—	8561	—	—	—	8550	—	—	—	1535	15	15	15	1509	14	14	14	1402	16	16	16	1382	15	15	15
WP22	9880	—	—	—	9851	—	—	—	9351	—	—	—	9335	—	—	—	3601	0	0	0	3574	0	0	0	3465	0	0	0	3443	0	0	0
WP23	9951	—	—	—	9922	—	—	—	9455	—	—	—	9438	—	—	—	4212	0	0	0	4186	0	0	0	4078	0	0	0	4057	0	0	0
WP24	6311	—	—	—	6282	—	—	—	5826	—	—	—	5808	—	—	—	4359	0	0	0	4352	0	0	0	4299	0	0	0	4301	0	0	0
WP25	5186	—	—	—	5155	—	—	—	4973	0	0	0	4947	0	0	0	6919	—	—	—	6914	—	—	—	6867	—	—	—	6871	—	—	—
WP26	4633	0	0	0	4601	0	0	0	4401	0	0	0	4375	0	0	0	6855	—	—	—	6852	—	—	—	6814	—	—	—	6820	—	—	—
WP27	3981	0	0	0	3949	0	0	0	3706	0	0	0	3681	0	0	0	6766	—	—	—	6766	—	—	—	6738	—	—	—	6748	—	—	—
WP28	7109	—	—	—	7082	—	—	—	6563	—	—	—	6538	—	—	—	3210	1	1	1	3201	0	0	0	3142	1	1	1	3142	0	0	0
TD_WRMS	5892	—	—	—	5865	—	—	—	5335	—	—	—	5320	—	—	—	3921	22	22	22	3920	19	19	19	3888	22	22	22	3896	19	19	19
CP_JC	6542	—	—	—	6513	—	—	—	6039	—	—	—	6022	—	—	—	4081	22	22	22	4073	19	19	19	4017	22	22	22	4019	19	19	19
CP_S	6527	—	—	—	6498	—	—	—	6024	—	—	—	6006	—	—	—	4079	19	19	19	4071	16	16	16	4016	20	20	20	4018	16	16	16
CP_Gen	6534	—	—	—	6506	—	—	—	6030	—	—	—	6012	—	—	—	4060	21	21	21	4053	17	17	17	3998	21	21	21	3999	17	17	17
CP_loader	6561	—	—	—	6532	—	—	—	6058	—	—	—	6041	—	—	—	4075	8	8	8	4067	7	7	7	4011	9	9	9	4012	7	7	7
Intake	3197	0	0	0	3166	0	0	0	3055	0	0	0	3028	0	0	0	7602	—	—	—	7604	—	—	—	7584	—	—	—	7595	—	—	—
Mat_drop	3578	19	19	19	3547	18	18	18	3352	20	20	20	3326	19	19	19	7134	—	—	—	7135	—	—	—	7112	—	—	—	7122	—	—	—
WP29	9267	—	—	—	9237	—	—	—	8832	—	—	—	8812	—	—	—	4922	0	0	0	4899	0	0	0	4798	0	0	0	4782	0	0	0
WP30	9330	—	—	—	9299	—	—	—	8922	—	—	—	8901	—	—	—	5346	—	—	—	5323	—	—	—	5223	—	—	—	5206	—	—	—
WP31	8779	—	—	—	8748	—	—	—	8381	—	—	—	8359	—	—	—	5311	—	—	—	5290	—	—	—	5195	—	—	—	5182	—	—	—
WP32	7498	—	—	—	7467	—	—	—	7116	—	—	—	7094	—	—	—	5305	—	—	—	5290	—	—	—	5211	—	—	—	5205	—	—	—
WP33	7112	—	—	—	7080	—	—	—	6753	—	—	—	6731	—	—	—	5569	—	—	—	5555	—	—	—	5482	—	—	—	5478	—	—	—
WP34	6814	—	—	—	6782	—	—	—	6466	—	—	—	6443	—	—	—	5680	—	—	—	5668	—	—	—	5599	—	—	—	5596	—	—	—
WP35	6224	—	—	—	6194	—	—	—	5805	—	—	—	5784	—	—	—	5040	—	—	—	5031	—	—	—	4975	0	0	0	4976	0	0	0
WP36	7582	—	—	—	7555	—	—	—	7011	—	—	—	6997	—	—	—	2787	3	3	3	2775	1	1	1	2707	3	3	3	2704	2	2	2
WP37	6402	—	—	—	6373	—	—	—	5903	—	—	—	5885	—	—	—	4178	0	0	0	4171	0	0	0	4118	0	0	0	4120	0	0	0
WP38	7333	—	—	—	7305	—	—	—	6794	—	—	—	6778	—	—	—	3345	0	0	0	3333	0	0	0	3265	0	0	0	3263	0	0	0
WP39	5532	—	—	—	5504	—	—	—	5012	—	—	—	4995	0	0	0	4461	0	0	0	4460	0	0	0	4427	0	0	0	4435	0	0	0
WP40	4992	0	0	0	4968	0	0	0	4347	0	0	0	4338	0	0	0	4191	0	0	0	4201	0	0	0	4207	0	0	0	4224	0	0	0
WP41	2067	7	7	7	2037	6	6	6	1694	9	9	9	1670	8	8	8	7416	—	—	—	7425	—	—	—	7426	—	—	—	7443	—	—	—
MGR_NPA G	3374 / 5903	0	0	0	3345 / 5876	0	0	0	2894 / 5341	5	5	5	2875 / 5326	2	2	2	3874 / 6205	3	3	3	3873 / 6211	0	0	0	3842 / 6203	3	3	3	3850 / 6218	0	0	0
MGR_OB	3373 / 5509	1	1	1	3344 / 5480	0	0	0	2893 / 4985	6	6	6	2874 / 4967	3	3	3	4432 / 6207	0	0	0	4432 / 6212	0</										

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR12			POR12a			POR14			POR14a			POR15			POR15a			POR16			POR16a										
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
TRL_OP_TMA	3373 / 6540	0	0	0	3344 / 6511	0	0	0	2893 / 6043	2	2	2	2873 / 6025	0	0	0	4149 / 6208	0	0	0	4141 / 6214	0	0	0	4085 / 6207	0	0	0	4086 / 6221	0	0	0
WTR_NPA_G	3372 / 5903	1	1	1	3343 / 5876	0	0	0	2891 / 5341	4	4	4	2872 / 5326	2	2	2	3874 / 6206	2	2	2	3873 / 6212	0	0	0	3842 / 6205	2	2	2	3850 / 6219	0	0	0
WTR_OB	3374 / 5509	0	0	0	3345 / 5480	0	0	0	2893 / 4985	4	4	4	2874 / 4967	1	1	1	4432 / 6208	0	0	0	4432 / 6214	0	0	0	4400 / 6207	0	0	0	4409 / 6221	0	0	0
WTR_OPMI_I	3155 / 3979	3	3	3	3125 / 3950	2	2	2	2744 / 3495	5	5	5	2722 / 3476	3	3	3	5732 / 7116	—	—	—	5736 / 7118	—	—	—	5722 / 7095	—	—	—	5735 / 7106	—	—	—
WTR_PAG	2983 / 3752	6	6	6	2952 / 3723	5	5	5	2757 / 3250	9	9	9	2735 / 3232	7	7	7	5827 / 8349	—	—	—	5832 / 8351	—	—	—	5823 / 8331	—	—	—	5837 / 8342	—	—	—
WTR_SP	2616 / 3752	7	7	7	2586 / 3723	6	6	6	2629 / 3251	8	8	8	2601 / 3232	6	6	6	5827 / 8280	—	—	—	5832 / 8284	—	—	—	5823 / 8270	—	—	—	5837 / 8282	—	—	—
TRE_TMA1	6434 / 9980	—	—	—	6404 / 9953	—	—	—	5994 / 9422	—	—	—	5975 / 9407	—	—	—	2351 / 5310	15	15	15	2335 / 5299	12	12	12	2253 / 5233	16	16	16	2245 / 5231	13	13	13
TRL_TMA1	6453 / 9977	—	—	—	6423 / 9949	—	—	—	5996 / 9419	—	—	—	5978 / 9404	—	—	—	2350 / 5308	16	16	16	2334 / 5297	14	14	14	2252 / 5231	17	17	17	2244 / 5228	14	14	14
TRL_TMA_2_023	6697 / 9876	—	—	—	6666 / 9847	—	—	—	6314 / 9381	—	—	—	6292 / 9363	—	—	—	4042 / 5634	2	2	2	4015 / 5622	0	0	0	3908 / 5552	3	3	3	3887 / 5549	1	1	1
TRE_TMA_2023	6699 / 9877	—	—	—	6668 / 9848	—	—	—	6316 / 9382	—	—	—	6294 / 9365	—	—	—	4043 / 5635	0	0	0	4017 / 5623	0	0	0	3910 / 5553	2	2	2	3889 / 5550	0	0	0
MGR2_NPA_G	5630 / 6218	—	—	—	5603 / 6192	—	—	—	5064 / 5639	—	—	—	5049 / 5625	—	—	—	3438 / 4307	9	9	9	3438 / 4304	5	5	5	3410 / 4265	9	9	9	3419 / 4271	5	5	5
TRE_OP2_NPAG	5630 / 6218	—	—	—	5603 / 6192	—	—	—	5064 / 5639	—	—	—	5049 / 5625	—	—	—	3438 / 4307	7	7	7	3438 / 4304	4	4	4	3410 / 4265	7	7	7	3419 / 4271	4	4	4
TRL_OP2_NPAG	5630 / 6218	—	—	—	5603 / 6192	—	—	—	5064 / 5639	—	—	—	5049 / 5625	—	—	—	3438 / 4307	9	9	9	3438 / 4304	5	5	5	3410 / 4265	8	8	8	3419 / 4271	5	5	5
WTR2_NPA_G	5630 / 6218	—	—	—	5603 / 6192	—	—	—	5064 / 5639	—	—	—	5049 / 5625	—	—	—	3438 / 4307	7	7	7	3438 / 4304	3	3	3	3410 / 4265	7	7	7	3419 / 4271	4	4	4
WTR3_NPA_G	4748 / 5429	0	0	0	4722 / 5404	0	0	0	4146 / 4806	3	3	3	4134 / 4795	0	0	0	3855 / 4805	3	3	3	3861 / 4807	0	0	0	3856 / 4787	3	3	3	3871 / 4799	0	0	0
MGR3_NPA_G	4748 / 5429	0	0	0	4722 / 5404	0	0	0	4146 / 4806	5	5	5	4134 / 4795	0	0	0	3855 / 4805	5	5	5	3861 / 4807	0	0	0	3856 / 4787	5	5	5	3871 / 4799	1	1	1
TRE_OP3_NPAG	4748 / 5429	0	0	0	4722 / 5404	0	0	0	4146 / 4806	3	3	3	4134 / 4795	0	0	0	3855 / 4805	3	3	3	3861 / 4807	0	0	0	3856 / 4787	3	3	3	3871 / 4799	0	0	0
TRL_OP3_NPAG	4748 / 5429	0	0	0	4722 / 5404	0	0	0	4146 / 4806	5	5	5	4134 / 4795	0	0	0	3855 / 4805	5	5	5	3861 / 4807	0	0	0	3856 / 4787	4	4	4	3871 / 4799	1	1	1
TRL_OP4_NPAG	4890 / 6118	0	0	0	4862 / 6094	0	0	0	4352 / 5480	3	3	3	4336 / 5470	0	0	0	3138 / 4786	7	7	7	3144 / 4789	3	3	3	3138 / 4770	7	7	7	3153 / 4781	4	4	4
MGR4_NPA_G	4890 / 6118	0	0	0	4862 / 6094	0	0	0	4352 / 5480	3	3	3	4336 / 5470	0	0	0	3138 / 4786	8	8	8	3144 / 4789	3	3	3	3138 / 4770	8	8	8	3153 / 4781	4	4	4
TRE_OP4_NPAG	4890 / 6118	0	0	0	4862 / 6094	0	0	0	4352 / 5480	2	2	2	4336 / 5470	0	0	0	3138 / 4786	6	6	6	3144 / 4789	2	2	2	3138 / 4770	6	6	6	3153 / 4781	3	3	3
WTR4_NPA_G	4890 / 6118	0	0	0	4862 / 6094	0	0	0	4352 / 5480	2	2	2	4336 / 5470	0	0	0	3138 / 4786	6	6	6	3144 / 4789	2	2	2	3138 / 4770	6	6	6	3153 / 4781	2	2	2
Packer_TM_A1	6432 / 9974	—	—	—	6402 / 9946	—	—	—	5982 / 9414	—	—	—	5964 / 9400	—	—	—	2354 / 5633	21	21	21	2337 / 5621	20	20	20	2255 / 5551	22	22	22	2247 / 5548	20	20	20
Scrapper_TMA1	6434 / 9976	—	—	—	6404 / 9948	—	—	—	5994 / 9417	—	—	—	5975 / 9402	—	—	—	2353 / 5633	14	14	14	2337 / 5620	12	12	12	2254 / 5551	15	15	15	2247 / 5547	13	13	13
Mill_intake_E	4293 / 4310	0	0	0	4261 / 4279	0	0	0	4087 / 4105	0	0	0	4061 / 4079	0	0	0	7071 / 7073	—	—	—	7069 / 7071	—	—	—	7035 / 7037	—	—	—	7042 / 7044	—	—	—
Mill_intake_N	4322 / 4507	0	0	0	4291 / 4476	0	0	0	4121 / 4313	0	0	0	4094 / 4287	0	0	0	7090 / 7114	—	—	—	7088 / 7111	—	—	—	7053 / 7074	—	—	—	7061 / 7080	—	—	—
Mill_BD10E	4319 / 4319	2	2	2	4288 / 4288	0	0	0	4114 / 4114	2	2	2	4088 / 4088	1	1	1	7072 / 7072	—	—	—	7071 / 7071	—	—	—	7036 / 7036	—	—	—	7044 / 7044	—	—	—
Mill_BD9E	4348 / 4352	0	0	0	4317 / 4320	0	0	0	4147 / 4151	0	0	0	4121 / 4125	0	0	0	7091 / 7092	—	—	—	7090 / 7090	—	—	—	7055 / 7055	—	—	—	7062 / 7062	—	—	—
Mill_BD27W	4400 / 4400	0	0	0	4368 / 4368	0	0	0	4190 / 4190	0	0	0	4164 / 4164	0	0	0	7030 / 7030	—	—	—	7028 / 7028	—	—	—	6992 / 6992	—	—	—	6999 / 6999	—	—	—
Mill_BD18W	4438 / 4438	0	0	0	4407 / 4407	0	0	0	4230 / 4230	0	0	0	4204 / 4204	0	0	0	7035 / 7035	—	—	—	7033 / 7033	—	—	—	6997 / 6997	—	—	—	7004 / 7004	—	—	—

The two numbers ###/### represent the minimum and maximum distances for the source to the Point of Reception

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR17			POR17a			POR19			POR20			POR21			POR22			POR23			POR24										
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
BD2	6996	—	—	—	6966	—	—	—	9769	—	—	—	2765	0	0	0	4051	0	0	0	4157	0	0	0	2877	0	0	0	2782	0	0	0
BD3	6715	—	—	—	6684	—	—	—	9631	—	—	—	2960	16	16	16	4304	12	12	12	4444	10	10	10	2991	16	16	16	2969	16	16	16
BD4	7022	—	—	—	6991	—	—	—	9785	—	—	—	2752	0	0	0	4026	0	0	0	4131	0	0	0	2873	0	0	0	2770	0	0	0
BD5	6741	—	—	—	6711	—	—	—	9655	—	—	—	2954	16	16	16	4277	12	12	12	4420	10	10	10	2994	16	16	16	2964	16	16	16
UC	7702	—	—	—	7673	—	—	—	11051	—	—	—	3653	4	4	4	3250	2	2	2	3937	4	4	4	4004	3	3	3	3701	4	4	4
DC1	7708	—	—	—	7679	—	—	—	11069	—	—	—	3675	14	14	14	3247	13	13	13	3946	10	10	10	4027	13	13	13	3723	14	14	14
DC2	7461	—	—	—	7432	—	—	—	10972	—	—	—	3820	10	10	10	3512	5	5	5	4222	9	9	9	4112	12	12	12	3862	9	9	9
E1	6669	—	—	—	6638	—	—	—	9303	—	—	—	2678	32	32	32	4473	27	27	27	4450	26	26	26	2634	32	32	32	2677	32	32	32
E2	7189	—	—	—	7159	—	—	—	9943	—	—	—	2734	16	16	16	3848	12	12	12	3977	11	11	11	2915	16	16	16	2759	16	16	16
E3	7162	—	—	—	7131	—	—	—	9951	—	—	—	2779	14	14	14	3864	10	10	10	4012	9	9	9	2954	15	15	15	2803	14	14	14
E4	6696	—	—	—	6665	—	—	—	9643	—	—	—	2997	28	28	28	4315	24	24	24	4469	24	24	24	3026	28	28	28	3006	28	28	28
E5	7445	—	—	—	7416	—	—	—	10934	—	—	—	3783	17	17	17	3521	19	19	19	4211	16	16	16	4071	20	20	20	3824	17	17	17
E6	6675	—	—	—	6644	—	—	—	9350	—	—	—	2716	25	25	25	4446	19	19	19	4446	19	19	19	2684	24	24	24	2716	25	25	25
E7	6563	—	—	—	6532	—	—	—	9313	—	—	—	2819	24	24	24	4536	19	19	19	4560	18	18	18	2760	24	24	24	2817	24	24	24
E8	4550	6	6	6	4522	4	4	4	9369	—	—	—	5353	—	—	—	6476	—	—	—	6969	—	—	—	5067	—	—	—	5333	—	—	—
E11	3268	10	10	10	3238	9	9	9	8147	—	—	—	5778	—	—	—	7663	—	—	—	7913	—	—	—	5261	—	—	—	5733	—	—	—
E12	1682	23	23	23	1651	20	20	20	7130	—	—	—	6996	—	—	—	9331	—	—	—	9449	—	—	—	6315	—	—	—	6933	—	—	—
E13	3643	9	9	9	3614	7	7	7	8406	—	—	—	5538	—	—	—	7289	—	—	—	7577	—	—	—	5071	—	—	—	5499	—	—	—
E14	1033	28	28	28	1006	26	26	26	7621	—	—	—	7799	—	—	—	9909	—	—	—	10141	—	—	—	7146	—	—	—	7740	—	—	—
E15	2784	13	13	13	2753	11	11	11	7377	—	—	—	5944	—	—	—	8237	—	—	—	8338	—	—	—	5313	—	—	—	5886	—	—	—
E16	2038	21	21	21	2006	15	15	15	7130	—	—	—	6644	—	—	—	8997	—	—	—	9097	—	—	—	5970	—	—	—	6581	—	—	—
E17	7885	—	—	—	7855	—	—	—	11012	—	—	—	3385	12	12	12	3047	11	11	11	3638	8	8	8	3786	10	10	10	3437	12	12	12
E18	7920	—	—	—	7891	—	—	—	11022	—	—	—	3359	12	12	12	3010	11	11	11	3595	8	8	8	3769	10	10	10	3413	12	12	12
EO_FEL	6478	—	—	—	6447	—	—	—	9546	—	—	—	3164	28	28	28	4514	19	19	19	4693	18	18	18	3137	28	28	28	3167	28	28	28
EO_PC	6472	—	—	—	6442	—	—	—	9593	—	—	—	3222	28	28	28	4506	20	20	20	4713	19	19	19	3202	28	28	28	3227	27	27	27
EO_SCNR	6460	—	—	—	6429	—	—	—	9576	—	—	—	3219	30	30	30	4521	21	21	21	4722	20	20	20	3194	30	30	30	3222	30	30	30
EO_GENSET	6453	—	—	—	6422	—	—	—	9574	—	—	—	3226	33	33	33	4527	25	25	25	4730	24	24	24	3199	33	33	33	3229	33	33	33
DD1	7043	—	—	—	7013	—	—	—	9789	—	—	—	2729	6	6	6	4010	5	5	5	4107	3	3	3	2855	5	5	5	2748	6	6	6
DD2	7026	—	—	—	6996	—	—	—	9751	—	—	—	2707	6	6	6	4037	6	6	6	4119	3	3	3	2823	5	5	5	2724	6	6	6
DD3	7048	—	—	—	7018	—	—	—	9831	—	—	—	2773	8	8	8	3990	5	5	5	4112	4	4	4	2906	6	6	6	2793	7	7	7
DD4	7050	—	—	—	7020	—	—	—	9814	—	—	—	2751	6	6	6	3995	6	6	6	4105	4	4	4	2882	6	6	6	2770	6	6	6
T1	7293	—	—	—	7265	—	—	—	11314	—	—	—	4546	16	16	16	3901	20	20	20	4833	18	18	18	4793	16	16	16	4585	16	16	16
T2	7296	—	—	—	7269	—	—	—	11310	—	—	—	4535	16	16	16	3892	20	20	20	4822	19	19	19	4782	16	16	16	4573	16	16	16
TD01	6617	—	—	—	6587	—	—	—	9986	—	—	—	3498	23	23	23	4316	17	17	17	4690	16	16	16	3558	23	23	23	3513	23	23	23
TD02	7048	—	—	—	7018	—	—	—	10013	—	—	—	2997	24	24	24	3931	6	6	6	4168	15	15	15	3151	24	24	24	3020	24	24	24
TD03	4921	20	20	20	4890	19	19	19	8028	—	—	—	3897	26	26	26	6240	—	—	—	6211	—	—	—	3406	28	28	28	3852	26	26	26
TD04	8114	—	—	—	8084	—	—	—	11013	—	—	—	3129	29	29	29	2826	28	28	28	3311	29	29	29	3595	27	27	27	3188	28	28	28
TD07D	7102	—	—	—	7071	—	—	—	9856	—	—	—	2737	5	5	5	3943	3	3	3	4057	1	1	1	2886	4	4	4	2758	4	4	4
TD08D	6594	—	—	—	6563	—	—	—	9400	—	—	—	2867	22	22	22	4478	17	17	17	4536	16	16	16	2832	22	22	22	2868	22	22	22
TD08N	9031	—	—	—	9002	—	—	—	11956	—	—	—	3646	27	27	27	1908	—	33	33	2826	—	27	27	4285	—	25	25	3726	—	27	27
TD09	8884	—	—	—	8855	—	—	—	11971	—	—	—	3808	12	12	12	2089	18	18	18	3083	16	16	16	4407	9	9	9	3884	12	12	12
TD11D	4659	23	23	23	4628	22	22	22	7097	—	—	—	4010	28	28	28	6932	—	—	—	6694	—	—	—	3321	27	27	27	3943	28	28	28
TD11N	4759	—	17	17	4728	—	15	15	8201	—	—	—	4157	—	21	21	6296	—	—	—	6358	—	—	—	3701	—	24	24	4116	—	22	22
TD12D	6834	—	—	—	6805	—	—	—	10212	—	—	—	3516	30	30	30	4096	25	25	25	4531	23	23	23	3640	30	30	30	3538	30	30	30
TD15	6742	—	—	—	6711	—	—	—	9443	—	—	—	2726	16	16	16	4360	11	11	11	4384	10	10	10	2726	16	16	16	2730	16	16	16
TD17	6350	—	—	—	6319	—	—	—	8949	—	—	—	2765	19	19	19	4847	9	9	9	4770	8	8	8	2584	20	20	20	2749	19	19	19
TD18	4559	11	11	11	4531	10	10	10	9421	—	—	—	5401	—	—	—	6485	—	—	—	6993	—	—	—	5121	—	—	—	5382	—	—	—
TD23	2831	18	18	18	2800	17	17	17	7478	—	—	—	5924	—	—	—	8166	—	—	—	8286	—	—	—	5307	—	—	—	5868	—	—	—
TD24	2095	26	26	26	2064	21	21	21	7122	—	—	—	6586	—	—	—	8946	—	—	—	9042	—	—	—	5912	—	—	—	6523	—	—	—

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR17			POR17a			POR19			POR20			POR21			POR22			POR23			POR24										
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)				
TMA_WP2_P3	1773	0	0	0	1743	0	0	0	7647	—	—	—	7069	—	—	—	9158	—	—	—	9378	—	—	—	6442	—	—	—	7012	—	—	—
TMA_WTP_Ex1	1636	0	0	0	1605	0	0	0	6935	—	—	—	7031	—	—	—	9453	—	—	—	9535	—	—	—	6329	—	—	—	6965	—	—	—
TMA_WTP_Ex2	1645	0	0	0	1613	0	0	0	6918	—	—	—	7023	—	—	—	9453	—	—	—	9532	—	—	—	6319	—	—	—	6957	—	—	—
TMA_Diesel Pump	1458	14	14	14	1427	13	13	13	6825	—	—	—	7221	—	—	—	9683	—	—	—	9753	—	—	—	6504	—	—	—	7153	—	—	—
Asyl_chiller 1	7099	—	—	—	7071	—	—	—	10995	—	—	—	4293	0	0	0	3977	0	0	0	4781	0	0	0	4502	0	0	0	4327	0	0	0
Asyl_chiller 2	7100	—	—	—	7072	—	—	—	10995	—	—	—	4293	0	0	0	3976	0	0	0	4781	0	0	0	4502	0	0	0	4327	0	0	0
Asyl_MUA	7097	—	—	—	7069	—	—	—	10997	—	—	—	4299	0	0	0	3980	0	0	0	4786	0	0	0	4507	0	0	0	4333	0	0	0
Asyl_DC1	7087	—	—	—	7059	—	—	—	10995	—	—	—	4308	5	5	5	3992	0	0	0	4799	3	3	3	4514	5	5	5	4341	5	5	5
Asyl_DC2	7082	—	—	—	7054	—	—	—	10989	—	—	—	4307	6	6	6	3997	1	1	1	4802	3	3	3	4511	6	6	6	4340	6	6	6
Mill_Exh1	7300	—	—	—	7273	—	—	—	11168	—	—	—	4310	3	3	3	3799	12	12	12	4657	15	15	15	4561	2	2	2	4348	3	3	3
Mill_Exh2	7315	—	—	—	7287	—	—	—	11154	—	—	—	4271	19	19	19	3772	20	20	20	4619	16	16	16	4526	2	2	2	4309	3	3	3
Mill_Exh3	7296	—	—	—	7268	—	—	—	11201	—	—	—	4366	0	0	0	3824	4	4	4	4699	0	0	0	4616	0	0	0	4405	0	0	0
Mill_Exh4	7295	—	—	—	7267	—	—	—	11203	—	—	—	4371	0	0	0	3827	4	4	4	4703	0	0	0	4620	0	0	0	4409	0	0	0
Mill_Exh5	7278	—	—	—	7251	—	—	—	11220	—	—	—	4416	0	0	0	3859	2	2	2	4747	0	0	0	4662	0	0	0	4455	0	0	0
Mill_Exh6	7255	—	—	—	7227	—	—	—	11211	—	—	—	4433	0	0	0	3887	0	0	0	4775	0	0	0	4673	0	0	0	4470	0	0	0
Mill_Exh7	7221	—	—	—	7193	—	—	—	11177	—	—	—	4421	12	12	12	3913	8	8	8	4789	10	10	10	4655	12	12	12	4458	12	12	12
Mill_Exh8	7219	—	—	—	7191	—	—	—	11175	—	—	—	4421	12	12	12	3915	8	8	8	4790	10	10	10	4654	12	12	12	4458	12	12	12
Loader	7722	—	—	—	7692	—	—	—	10660	—	—	—	3056	28	28	28	3226	25	25	25	3617	23	23	23	3419	27	27	27	3103	28	28	28
WP19	656	27	27	27	628	26	26	26	6923	—	—	—	8072	—	—	—	10490	—	—	—	10598	—	—	—	7345	—	—	—	8004	—	—	—
WP20	1515	13	13	13	1489	12	12	12	6229	—	—	—	7428	—	—	—	10131	—	—	—	10100	—	—	—	6653	—	—	—	7353	—	—	—
WP21	2041	8	8	8	2014	7	7	7	6005	—	—	—	6921	—	—	—	9746	—	—	—	9649	—	—	—	6131	—	—	—	6844	—	—	—
WP22	1014	17	17	17	993	16	16	16	7914	—	—	—	8053	—	—	—	10042	—	—	—	10329	—	—	—	7421	—	—	—	7997	—	—	—
WP23	1486	14	14	14	1475	13	13	13	8551	—	—	—	8280	—	—	—	9987	—	—	—	10391	—	—	—	7704	—	—	—	8230	—	—	—
WP24	4478	0	0	0	4448	0	0	0	8760	—	—	—	4854	0	0	0	6453	—	—	—	6751	—	—	—	4484	0	0	0	4824	0	0	0
WP25	6760	—	—	—	6733	—	—	—	11198	—	—	—	5030	—	—	—	4591	0	0	0	5530	—	—	—	5167	—	—	—	5057	—	—	—
WP26	6979	—	—	—	6951	—	—	—	11019	—	—	—	4478	0	0	0	4151	0	0	0	4988	0	0	0	4661	0	0	0	4510	0	0	0
WP27	7240	—	—	—	7211	—	—	—	10760	—	—	—	3774	1	1	1	3718	0	0	0	4358	0	0	0	4014	0	0	0	3810	1	1	1
WP28	3551	0	0	0	3520	0	0	0	7691	—	—	—	5248	—	—	—	7466	—	—	—	7566	—	—	—	4674	0	0	0	5196	—	—	—
TD_WRMS	4769	16	16	16	4738	15	15	15	8115	—	—	—	4104	20	20	20	6319	—	—	—	6351	—	—	—	3630	23	23	23	4061	21	21	21
CP_JC	4201	19	19	19	4172	18	18	18	8511	—	—	—	4981	18	18	18	6731	—	—	—	6987	—	—	—	4557	20	20	20	4946	19	19	19
CP_S	4214	16	16	16	4184	15	15	15	8506	—	—	—	4964	16	16	16	6720	—	—	—	6972	—	—	—	4540	17	17	17	4928	16	16	16
CP_Gen	4202	18	18	18	4172	16	16	16	8487	—	—	—	4963	17	17	17	6732	—	—	—	6980	—	—	—	4536	19	19	19	4927	17	17	17
CP_loader	4184	6	6	6	4154	5	5	5	8509	—	—	—	4999	5	5	5	6748	—	—	—	7005	—	—	—	4574	7	7	7	4964	6	6	6
Intake	8216	—	—	—	8186	—	—	—	11430	—	—	—	3653	0	0	0	2740	0	0	0	3529	0	0	0	4122	0	0	0	3714	0	0	0
Mat_drop	7695	—	—	—	7666	—	—	—	11041	—	—	—	3648	17	17	17	3256	16	16	16	3940	17	17	17	3997	16	16	16	3695	17	17	17
WP29	2683	3	3	3	2668	2	2	2	9427	—	—	—	7892	—	—	—	9112	—	—	—	9688	—	—	—	7441	—	—	—	7857	—	—	—
WP30	3057	1	1	1	3044	0	0	0	9856	—	—	—	8076	—	—	—	9083	—	—	—	9741	—	—	—	7667	—	—	—	8045	—	—	—
WP31	3374	3	3	3	3357	0	0	0	9871	—	—	—	7588	—	—	—	8518	—	—	—	9187	—	—	—	7216	—	—	—	7561	—	—	—
WP32	4192	0	0	0	4169	0	0	0	9874	—	—	—	6436	—	—	—	7239	—	—	—	7903	—	—	—	6153	—	—	—	6419	—	—	—
WP33	4639	0	0	0	4615	0	0	0	10112	—	—	—	6180	—	—	—	6796	—	—	—	7508	—	—	—	5959	—	—	—	6169	—	—	—
WP34	4904	0	0	0	4880	0	0	0	10195	—	—	—	5948	—	—	—	6483	—	—	—	7206	—	—	—	5764	—	—	—	5941	—	—	—
WP35	4852	0	0	0	4824	0	0	0	9463	—	—	—	5086	—	—	—	6152	—	—	—	6644	—	—	—	4839	0	0	0	5070	—	—	—
WP36	3091	2	2	2	3060	0	0	0	7326	—	—	—	5619	—	—	—	7982	—	—	—	8042	—	—	—	4986	0	0	0	5560	—	—	—
WP37	4346	0	0	0	4316	0	0	0	8584	—	—	—	4869	0	0	0	6587	—	—	—	6846	—	—	—	4464	0	0	0	4836	0	0	0
WP38	3342	1	1	1	3312	0	0	0	7876	—	—	—	5548	—	—	—	7614	—	—	—	7786	—	—	—	4996	0	0	0	5498	—	—	—
WP39	5150	—	—	—	5119	—	—	—	8636	—	—	—	3974	0	0	0	5847	—	—	—	5982	—	—	—	3623	0	0	0	3944	0	0	0
WP40	5897	—	—	—	5865	—	—	—	7774	—	—	—	2776	6	6	6	5837	—	—	—	5462	—	—	—	2187	9	9	9	2716	6	6	6
WP41	8648	—	—	—	8618	—	—	—	10799	—	—	—	2259	7	7	7	2620	4	4	4	2499	4	4	4	2915	4	4	4	2337	7	7	7
MGR_NPA_G	4760 / 7310	0	0	0	4729 / 7279	0	0	0	8059 / 9863	—	—	—	2369 / 4089	9	9	9	3810 / 6346	0	0	0	3821 / 6362	0	0	0	2412 / 3602	10	10	10	2376 / 4044	9	9	9
MGR_OB	5166 / 7311	—	—	—	5135 / 7280	—	—	—	8591 / 9863	—	—	—	2370 / 4041	8	8	8	3808 / 5845	0	0	0	3820 / 5960	0	0	0	2411 / 3754							

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR17				POR17a				POR19				POR20				POR21				POR22				POR23				POR24			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
TRL_OP_MA	4224 / 7311	0	0	0	4194 / 7281	0	0	0	8584 / 9866	—	—	—	2367 / 5010	5	5	5	3807 / 6707	0	0	0	3819 / 6983	0	0	0	2409 / 4598	5	5	5	2374 / 4976	4	4	4
WTR_NPA_G	4760 / 7312	0	0	0	4729 / 7281	0	0	0	8059 / 9864	—	—	—	2371 / 4089	9	9	9	3809 / 6346	0	0	0	3818 / 6362	0	0	0	2411 / 3602	9	9	9	2378 / 4044	8	8	8
WTR_OB	5166 / 7311	—	—	—	5135 / 7280	—	—	—	8591 / 9866	—	—	—	2370 / 4041	6	6	6	3807 / 5845	0	0	0	3820 / 5960	0	0	0	2408 / 3754	7	7	7	2377 / 4019	6	6	6
WTR_OPMill	6717 / 7707	—	—	—	6686 / 7677	—	—	—	9476 / 11007	—	—	—	2489 / 3583	7	7	7	3230 / 4335	4	4	4	3585 / 4424	2	2	2	2654 / 3936	7	7	7	2515 / 3631	7	7	7
WTR_PAG	6923 / 8905	—	—	—	6892 / 8876	—	—	—	9544 / 12149	—	—	—	2492 / 4070	7	7	7	2148 / 4198	8	8	8	3282 / 4201	5	5	5	2655 / 4654	6	6	6	2519 / 4144	7	7	7
WTR_SP	6923 / 9005	—	—	—	6892 / 8975	—	—	—	9545 / 11971	—	—	—	2490 / 3694	7	7	7	1942 / 4198	8	8	8	2887 / 4202	5	5	5	2655 / 4324	6	6	6	2517 / 3773	7	7	7
TRE_TMA1	681 / 4712	27	27	27	650 / 4686	25	25	25	6775 / 9811	—	—	—	4990 / 8149	0	0	0	6406 / 10290	—	—	—	6859 / 10437	—	—	—	4594 / 7563	0	0	0	4957 / 8098	0	0	0
TRL_TMA1	684 / 4707	28	28	28	654 / 4681	26	26	26	6776 / 9809	—	—	—	4990 / 8147	0	0	0	6433 / 10290	—	—	—	6881 / 10434	—	—	—	4594 / 7561	1	1	1	4957 / 8096	0	0	0
TRL_TMA_2_023	1406 / 4853	16	16	16	1391 / 4828	13	13	13	8394 / 10156	—	—	—	5683 / 8209	—	—	—	6483 / 9919	—	—	—	7103 / 10316	—	—	—	5454 / 7636	—	—	—	5671 / 8159	—	—	—
TRE_TMA_2023	1406 / 4852	15	15	15	1392 / 4828	12	12	12	8396 / 10157	—	—	—	5685 / 8210	—	—	—	6484 / 9920	—	—	—	7105 / 10317	—	—	—	5456 / 7638	—	—	—	5673 / 8161	—	—	—
MGR2_NPA_G	4464 / 5036	2	2	2	4433 / 5005	0	0	0	7619 / 8572	—	—	—	3735 / 4384	6	6	6	6111 / 6714	—	—	—	6091 / 6681	—	—	—	3178 / 3959	7	7	7	3685 / 4344	6	6	6
TRE_OP2_NPAG	4464 / 5036	0	0	0	4433 / 5005	0	0	0	7619 / 8572	—	—	—	3735 / 4384	4	4	4	6111 / 6714	—	—	—	6091 / 6681	—	—	—	3178 / 3959	6	6	6	3685 / 4344	4	4	4
TRL_OP2_NPAG	4464 / 5036	2	2	2	4433 / 5005	1	1	1	7619 / 8572	—	—	—	3735 / 4384	6	6	6	6111 / 6714	—	—	—	6091 / 6681	—	—	—	3178 / 3959	7	7	7	3685 / 4344	6	6	6
WTR2_NPA_G	4464 / 5036	0	0	0	4433 / 5005	0	0	0	7619 / 8572	—	—	—	3735 / 4384	4	4	4	6111 / 6714	—	—	—	6091 / 6681	—	—	—	3178 / 3959	6	6	6	3685 / 4344	4	4	4
WTR3_NPA_G	5375 / 5981	—	—	—	5344 / 5950	—	—	—	7675 / 8775	—	—	—	2786 / 3331	8	8	8	5309 / 6150	—	—	—	5214 / 5898	—	—	—	2310 / 3052	10	10	10	2738 / 3307	8	8	8
MGR3_NPA_G	5375 / 5981	—	—	—	5344 / 5950	—	—	—	7675 / 8775	—	—	—	2786 / 3331	10	10	10	5309 / 6150	—	—	—	5214 / 5898	—	—	—	2310 / 3052	12	12	12	2738 / 3307	10	10	10
TRE_OP3_NPAG	5375 / 5981	—	—	—	5344 / 5950	—	—	—	7675 / 8775	—	—	—	2786 / 3331	8	8	8	5309 / 6150	—	—	—	5214 / 5898	—	—	—	2310 / 3052	10	10	10	2738 / 3307	8	8	8
TRL_OP3_NPAG	5375 / 5981	—	—	—	5344 / 5950	—	—	—	7675 / 8775	—	—	—	2786 / 3331	9	9	9	5309 / 6150	—	—	—	5214 / 5898	—	—	—	2310 / 3052	11	11	11	2738 / 3307	9	9	9
TRL_OP4_NPAG	4816 / 5773	0	0	0	4784 / 5742	0	0	0	7059 / 8750	—	—	—	3261 / 3860	9	9	9	5321 / 6868	—	—	—	5345 / 6587	—	—	—	2838 / 3155	11	11	11	3231 / 3791	9	9	9
MGR4_NPA_G	4816 / 5773	0	0	0	4784 / 5742	0	0	0	7059 / 8750	—	—	—	3261 / 3860	9	9	9	5321 / 6868	—	—	—	5345 / 6587	—	—	—	2838 / 3155	11	11	11	3231 / 3791	9	9	9
TRE_OP4_NPAG	4816 / 5773	0	0	0	4784 / 5742	0	0	0	7059 / 8750	—	—	—	3261 / 3860	7	7	7	5321 / 6868	—	—	—	5345 / 6587	—	—	—	2838 / 3155	10	10	10	3231 / 3791	8	8	8
WTR4_NPA_G	4816 / 5773	0	0	0	4784 / 5742	0	0	0	7059 / 8750	—	—	—	3261 / 3860	7	7	7	5321 / 6868	—	—	—	5345 / 6587	—	—	—	2838 / 3155	10	10	10	3231 / 3791	8	8	8
Packer_TM_A1	687 / 4854	35	35	35	656 / 4830	34	34	34	6775 / 10155	—	—	—	4973 / 8206	0	0	0	6404 / 10288	—	—	—	6857 / 10430	—	—	—	4576 / 7634	5	5	5	4940 / 8157	0	0	0
Scrapper_TMA1	685 / 4852	28	28	28	654 / 4828	25	25	25	6775 / 10154	—	—	—	4990 / 8208	0	0	0	6406 / 10290	—	—	—	6859 / 10433	—	—	—	4594 / 7636	0	0	0	4957 / 8158	0	0	0
Mill_intake_E	7300 / 7309	—	—	—	7272 / 7281	—	—	—	11163 / 11168	—	—	—	4293 / 4310	0	0	0	3786 / 3799	0	0	0	4639 / 4657	0	0	0	4547 / 4561	0	0	0	4332 / 4348	0	0	0
Mill_intake_N	7241 / 7309	—	—	—	7213 / 7281	—	—	—	11190 / 11256	—	—	—	4333 / 4519	0	0	0	3799 / 3935	0	0	0	4667 / 4846	0	0	0	4586 / 4756	0	0	0	4372 / 4556	0	0	0
Mill_BD10E	7297 / 7297	—	—	—	7269 / 7269	—	—	—	11171 / 11171	—	—	—	4319 / 4319	0	0	0	3805 / 3805	4	4	4	4665 / 4665	0	0	0	4569 / 4569	0	0	0	4357 / 4357	0	0	0
Mill_BD9E	7296 / 7298	—	—	—	7269 / 7270	—	—	—	11197 / 11198	—	—	—	4358 / 4362	0	0	0	3819 / 3822	0	0	0	4692 / 4696	0	0	0	4608 / 4612	0	0	0	4396 / 4400	0	0	0
Mill_BD27W	7226 / 7226	—	—	—	7198 / 7198	—	—	—	11146 / 11146	—	—	—	4367 / 4367	7	7	7	3888 / 3888	0	0	0	4747 / 4747	0	0	0	4602 / 4602	7	7	7	4404 / 4404	7	7	7
Mill_BD18W	7211 / 7211	—	—	—	7184 / 7184	—	—	—	11160 / 11160	—	—	—	4407 / 4407	12	12	12	3916 / 3916	0	0	0	4785 / 4785	0	0	0	4638 / 4638	13	13	13	4443 / 4443	12	12	12

The two numbers ###/### represent the minimum and maximum distances for the source to the Point of Reception

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR25			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
BD2	2718	0	0	0
BD3	2960	17	17	17
BD4	2700	0	0	0
BD5	2947	17	17	17
UC	3370	6	6	6
DC1	3390	16	16	16
DC2	3576	11	11	11
E1	2753	30	30	30
E2	2636	17	17	17
E3	2682	16	16	16
E4	2995	29	29	29
E5	3543	19	19	19
E6	2779	25	25	25
E7	2894	25	25	25
E8	5491	—	—	—
E11	6076	—	—	—
E12	7404	—	—	—
E13	5804	—	—	—
E14	8179	—	—	—
E15	6324	—	—	—
E16	7049	—	—	—
E17	3073	10	—	—
E18	3041	10	—	—
EO_FEL	3192	29	—	—
EO_PC	3242	28	—	—
EO_SCNR	3242	31	—	—
EO_GENSET	3250	34	—	—
DD1	2675	8	8	8
DD2	2661	7	7	7
DD3	2710	8	8	8
DD4	2691	8	8	8
T1	4314	18	18	18
T2	4302	18	18	18
TD01	3445	24	29	29
TD02	2901	25	25	25
TD03	4216	25	25	25
TD04	2776	31	31	31
TD07D	2664	6	—	—
TD08D	2921	22	—	—
TD08N	3135	—	30	30
TD09	3325	15	15	15
TD11D	4462	23	—	—
TD11N	4445	—	21	21
TD12D	3413	32	—	—
TD15	2765	17	17	17
TD17	2930	20	—	—
TD18	5534	—	—	—
TD23	6294	—	—	—
TD24	6991	—	—	—
TD26	8371	—	—	—
TD27	8315	—	—	—
WD	2627	26	26	26
WL1	3278	27	27	27
WL2	2645	23	23	23
WL3	2987	29	29	29
WL4	5622	—	—	—
WL5	5883	—	—	—
WL6	5139	—	—	—
WP01	2866	0	0	0
WP02	2760	3	3	3
WP03	2682	2	2	2
WP04	2403	0	0	0
WP05	3112	2	2	2
WP06	3234	1	1	1
WP07	3330	1	1	1
WP08	2716	0	0	0
WP09	2601	0	0	0
WP10	2743	0	0	0
WP12	2906	5	5	5
WP13	2841	5	5	5
WP14	4489	0	0	0
WP15	4464	0	0	0
WP17	4593	0	0	0
WP18	4839	18	18	18
MBPA_GENSET	3338	26	26	26
COP1	5454	—	—	—
COP2	5992	—	—	—
TMA_Pump H	6359	—	—	—
TMA_WP2_P1	7433	—	—	—
TMA_WP2_P2	7434	—	—	—

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR25			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
TMA_WP2_P3	7433	—	—	—
TMA_WTP_Ex1	7455	—	—	—
TMA_WTP_Ex2	7448	—	—	—
TMA_Diesel Pump	7654	—	—	—
AsyL_chiller 1	4097	0	0	0
AsyL_chiller 2	4097	0	0	0
AsyL_MUA	4103	0	0	0
AsyL_DC1	4113	8	8	8
AsyL_DC2	4113	9	9	9
Mill_Exh1	4080	4	4	4
Mill_Exh2	4040	16	16	16
Mill_Exh3	4136	0	0	0
Mill_Exh4	4141	0	0	0
Mill_Exh5	4188	0	0	0
Mill_Exh6	4208	0	0	0
Mill_Exh7	4202	12	12	12
Mill_Exh8	4202	12	12	12
Loader	2792	26	26	26
WP19	8509	—	—	—
WP20	7906	—	—	—
WP21	7414	—	—	—
WP22	8416	—	—	—
WP23	8597	—	—	—
WP24	5063	—	—	—
WP25	4867	0	0	0
WP26	4296	0	0	0
WP27	3573	0	0	0
WP28	5595	—	—	—
TD_WRMS	4406	20	20	20
CP_JC	5226	—	—	—
CP_S	5209	—	—	—
CP_Gen	5211	—	—	—
CP_loader	5245	—	—	—
Intake	3277	0	0	0
Mat_drop	3366	21	21	21
WP29	8118	—	—	—
WP30	8269	—	—	—
WP31	7758	—	—	—
WP32	6555	—	—	—
WP33	6257	—	—	—
WP34	6002	—	—	—
WP35	5202	—	—	—
WP36	6004	—	—	—
WP37	5103	—	—	—
WP38	5874	—	—	—
WP39	4193	0	0	0
WP40	3202	5	5	5
WP41	1793	12	12	12
MGR_NPA_G	2368 / 4399	10	10	10
MGR_OB	2367 / 4215	9	9	9
MGR_OPMil	2389 / 3300	11	11	11
MGR_PAG	2390 / 3591	12	12	12
MGR_SP	2390 / 3190	11	11	11
TRE_OP_N_PAG	2365 / 4399	9	9	9
TRE_OP_O_B	2366 / 4215	0	0	0
TRE_OP_Mil	2380 / 3300	7	7	7
TRE_OP_P_AG	2391 / 3588	12	12	12
TRE_OP_L_GO	2392 / 3189	4	4	4
TRE_OP_T_MA	2367 / 5245	4	4	4
TRL_OP_N_PAG	2365 / 4399	10	10	10
TRL_OP_O_B	2366 / 4215	2	2	2
TRL_OP_Mil	2387 / 3300	8	8	8
TRL_OP_P_AG	2392 / 3591	13	13	13
TRL_OP_L_GO	2392 / 3188	5	5	5

Table 5: Point of Reception Noise Impact Summary - Normal Operations (Stationary Source)

AAR ID	POR25			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
TRL_OP_TMA	2367 / 5245	6	6	6
WTR_NPA_G	2365 / 4399	9	9	9
WTR_OB	2367 / 4215	7	7	7
WTR_OPMI	2392 / 3300	9	9	9
WTR_PAG	2390 / 3592	10	10	10
WTR_SP	2389 / 3189	10	10	10
TRE_TMA1	5214 / 8475	—	—	—
TRL_TMA1	5214 / 8473	—	—	—
TRL_TMA_2023	5775 / 8524	—	—	—
TRE_TMA_2023	5777 / 8526	—	—	—
MGR2_NPA_G	4081 / 4675	5	5	5
TRE_OP2_NPAG	4081 / 4675	4	4	4
TRL_OP2_NPAG	4081 / 4675	5	5	5
WTR2_NPA_G	4081 / 4675	4	4	4
WTR3_NPA_G	3118 / 3711	7	7	7
MGR3_NPA_G	3118 / 3711	9	9	9
TRE_OP3_NPAG	3118 / 3711	7	7	7
TRL_OP3_NPAG	3118 / 3711	9	9	9
TRL_OP4_NPAG	3498 / 4325	8	8	8
MGR4_NPA_G	3498 / 4325	8	8	8
TRE_OP4_NPAG	3498 / 4325	7	7	7
WTR4_NPA_G	3498 / 4325	7	7	7
Packer_TM_A1	5198 / 8522	—	—	—
Scraper_TMA1	5214 / 8523	—	—	—
Mill_intake_E	4063 / 4080	0	0	0
Mill_intake_N	4102 / 4295	0	0	0
Mill_BD10E	4090 / 4090	0	0	0
Mill_BD9E	4128 / 4132	0	0	0
Mill_BD27W	4148 / 4148	2	2	2
Mill_BD18W	4189 / 4189	8	8	8

Table 6: Acoustic Assessment Summary Table - Overall Sound Levels - Normal Operations (Stationary Source)

Point of Reception ID	Description of Point of Reception	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit?	Daytime Performance Limit (dBA)	Evening Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit?
POR1	POR1	32	32	32	No	45	40	40	Yes
POR1a	POR1a	31	31	31	No	45	40	-	Yes
POR3	POR3	19	23	23	No	45	40	40	Yes
POR3a	POR3a	21	23	23	No	45	40	-	Yes
POR4	POR4	26	28	28	No	45	40	40	Yes
POR4a	POR4a	25	26	26	No	45	40	-	Yes
POR6	POR6	28	30	30	No	45	40	40	Yes
POR6a	POR6a	27	29	29	No	45	40	-	Yes
POR7	POR7	22	25	25	No	45	40	40	Yes
POR7a	POR7a	20	24	24	No	45	40	-	Yes
POR8	POR8	28	29	29	No	45	40	40	Yes
POR8a	POR8a	26	28	28	No	45	40	-	Yes
POR9	POR9	28	30	30	No	45	40	40	Yes
POR9a	POR9a	26	28	28	No	45	40	-	Yes
POR10	POR10	33	33	33	No	45	40	40	Yes
POR10a	POR10a	32	32	32	No	45	40	-	Yes
POR11	POR11	36	35	35	No	45	40	40	Yes
POR11a	POR11a	34	34	34	No	45	40	-	Yes
POR12	POR12	37	38	38	No	45	40	40	Yes
POR12a	POR12a	36	36	36	No	45	40	-	Yes
POR14	POR14	39	39	39	No	45	40	40	Yes
POR14a	POR14a	37	37	37	No	45	40	-	Yes
POR15	POR15	37	35	35	No	45	40	40	Yes
POR15a	POR15a	34	33	33	No	45	40	-	Yes
POR16	POR16	37	36	36	No	45	40	40	Yes
POR16a	POR16a	35	33	33	No	45	40	-	Yes
POR17	POR17	40	40	40	No	45	40	40	Yes
POR17a	POR17a	39	38	38	No	45	40	-	Yes
POR19	POR19	0	0	0	No	45	40	40	Yes
POR20	POR20	42	40	40	No	45	40	40	Yes
POR21	POR21	36	37	37	No	45	40	40	Yes
POR22	POR22	36	36	36	No	45	40	40	Yes
POR23	POR23	41	39	39	No	45	40	40	Yes
POR24	POR24	42	40	40	No	45	40	40	Yes
POR25	POR25	42	40	40	No	45	40	40	Yes

Table 7: Point of Reception Noise Impact Summary - Emergency Sources

AAR ID	POR1				POR1a				POR3				POR3a				POR4			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
EG1	4857	37	—	—	4832	36	—	—	4925	35	—	—	4897	33	—	—	4809	35	—	—
EG2	4870	35	—	—	4845	34	—	—	4925	35	—	—	4897	33	—	—	4808	35	—	—
FP1	5050	—	—	—	5025	—	—	—	4857	39	—	—	4828	37	—	—	4733	39	—	—
FP2	5063	—	—	—	5038	—	—	—	4861	39	—	—	4832	37	—	—	4737	39	—	—

Table 7: Point of Reception Noise Impact Summary - Emergency Sources

AAR ID	POR4a			POR6			POR6a			POR7			POR7a			POR8								
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
EG1	4783	33	—	—	5057	—	—	—	5025	—	—	—	6123	—	—	—	6111	—	—	—	5650	—	—	—
EG2	4782	33	—	—	5048	—	—	—	5016	—	—	—	6111	—	—	—	6100	—	—	—	5637	—	—	—
FP1	4706	38	—	—	4891	40	—	—	4859	38	—	—	5936	—	—	—	5925	—	—	—	5458	—	—	—
FP2	4710	38	—	—	4885	40	—	—	4853	38	—	—	5927	—	—	—	5915	—	—	—	5447	—	—	—

The two numbers ### represent the minimum and maximum distances for the source to the Point of Reception

Table 7: Point of Reception Noise Impact Summary - Emergency Sources

AAR ID	POR8a				POR9				POR9a				POR10				POR10a				POR11				POR11a			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
EG1	5623	—	—	—	5615	—	—	—	5588	—	—	—	5174	—	—	—	5146	—	—	—	4956	37	—	—	4927	36	—	—
EG2	5610	—	—	—	5602	—	—	—	5575	—	—	—	5160	—	—	—	5132	—	—	—	4942	37	—	—	4912	36	—	—
FP1	5431	—	—	—	5422	—	—	—	5395	—	—	—	4980	37	—	—	4952	36	—	—	4764	38	—	—	4734	37	—	—
FP2	5420	—	—	—	5410	—	—	—	5383	—	—	—	4967	37	—	—	4939	36	—	—	4750	38	—	—	4721	37	—	—

The two numbers ### represent the minimum and maximum distances for the source to the Point of Reception

Table 7: Point of Reception Noise Impact Summary - Emergency Sources

AAR ID	POR12				POR12a				POR14				POR14a				POR15				POR15a				POR16				POR16a			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
EG1	4503	38	—	—	4472	38	—	—	4317	36	—	—	4290	36	—	—	7158	—	—	—	7155	—	—	—	7118	—	—	—	7124	—	—	—
EG2	4489	38	—	—	4458	38	—	—	4302	37	—	—	4276	36	—	—	7158	—	—	—	7156	—	—	—	7118	—	—	—	7125	—	—	—
FP1	4313	40	—	—	4282	39	—	—	4135	40	—	—	4108	39	—	—	7230	—	—	—	7228	—	—	—	7193	—	—	—	7201	—	—	—
FP2	4299	40	—	—	4268	39	—	—	4120	40	—	—	4093	39	—	—	7227	—	—	—	7225	—	—	—	7190	—	—	—	7198	—	—	—

The two numbers ### represent the minimum and maximum distances for the source to the Point of Reception

Table 7: Point of Reception Noise Impact Summary - Emergency Sources

AAR ID	POR17				POR17a				POR19				POR20				POR21				POR22				POR23				POR24			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
EG1	7277	—	—	—	7250	—	—	—	11300	—	—	—	4543	36	—	—	3913	38	—	—	4840	38	—	—	4786	35	—	—	4581	36	—	—
EG2	7284	—	—	—	7257	—	—	—	11297	—	—	—	4530	36	—	—	3901	38	—	—	4826	38	—	—	4775	35	—	—	4568	36	—	—
FP1	7423	—	—	—	7396	—	—	—	11331	—	—	—	4413	39	—	—	3727	42	—	—	4648	38	—	—	4689	41	—	—	4455	38	—	—
FP2	7427	—	—	—	7400	—	—	—	11324	—	—	—	4398	39	—	—	3717	42	—	—	4634	38	—	—	4675	41	—	—	4440	38	—	—

The two numbers ### represent the minimum and maximum distances for the source to the Point of Reception

Table 7: Point of Reception Noise Impact Summary - Emergency Sources

AAR ID	POR25			
	Distance (m)	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)
EG1	4313	36	—	—
EG2	4299	37	—	—
FP1	4163	40	—	—
FP2	4147	40	—	—

Table 8: Acoustic Assessment Summary Table - Overall Sound Levels - Emergency Sources

Point of Reception ID	Description of Point of Reception	Daytime Sound Pressure Level (dBA)	Evening Sound Pressure Level (dBA)	Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit?	Daytime Performance Limit (dBA)	Evening Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit?
POR1	POR1	39	-	-	No	50	45	45	Yes
POR1a	POR1a	38	-	-	No	50	45	-	Yes
POR3	POR3	43	-	-	No	50	45	45	Yes
POR3a	POR3a	42	-	-	No	50	45	-	Yes
POR4	POR4	43	-	-	No	50	45	45	Yes
POR4a	POR4a	42	-	-	No	50	45	-	Yes
POR6	POR6	43	-	-	No	50	45	45	Yes
POR6a	POR6a	41	-	-	No	50	45	-	Yes
POR7	POR7	0	-	-	No	50	45	45	Yes
POR7a	POR7a	0	-	-	No	50	45	-	Yes
POR8	POR8	0	-	-	No	50	45	45	Yes
POR8a	POR8a	0	-	-	No	50	45	-	Yes
POR9	POR9	0	-	-	No	50	45	45	Yes
POR9a	POR9a	0	-	-	No	50	45	-	Yes
POR10	POR10	40	-	-	No	50	45	45	Yes
POR10a	POR10a	39	-	-	No	50	45	-	Yes
POR11	POR11	44	-	-	No	50	45	45	Yes
POR11a	POR11a	42	-	-	No	50	45	-	Yes
POR12	POR12	45	-	-	No	50	45	45	Yes
POR12a	POR12a	44	-	-	No	50	45	-	Yes
POR14	POR14	45	-	-	No	50	45	45	Yes
POR14a	POR14a	44	-	-	No	50	45	-	Yes
POR15	POR15	0	-	-	No	50	45	45	Yes
POR15a	POR15a	0	-	-	No	50	45	-	Yes
POR16	POR16	0	-	-	No	50	45	45	Yes
POR16a	POR16a	0	-	-	No	50	45	-	Yes
POR17	POR17	0	-	-	No	50	45	45	Yes
POR17a	POR17a	0	-	-	No	50	45	-	Yes
POR19	POR19	0	-	-	No	50	45	45	Yes
POR20	POR20	43	-	-	No	50	45	45	Yes
POR21	POR21	47	-	-	No	50	45	45	Yes
POR22	POR22	44	-	-	No	50	45	45	Yes
POR23	POR23	45	-	-	No	50	45	45	Yes
POR24	POR24	43	-	-	No	50	45	45	Yes
POR25	POR25	45	-	-	No	50	45	45	Yes

APPENDIX A. PROOF OF LEGAL NAME & CURRENT ECA

Content Copy Of Original



Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement
climatique

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0412-A2LR4V

Issue Date: September 24, 2015

New Gold Inc.
1111 Victoria Ave E
Thunder Bay, Ontario
P7C 1B7

Site Location: Various Locations
Rainy River Project
Unsurveyed Territory (Kenora Area Office) Unorganized
Area, District of Rainy River

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

DESCRIPTION SECTION

A gold mining and processing facility, consisting of the following processes and support units:

- Open pit and underground mining operations.
- Ore handling, crushing and grinding operations.
- Ore processing facility consisting of leaching and carbon-in-pulp gold adsorption, carbon stripping, electrowinning and refining operations.
- Tailings management and treatment including cyanide destruction.
- Propane fired heaters.

including the *Equipment* and any other ancillary and support processes and activities, operating at a *Facility Production Limit* of up to **32,000 tonnes of ore processed per day**, discharging to the air as described in the *Original ESDM Report*.

For the purpose of this environmental compliance approval, the following definitions apply:

1. "*Acceptable Maximum Ground Level Concentration*" means a concentration accepted by the *Ministry*, as described in the Guide to Applying for Approval (Air & Noise), for a *Compound of Concern* listed in the *Original ESDM Report* that:

(a) has no *Ministry Point of Impingement Limit* and no *Jurisdictional Screening Level*, or

(b) has a concentration at a *Point of Impingement* that exceeds the *Jurisdictional Screening Level*.

2. "*Acoustic Assessment Report*" means the report, prepared in accordance with *Publication NPC-233* and Appendix A of the *Basic Comprehensive User Guide*, by AMEC Environment & Infrastructure, dated September 2014 and signed by Mohammed Salim, P.Eng., submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility* and includes all up-dated *Acoustic Assessment Reports* as required by the Documentation Requirements conditions of this *Approval* to demonstrate continued compliance with the *Performance*

Limits following the implementation of any *Modification*.

3. "*Acoustic Assessment Summary Table*" means a table prepared in accordance with the *Basic Comprehensive User Guide* summarising the results of the *Acoustic Assessment Report*, up-dated as required by the Documentation Requirements conditions of this *Approval*.
4. "*Air Quality Monitoring Manual*" means the *Ministry* publication entitled "Operations Manual for Air Quality Monitoring in Ontario", dated March 2008, as amended.
5. "*Air Standards Manager*" means the Manager, Human Toxicology and Air Standards Section, Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Human Toxicology and Air Standards Section, Standards Development Branch, as those duties relate to the conditions of this *Approval*.
6. "*Approval*" means this entire Environmental Compliance Approval and any *Schedules* to it.
7. "*Basic Comprehensive User Guide*" means the *Ministry* document titled "Basic Comprehensive Certificates of Approval (Air) User Guide" dated March 2011, as amended.
8. "*Best Management Practices Plans*" means the documents titled "Fugitive Dust Best Management Practices Plan-Development Phase, Rev A, dated July 2014 and "Fugitive Dust Best Management Practices Plan-Operations Phase, Rev A, dated July 2014 ", as amended, prepared by AMEC Americas Limited, which describes measures to minimize dust emissions from the *Facility* and/or *Equipment*.
9. "*Company*" means New Gold Inc. that is responsible for the construction or operation of the *Facility* and includes any successors and assigns in accordance with section 19 of the *EPA*.
10. "*Compound of Concern*" means a contaminant that, based on generally available information, may be discharged to the air in a quantity from the *Facility* that:
 - (a) is non-negligible in accordance with section 26(1)4 of *O. Reg. 419/05* in comparison to the relevant *Ministry Point of Impingement Limit*; or
 - (b) if a *Ministry Point of Impingement Limit* is not available for the compound, may cause an adverse effect at a *Point of Impingement* based on generally available toxicological information.
11. "*Description Section*" means the section on page one of this *Approval* describing the *Company's* operations and the *Equipment* located at the *Facility* and specifying the *Facility Production Limit* for the *Facility*.
12. "*Director*" means a person appointed by the Minister pursuant to section 5 of the *EPA*.
13. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located.
14. "*Emission Summary Table*" means the most updated table contained in the *ESDM Report*, which is prepared in accordance with section 26 of *O. Reg. 419/05* and the *Procedure Document* listing the appropriate *Point of Impingement* concentration for each *Compound of Concern* from the *Facility* and providing comparison to the corresponding *Ministry Point of Impingement Limit* or *Maximum Concentration Level Assessment*, or *Jurisdictional Screening Level*.
15. "*Environmental Assessment Act*" means the Environmental Assessment Act, R.S.O. 1990, c.E.18, as amended.
16. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended.
17. "*Equipment*" means equipment or processes described in the *ESDM Report*, this *Approval* and in

the *Schedules* referred to herein and any other equipment or processes.

18. "*Equipment with Specific Operational Limits*" means any *Equipment* related to the thermal oxidation of waste or waste derived fuels, fume incinerators or any other *Equipment* that is specifically referenced in any published *Ministry* document that outlines specific operational guidance that must be considered by the *Director* in issuing an *Approval*.

19. "*ESDM Report*" means the most current Emission Summary and Dispersion Modelling Report that describes the *Facility*. The *ESDM Report* is based on the *Original ESDM Report*, is prepared after the issuance of this *Approval* in accordance with section 26 of *O. Reg. 419/05* and the *Procedure Document* by the *Company* or its consultant.

20. "*Facility*" means the entire operation located on the property where the *Equipment* is located.

21. "*Facility Production Limit*" means the production limit placed by the *Director* on the main product(s) or raw materials used by the *Facility*.

22. "*Jurisdictional Screening Level*" means a screening level for a *Compound of Concern* that is listed in the *Ministry* publication titled "Jurisdictional Screening Level (JSL) List, A Screening Tool for Ontario Regulation 419: Air Pollution - Local Air Quality", dated February 2008, as amended.

23. "*Log*" means the up-to-date log that is used to track all *Modifications* to the *Facility* since the date of this *Approval* as required by the Documentation Requirements conditions of this *Approval*.

24. "*Maximum Concentration Level Assessment*" means the Maximum Concentration Level Assessment for the purposes of an *Approval*, described in the *Basic Comprehensive User Guide*, prepared by a *Toxicologist* using currently available toxicological information, that demonstrates that the concentration at any *Point of Impingement* for a *Compound of Concern* that does not have a *Ministry Point of Impingement Limit* is not likely to cause an adverse effect as defined by the *EPA*.

25. "*Ministry*" means the ministry of the government of Ontario responsible for the *EPA* and its regulations and includes all officials, employees or other persons acting on its behalf.

26. "*Ministry Point of Impingement Limit*" means the applicable Standard set out in Schedule 2 or 3 of *O. Reg. 419/05* or a limit set out in the *Ministry* publication titled "Summary of Standards and Guidelines to support Ontario Regulation 419: Air Pollution - Local Air Quality (including Schedule 6 of *O. Reg. 419* on Upper Risk Thresholds)", dated April 2012, as amended.

27. "*Modification*" means any construction, alteration, extension or replacement of any plant, structure, equipment, apparatus, mechanism or thing, or alteration of a process or rate of production at the *Facility* that may discharge or alter the rate or manner of discharge of a *Compound of Concern* to the air or discharge or alter noise or vibration emissions from the *Facility*.

28. "*Noise Control Measures*" means measures to reduce the noise emission from the *Facility* and/or *Equipment* including, but not limited to silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers. It also means the noise control measures detailed in the *Acoustic Assessment Report*.

29. "*O. Reg. 419/05*" means the Ontario Regulation 419/05, Air Pollution – Local Air Quality, as amended.

30. "*Original ESDM Report*" means the Emission Summary and Dispersion Modelling Report which was prepared in accordance with section 26 of *O. Reg. 419/05* and the *Procedure Document* by AMEC Environment & Infrastructure, a division of AMEC Americas Limited and dated September 12, 2014 submitted in support of the application, and includes any changes to the report made up to the date of issuance of this *Approval*.

31. "*Performance Limits*" means the performance limits specified in Condition 3.2 of this *Approval* titled Performance Limits.

32. "*Point of Impingement*" has the same meaning as in section 2 of *O. Reg. 419/05*.

33. "*Point of Reception*" means Point of Reception as defined by *Publication NPC-300*.

34. "*Procedure Document*" means *Ministry* guidance document titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated March 2009, as amended.

35. "*Processes with Significant Environmental Aspects*" means the *Equipment* which, during regular operation, would discharge a contaminant or contaminants into the air at an amount which is not considered as negligible in accordance with section 26(1)4 of *O. Reg. 419/05* and the *Procedure Document*.

36. "*Publication NPC-207*" means the *Ministry* Publication NPC-207, "Impulse Vibration in Residential Buildings", November, 1983, as amended.

37. "*Publication NPC-233*" means the *Ministry* Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended.

38. "*Publication NPC-300*" means the *Ministry* Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August, 2013, as amended.

39. "*Schedules*" means the following schedules attached to this *Approval* and forming part of this *Approval* namely:

Schedule A - Supporting Documentation

40. "*Toxicologist*" means a qualified professional currently active in the field of risk assessment and toxicology that has a combination of formal university education, training and experience necessary to assess contaminants.

41. "*Written Summary Form*" means the electronic questionnaire form, available on the *Ministry* website, and supporting documentation, that documents the activities undertaken at the *Facility* in the previous calendar year.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL

1.1 Except as otherwise provided by this *Approval*, the *Facility* shall be designed, developed, built, operated and maintained in accordance with the terms and conditions of this *Approval* and in accordance with the following *Schedules* attached hereto:

Schedule A - Supporting Documentation

2. LIMITED OPERATIONAL FLEXIBILITY

2.1 Pursuant to section 20.6(1) of the *EPA* and subject to Conditions 2.2 and 2.3 of this *Approval*, future construction, alterations, extensions or replacements are approved in this *Approval* if the future construction, alterations, extensions or replacements are *Modifications* to the *Facility* that:

(a) are within the scope of the operations of the *Facility* as described in the *Description Section* of this *Approval*;

(b) do not result in an increase of the *Facility Production Limit* above the level specified in the *Description Section* of this *Approval*; and

(c) result in compliance with the *Performance Limits*.

2.2 Condition 2.1 does not apply to:

(a) the addition of any new *Equipment with Specific Operational Limits* or to the *Modification* of any existing *Equipment with Specific Operational Limits* at the *Facility*; or

(b) *Modifications* to the *Facility* that would be subject to the *Environmental Assessment Act*.

2.3 Condition 2.1 of this *Approval* shall expire ten (10) years from the date of this *Approval*, unless this *Approval* is revoked prior to the expiry date. The *Company* may apply for renewal of Condition 2.1 of this *Approval* by including an *ESDM Report* and an *Acoustic Assessment Report* that describes the *Facility* as of the date of the renewal application.

3. REQUEST FOR MAXIMUM CONCENTRATION LEVEL ASSESSMENT AND PERFORMANCE LIMITS

3.1 REQUEST FOR MAXIMUM CONCENTRATION LEVEL ASSESSMENT

3.1.1 If the *Company* proposes to make a *Modification* to the *Facility*, the *Company* shall determine if the proposed *Modification* will result in:

(a) a discharge of a *Compound of Concern* that was not previously discharged; or

(b) an increase in the concentration at a *Point of Impingement* of a *Compound of Concern*.

3.1.2 If a proposed *Modification* mentioned in Condition 3.1.1 will result in the discharge of a *Compound of Concern* that was not previously discharged, the *Company* shall submit a *Maximum Concentration Level Assessment* to the *Director* for review by the *Air Standards Manager* in the following circumstances:

(a) The *Compound of Concern* does not have a *Ministry Point of Impingement Limit* or a *Jurisdictional Screening Level*.

(b) The *Compound of Concern* does not have a *Ministry Point of Impingement Limit* and the concentration at a *Point of Impingement* will exceed the *Jurisdictional Screening Level*.

(c) Prior to the proposed *Modification*, a contaminant was discharged in a negligible amount and the proposed *Modification* will result in the discharge of the contaminant being considered a *Compound of Concern* and the *Compound of Concern* does not have a *Ministry Point of Impingement Limit* or a *Jurisdictional Screening Level*.

(d) Prior to the proposed *Modification*, a contaminant was discharged in a negligible amount and the proposed *Modification* will result in the discharge of the contaminant being considered a *Compound of Concern*. Additionally, the *Compound of Concern* does not have a *Ministry Point of Impingement Limit* and the concentration at a *Point of Impingement* will exceed the *Jurisdictional Screening Level*.

3.1.3 If a proposed *Modification* mentioned in Condition 3.1.1 will result in an increase in the concentration at a *Point of Impingement* of a *Compound of Concern*, the *Company* shall submit a *Maximum Concentration Level Assessment* to the *Director* for review by the *Air Standards Manager* in the following circumstances:

(a) The *Compound of Concern* does not have a *Ministry Point of Impingement Limit* or a *Jurisdictional*

Screening Level and the concentration at a *Point of Impingement* will exceed the *Acceptable Maximum Ground Level Concentration*.

(b) The *Compound of Concern* does not have a *Ministry Point of Impingement Limit* or a *Jurisdictional Screening Level* and the concentration at a *Point of Impingement* will exceed the most recently accepted *Maximum Concentration Level Assessment* submitted under Condition 3.1.2 or this Condition.

(c) The *Compound of Concern* does not have a *Ministry Point of Impingement Limit* and the concentration at a *Point of Impingement* will exceed the *Jurisdictional Screening Level* and the *Acceptable Maximum Ground Level Concentration*.

(d) The *Compound of Concern* does not have a *Ministry Point of Impingement Limit* and the concentration at a *Point of Impingement* will exceed the *Jurisdictional Screening Level* and the most recently accepted *Maximum Concentration Level Assessment* submitted under Condition 3.1.2 or this Condition.

(e) The *Compound of Concern* does not have a *Ministry Point of Impingement Limit*, *Acceptable Maximum Ground Level Concentration* or a *Maximum Concentration Level Assessment* and the concentration at a *Point of Impingement* will exceed the *Jurisdictional Screening Level*.

3.1.4 Subject to the Operational Flexibility set out in Condition 2 of this *Approval*, the *Company* may make the *Modification* if the submission of a *Maximum Concentration Level Assessment* under Condition 3.1.2 or 3.1.3 is not required.

3.1.5 A *Company* that is required to submit an assessment under Condition 3.1.2 or 3.1.3 shall submit the assessment at least thirty (30) days before the proposed *Modification* occurs.

3.1.6 The *Ministry* shall provide to the *Company* written confirmation of the receipt of the assessment under Condition 3.1.2 or 3.1.3.

3.1.7 If an assessment is submitted under Condition 3.1.2 or 3.1.3, the *Company* shall not modify the *Facility* unless the *Ministry* accepts the assessment.

3.1.8 If the *Ministry* notifies the *Company* that it does not accept the assessment submitted under Condition 3.1.2 or 3.1.3, the *Company* shall:

(a) revise and resubmit the assessment; or

(b) notify the *Ministry* that the *Company* will not be modifying the *Facility*.

3.1.9 The re-submission under Condition 3.1.8 (a) is considered by the *Ministry* as a new submission.

3.2. PERFORMANCE LIMITS

3.2.1 Subject to Condition 3.2.2, the *Company* shall, at all times, ensure that all *Equipment* that is a source of a *Compound of Concern* is operated to comply with the following *Performance Limits*:

(a) for a *Compound of Concern* that has a *Ministry Point of Impingement Limit*, the maximum concentration of that *Compound of Concern* at any *Point of Impingement* shall not exceed the corresponding *Ministry Point of Impingement Limit*;

(b) for a *Compound of Concern* that has an *Acceptable Maximum Ground Level Concentration* and no *Maximum Concentration Level Assessment*, the maximum concentration of that *Compound of Concern* at any *Point of Impingement* shall not exceed the corresponding *Acceptable Maximum Ground Level Concentration*; and

(c) for a *Compound of Concern* that has a *Maximum Concentration Level Assessment*, the maximum concentration of that *Compound of Concern* at any *Point of Impingement* shall not exceed the most

recently accepted corresponding *Maximum Concentration Level Assessment*.

3.2.2 If the *Company* has modified the *Facility* and was not required to submit a *Maximum Concentration Level Assessment* with respect to a *Compound of Concern* under Condition 3.1.2 or 3.1.3, the *Company* shall, at all times, ensure that all *Equipment* that is a source of the *Compound of Concern* is operated such that the maximum concentration of the *Compound of Concern* shall not exceed the concentration listed for the *Compound of Concern* in the most recent version of the *ESDM Report*.

3.2.3 The *Company* shall:

(a) at all times, ensure that the noise emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-300*; and

(b) ensure that the *Noise Control Measures* are properly maintained and continue to provide the acoustical performance outlined in the *Acoustic Assessment Report*.

3.2.4 The *Company* shall, at all times, ensure that the vibration emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-207*.

3.2.5 The *Company* shall, at all times, operate any *Equipment with Specific Operational Limits* approved by this *Approval* in accordance with the *Original ESDM Report* and Conditions in this *Approval*.

4. DOCUMENTATION REQUIREMENTS

4.1 The *Company* shall, at all times, maintain documentation that describes the current operations of the *Facility*, including but not limited to:

(a) an *ESDM Report* that demonstrates compliance with the *Performance Limits* for the *Facility*;

(b) an *Acoustic Assessment Report* that demonstrates compliance with the *Performance Limits* for the *Facility*;

(c) an up-to-date *Log* that describes each *Modification* to the *Facility*; and

(d) a record of the changes to the *ESDM Report* and the *Acoustic Assessment Report* that documents how each *Modification* is in compliance with the *Performance Limits*.

4.2 The *Company* shall make the *Emission Summary Table* and *Acoustic Assessment Summary Table* available for examination by any person, without charge, by making it available during regular business hours at the *Facility* and by making copies available by letter or email, as requested by any person, within 15 days after the person requests it.

4.3 Subject to Condition 4.5, the *Company* shall prepare and complete no later than March 31 of each year documentation that describes the activities undertaken at the *Facility* in the previous calendar year, including but not limited to:

(a) a list of all *Compounds of Concern* for which a *Maximum Concentration Level Assessment* was submitted to the *Director* for review by the *Air Standards Manager* pursuant to Condition 3.1.2 or 3.1.3 of this *Approval*;

(b) if the *Company* has modified the *Facility* and was not required to submit a *Maximum Concentration Level Assessment* with respect to a *Compound of Concern* under Condition 3.1.2 or 3.1.3, a list and concentration level of all such *Compounds of Concern*;

(c) a review of any changes to *Ministry Point of Impingement Limits* that affect any *Compounds of*

Concern emitted from the *Facility*; and

(d) a table of the changes in the emission rate of any *Compound of Concern* and the resultant increase or decrease in the *Point of Impingement* concentration reported in the *ESDM Report*.

4.4 Subject to Condition 4.5, the *Company* shall, at all times, maintain the documentation described in Condition 4.3.

4.5 Conditions 4.3 and 4.4 do not apply if Condition 2.1 has expired.

4.6 The *Company* shall, within three (3) months after the expiry of Condition 2.1 of this *Approval*, update the *ESDM Report* and the *Acoustic Assessment Report* such that they describe the *Facility* as it was at the time that Condition 2.1 of this *Approval* expired.

5. REPORTING REQUIREMENTS

5.1 Subject to Condition 5.2, the *Company* shall provide the *Director* no later than March 31 of each year, a *Written Summary Form* to be submitted through the *Ministry's* website that shall include the following:

(a) a declaration of whether the *Facility* was in compliance with section 9 of the *EPA, O. Reg. 419/05* and the conditions of this *Approval*;

(b) a summary of each *Modification* satisfying Condition 2.1 (a) and (b) that took place in the previous calendar year that resulted in a change in the previously calculated concentration at a *Point of Impingement* for any *Compound of Concern* or resulted in a change in the sound levels reported in the *Acoustic Assessment Summary Table* at any *Point of Reception*.

5.2 Condition 5.1 does not apply if Condition 2.1 has expired.

6. OPERATION AND MAINTENANCE

6.1 The *Company* shall prepare and implement, not later than three (3) months prior to the operation of *Processes with Significant Environmental Aspects*, maintenance programs for all *Processes with Significant Environmental Aspects*, which shall specify as a minimum:

(a) frequency of inspections and scheduled preventative maintenance;

(b) procedures to prevent upset conditions;

(c) procedures to minimize all fugitive emissions;

(d) procedures to prevent and/or minimize odorous emissions;

(e) procedures to prevent and/or minimize noise emissions; and

(f) procedures for record keeping activities relating to the operation and maintenance programs.

6.2 The *Company* shall ensure that all *Processes with Significant Environmental Aspects* are operated and maintained at all times in accordance with this *Approval*, the operating procedures and maintenance programs.

7. COMPLAINTS RECORDING PROCEDURE

7.1 If at any time, the *Company* receives any environmental complaints from the public regarding the operation of the *Equipment* approved by this *Approval*, the *Company* shall respond to these complaints according to the following procedure:

(a) the *Company* shall record and number each complaint, either electronically or in a log book, and shall include the following information: the time and date of the complaint and incident to which the

complaint relates, the nature of the complaint, wind direction at the time and date of the incident to which the complaint relates and, if known, the address of the complainant;

(b) the *Company*, upon notification of a complaint, shall initiate appropriate steps to determine all possible causes of the complaint, and shall proceed to take the necessary actions to appropriately deal with the cause of the subject matter of the complaint; and

(c) the *Company* shall complete and retain on-site a report written within one (1) week of the complaint date, listing the actions taken to appropriately deal with the cause of the subject matter of the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents.

7.2. The *Company* shall notify the *District Manager*, in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:

(a) a description of the nature of the complaint;

(b) the time, date and location of the incident;

(c) the wind direction and other weather conditions at the time of the incident;

(d) the name(s) of *Company* personnel responsible for handling the incident; and

(e) a description of operating conditions, including any upsets, at the time of the complaint.

8. RECORD KEEPING REQUIREMENTS

8.1 Any information requested by any employee in or agent of the *Ministry* concerning the *Facility* and its operation under this *Approval*, including, but not limited to, any records required to be kept by this *Approval*, shall be provided to the employee in or agent of the *Ministry*, upon request, in a timely manner.

8.2 The *Company* shall retain, for a minimum of five (5) years from the date of their creation, except as noted below, all reports, records and information described in this *Approval* and shall include but not be limited to:

(a) If the *Company* has updated the *ESDM Report* in order to comply with Condition 4.1(a) of this *Approval*, a copy of each new version of the *ESDM Report*;

(b) If the *Company* has updated the *Acoustic Assessment Report*, in order to comply with Condition 4.1(b) of this *Approval*, a copy of each new version of the *Acoustic Assessment Report*;

(c) supporting information used in the emission rate calculations performed in the *ESDM Reports* and *Acoustic Assessment Reports* to document compliance with the *Performance Limits*(superseded information must be retained for a period of three (3) years after *Modification*);

(d) the *Log* that describes each *Modification* to the *Facility*;

(e) all documentation prepared in accordance with Condition 4.3 of this *Approval*;

(f) copies of any *Written Summary Forms* provided to the *Ministry* under Condition 5.1 of this *Approval*;

(g) the operating procedures and maintenance programs, including records on the maintenance, repair and inspection of the *Equipment* related to all *Processes with Significant Environmental Aspects*;

(h) the complaints recording procedure, including records related to all environmental complaints made by the public as required by Condition 7.1 of this *Approval*;

(i) records related to the prevention and control measures implemented as required by the section titled "Fugitive Emissions Control" of this *Approval*;and

(j) records related to ambient air monitoring program as required by the section titled "Ambient Air Monitoring" of this *Approval*.

9. FUGITIVE EMISSIONS CONTROL

9.1 The *Company* shall finalize the *Best Management Practices Plans* for the control of fugitive dust emissions, in consultation with the *District Manager*. Upon acceptance of the *Best Management Practices Plans* by the *District Manager*, the *Company* shall implement the *Best Management Practices Plans* within three (3) months of the commencement of the development and operation phases of the project.

Documentation Requirements - *Best Management Practices Plan*

9.2 The *Company* shall record and retain such records, each time a specific preventative and control measure described in the *Best Management Practices Plans* is implemented. The *Company* shall record, as a minimum:

- (a) the date when each emission control measure is implemented, including a description of the control measure;
- (b) the date when each new preventative measure or operating procedure to minimize emissions is implemented, including a description of the preventative measure or operating procedure; and
- (c) the date, time of commencement, and time of completion of each periodic activity conducted to minimize emissions, including a description of the preventative measure/procedure and the name of the individual performing the periodic activity.

10. AMBIENT AIR MONITORING

10.1 The *Company* shall carry out and maintain an ambient air monitoring program for the development and operation phases of the *Facility* in accordance with the *Air Quality Monitoring Manual* at locations agreed to by the *District Manager* and the *Company*, for the measurement of contaminants requested by the *District Manager* including suspended particulate matter, metal contaminants and any other contaminant(s) requested by the *District Manager*, by methods and equipment accepted by the *District Manager*. The *Company* shall:

- (a) submit a detailed plan of the ambient air monitoring program for the development and operation phases in accordance with the *Air Quality Monitoring Manual* to the *District Manager* within a time period acceptable to the *District Manager*, and finalize the monitoring program in consultation with the *District Manager*;
- (b) implement the ambient air monitoring program within a time period acceptable to the *District Manager*, after the program has been accepted by the *District Manager*; and
- (c) submit the ambient air monitoring data and summary reports on the ambient air quality monitoring program as per the requirements of the *Air Quality Monitoring Manual* to the *District Manager*, or on an alternate frequency acceptable to the *District Manager*.

10.2 The ambient air monitoring program would be subject to periodic review and may be amended in consultation with the *District Manager*.

11. REVOCATION OF PREVIOUS APPROVALS

11.1 This *Approval* replaces and revokes all Certificates of Approval (Air) issued under section 9

EPA and Environmental Compliance Approvals issued under Part II.1 *EPA* to the *Facility* in regards to the activities mentioned in subsection 9(1) of the *EPA* and dated prior to the date of this *Approval*.

SCHEDULE A

Supporting Documentation

- (a) Application for Approval (Air & Noise), dated July 23, 2014, signed by Kyle L. Stanfied and submitted by the *Company*;
- (b) Emission Summary and Dispersion Modelling Report, prepared by AMEC Environment & Infrastructure, a division of AMEC Americas Limited and dated September 12, 2014;
- (c) Updated air emissions and modelling information provided by AMEC Environment & Infrastructure, a division of AMEC Americas Limited and dated March 27, 2015 and April 14, 2015;
- (d) Acoustic Assessment Report, prepared by AMEC Environment & Infrastructure, dated September 2014 and signed by Mohammed Salim, P.Eng.

The reasons for the imposition of these terms and conditions are as follows:

GENERAL

1. Condition No. 1 is included to require the *Approval* holder to build, operate and maintain the *Facility* in accordance with the Supporting Documentation in Schedule A considered by the *Director* in issuing this *Approval*.

LIMITED OPERATIONAL FLEXIBILITY, REQUEST FOR *MAXIMUM CONCENTRATION LEVEL ASSESSMENT AND PERFORMANCE LIMITS*

2. Conditions No. 2 and 3 are included to limit and define the *Modifications* permitted by this *Approval*, and to set out the circumstances in which the *Company* shall submit a *Maximum Concentration Level Assessment* prior to making *Modifications*. The holder of the *Approval* is approved for operational flexibility for the *Facility* that is consistent with the description of the operations included with the application up to the *Facility Production Limit*. In return for the operational flexibility, the *Approval* places performance based limits that cannot be exceeded under the terms of this *Approval*. *Approval* holders will still have to obtain other relevant approvals required to operate the *Facility*, including requirements under other environmental legislation such as the *Environmental Assessment Act*.

DOCUMENTATION REQUIREMENTS

3. Condition No. 4 is included to require the *Company* to maintain ongoing documentation that demonstrates compliance with the *Performance Limits* of this *Approval* and allows the *Ministry* to monitor on-going compliance with these *Performance Limits*. The *Company* is required to have an up to date *ESDM Report* and *Acoustic Assessment Report* that describe the *Facility* at all times and make the *Emission Summary Table* and *Acoustic Assessment Summary Table* from these reports available to the public on an ongoing basis in order to maintain public communication with regard to the emissions from the *Facility*.

REPORTING REQUIREMENTS

4. Condition No. 5 is included to require the *Company* to provide a yearly *Written Summary Form* to

the *Ministry*, to assist the *Ministry* with the review of the site's compliance with the *EPA*, the regulations and this *Approval*.

OPERATION AND MAINTENANCE

5. Condition No. 6 is included to require the *Company* to properly operate and maintain the *Processes with Significant Environmental Aspects* to minimize the impact to the environment from these processes.

COMPLAINTS RECORDING PROCEDURE

6. Condition No. 7 is included to require the *Company* to respond to any environmental complaints regarding the operation of the *Equipment*, according to a procedure that includes methods for preventing recurrence of similar incidents and a requirement to prepare and retain a written report.

RECORD KEEPING REQUIREMENTS

7. Condition No. 8 is included to require the *Company* to retain all documentation related to this *Approval* and provide access to employees in or agents of the *Ministry*, upon request, so that the *Ministry* can determine if a more detailed review of compliance with the *Performance Limits* is necessary.

FUGITIVE EMISSIONS CONTROL

8. Condition No. 9 is included to emphasize that the *Equipment* and *Facility* must be maintained and operated in accordance with a procedure that will result in compliance with the *EPA*, *Regulation 419/05* and this *Approval* and to require the *Company* to keep records and to provide information to staff of the *Ministry* so that compliance with the *EPA*, *Regulation 419/05* and this *Approval* may be verified.

AMBIENT AIR MONITORING

9. Condition No. 10 is included to assist the *Ministry* in gathering information on ambient air concentrations of contaminants near the *Facility*, to document overall community exposure from all sources.

REVOCAION OF PREVIOUS APPROVALS

10. Condition No. 11 is included to identify that this *Approval* replaces all Section 9 Certificate(s) of Approval and Part II.1 Approvals in regards to the activities mentioned in subsection 9(1) of the *EPA* and dated prior to the date of this *Approval*.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 8567-9ZXG8U issued on September 1, 2015

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the
purposes of Part II.1 of the
Environmental Protection Act
Ministry of the Environment and
Climate Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 24th day of September,
2015

Ian Greason, P.Eng.
Director
appointed for the purposes of Part II.1 of
the *Environmental Protection Act*

SA/
c: Area Manager, MOECC Kenora
c: District Manager, MOECC Thunder Bay - District
Tony van der Vooren, AMEC

Content Copy Of Original



Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

AMENDMENT TO ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0412-A2LR4V

Notice No. 1

Issue Date: July 18, 2022

New Gold Inc.
5967 11/71 Hwy
Post Office Box, No. 5
Emo, Ontario
P0W 1E0

Site Location: Rainy River Mine
5967 11/71 Hwy
Emo Township, District of Rainy River
P0W 1E0

You are hereby notified that I have amended Approval No. 0412-A2LR4V issued on September 24, 2015 for changing the Facility Production Limit , as follows:

The following Description Section is revoked:

A gold mining and processing facility, consisting of the following processes and support units:

- Open pit and underground mining operations.
- Ore handling, crushing and grinding operations.
- Ore processing facility consisting of leaching and carbon-in-pulp gold adsorption, carbon stripping, electrowinning and refining operations.
- Tailings management and treatment including cyanide destruction.
- Propane fired heaters.

including the *Equipment* and any other ancillary and support processes and activities, operating at a *Facility Production Limit* of up to **32,000 tonnes of ore processed per day** , discharging to the air as described in the *Original ESDM Report*.

and replaced with the following Description Section:

A gold mining and processing facility, consisting of the following processes and support units:

- Open pit and underground mining operations.
- Ore handling, crushing and grinding operations.
- Ore processing facility consisting of leaching and carbon-in-pulp gold adsorption,

carbon stripping, electrowinning and refining operations.

- Tailings management and treatment including cyanide destruction.
- Propane fired heaters.

including the *Equipment* and any other ancillary and support processes and activities, operating at a *Facility Production Limit* of up to **32,400 tonnes of ore processed per day**, discharging to the air as described in the *Original ESDM Report*.

The following Definition is revoked:

2. "*Acoustic Assessment Report*" means the report, prepared in accordance with *Publication NPC-233* and Appendix A of the *Basic Comprehensive User Guide*, by AMEC Environment & Infrastructure, dated September 2014 and signed by Mohammed Salim, P.Eng., submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility* and includes all up-dated *Acoustic Assessment Reports* as required by the Documentation Requirements conditions of this *Approval* to demonstrate continued compliance with the *Performance Limits* following the implementation of any *Modification*.

and replaced with the following Definition:

2. "*Acoustic Assessment Report*" means the report, prepared in accordance with *Publication NPC-233* and Appendix A of the *Basic Comprehensive User Guide*, by Trinity Consultants, dated July 5, 2022 and signed by Shubham Shringi, submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility* and includes all up-dated *Acoustic Assessment Reports* as required by the Documentation Requirements conditions of this *Approval* to demonstrate continued compliance with the *Performance Limits* following the implementation of any *Modification*.

The following Schedule is revoked:

SCHEDULE A

Supporting Documentation

(a) Application for Approval (Air & Noise), dated July 23, 2014, signed by Kyle L. Stanfield and submitted by the *Company*;

(b) Emission Summary and Dispersion Modelling Report, prepared by AMEC Environment & Infrastructure, a division of AMEC Americas Limited and dated September 12, 2014;

(c) Updated air emissions and modelling information provided by AMEC Environment &

Infrastructure, a division of AMEC Americas Limited and dated March 27, 2015 and April 14, 2015;

(d) Acoustic Assessment Report, prepared by AMEC Environment & Infrastructure, dated September 2014 and signed by Mohammed Salim, P.Eng.

and replaced with the following Schedule:

SCHEDULE A

Supporting Documentation

(a) Application for Approval (Air & Noise), dated July 23, 2014, signed by Kyle L. Stanfield and submitted by the *C ompany*;

(b) Emission Summary and Dispersion Modelling Report, prepared by AMEC Environment & Infrastructure, a division of AMEC Americas Limited and dated September 12, 2014;

(c) Updated air emissions and modelling information provided by AMEC Environment & Infrastructure, a division of AMEC Americas Limited and dated March 27, 2015 and April 14, 2015;

(d) Acoustic Assessment Report, prepared by Trinity Consultants, dated July 5, 2022 and signed by Shubham Shringi.

All other Terms and Conditions in Approval No. 0412-A2LR4V remain unchanged.

All in accordance with:

The application for amendment submitted by New Gold Inc., dated August 5, 2021 and signed by Garnet Cornell

Email dated April 29, 2022 from Karina Kenigsberg, Trinity Consultants with information supporting the requested amendment.

This Notice shall constitute part of the approval issued under Approval No. 0412-A2LR4V dated September 24, 2015

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land Tribunal and in accordance with Section 47 of

the *Environmental Bill of Rights*, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

and
The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

and
The Director appointed for the purposes of
Part II.1 of the *Environmental Protection Act*
Ministry of the Environment, Conservation
and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.gov.on.ca**

This instrument is subject to Section 38 of the *Environmental Bill of Rights*, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the *Environmental Protection Act*.

DATED AT TORONTO this 18th day of July,
2022

A handwritten signature in cursive script that reads "Nancy Orpana".

Nancy E Orpana, P.Eng.
Director
appointed for the purposes of Part
II.1 of the *Environmental Protection
Act*

SA/

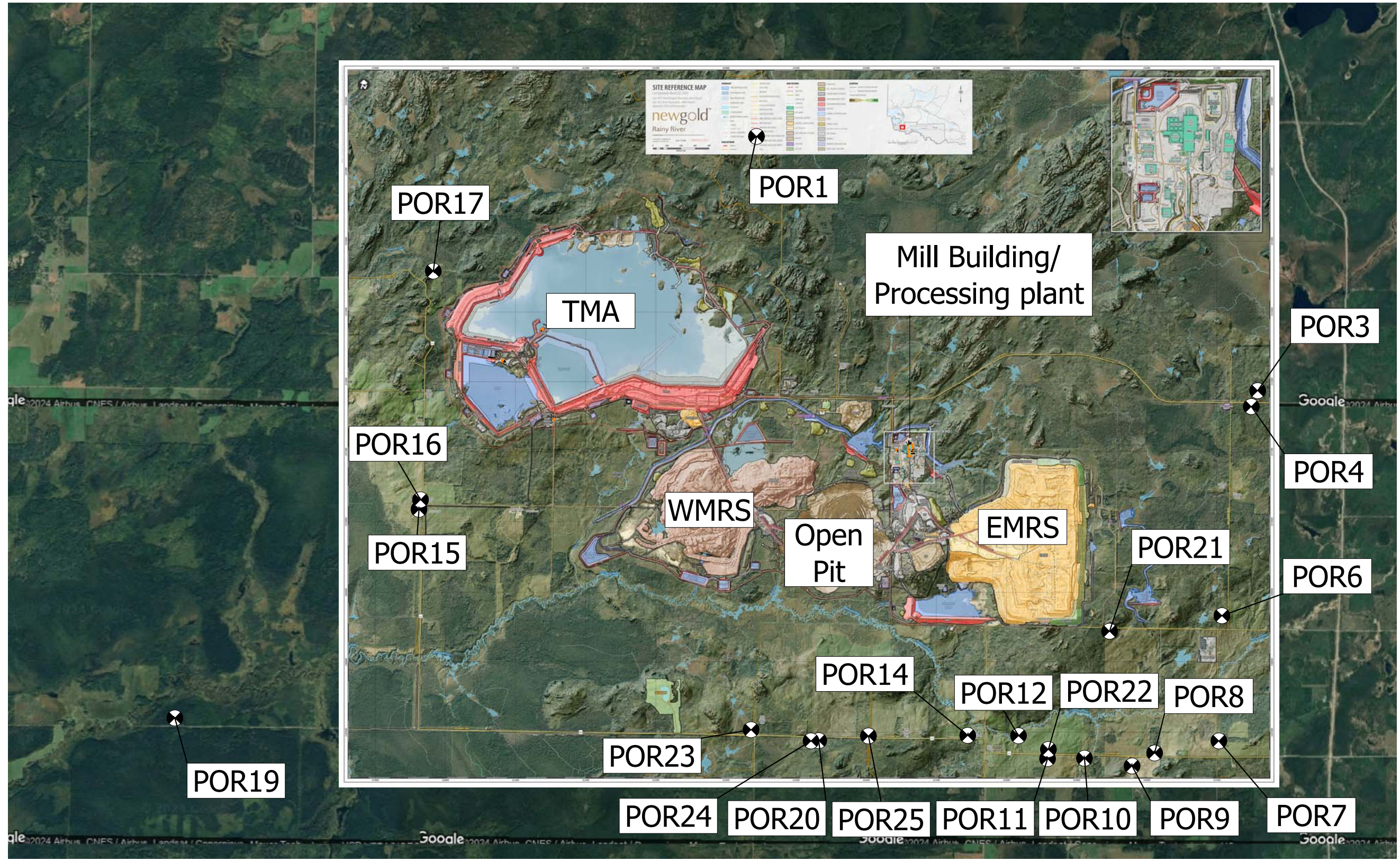
c: Area Manager, MECP Kenora

c: District Manager, MECP Thunder Bay - District
Karina Kenigsberg, Trinity Consultants

APPENDIX B. SITE PLANS AND ZONING INFORMATION




416000 418000 420000 422000 424000 426000 428000 430000 432000

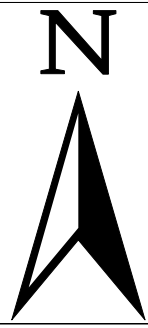
Figure 1
Site Location Plan



Project Site
New Gold - Rainy River Mine
Chaple, Ontario

Legend

-  Building
-  Cylinder
-  Receiver



Date	March 2024
Project Number	237201.0011
Drawn By:	M.K.



416000 418000 420000 422000 424000 426000 428000 430000 432000

5416000
5414000
5412000
5410000
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5416000
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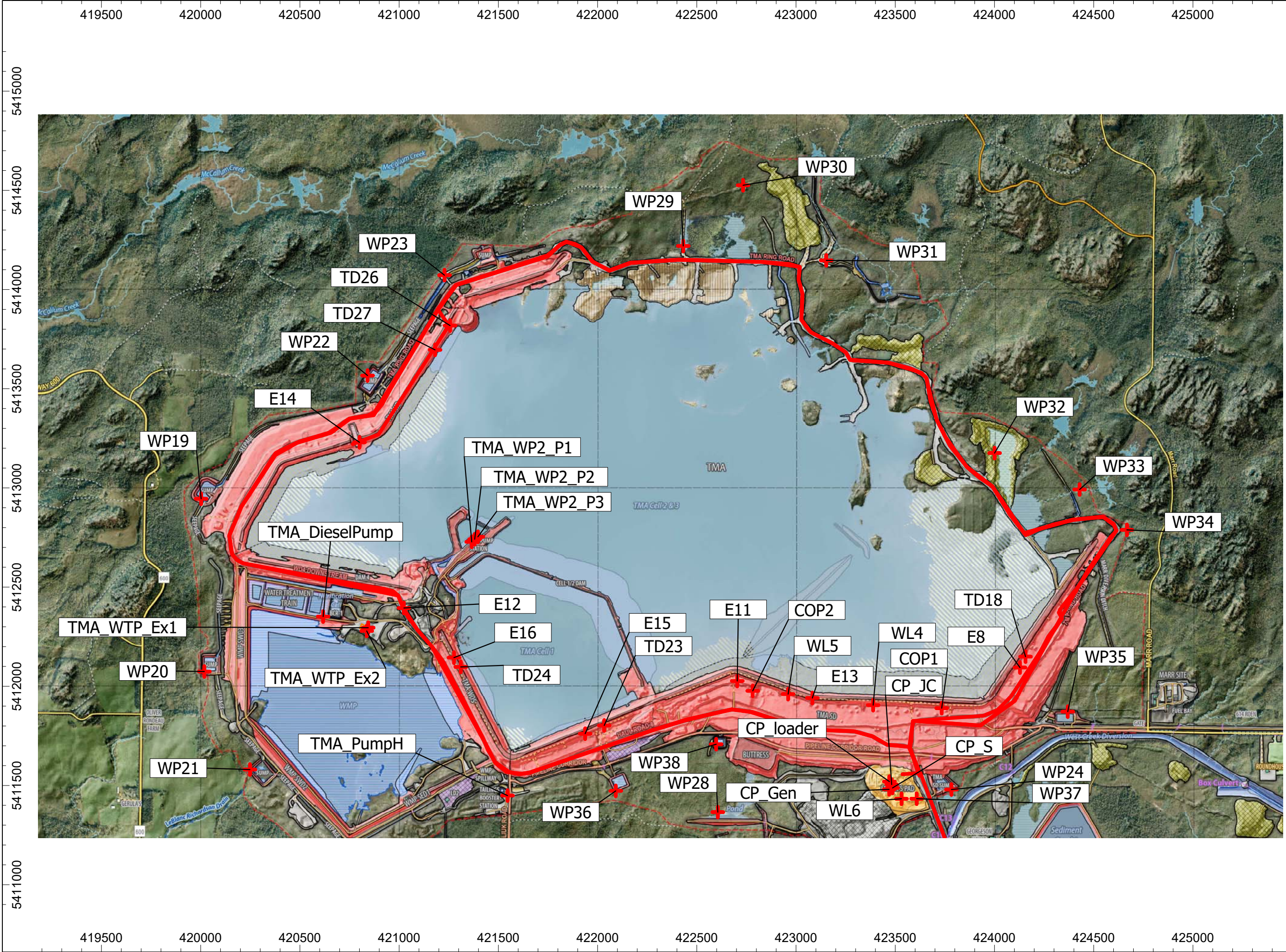


Figure 2a
Source Location Plan
TMA Area

Project Site
 New Gold - Rainy River Mine
 Chapple, Ontario

Legend

- + Point Source
- Line Source
- Area Source
- vert. Area Source
- Building
- Cylinder



Date
 March 2024

Project Number
 237201.0133

Drawn By:
 M.K.

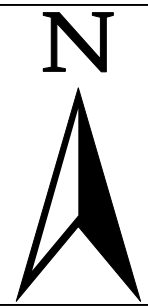


Figure 2b
Source Location Plan
WMRS Area

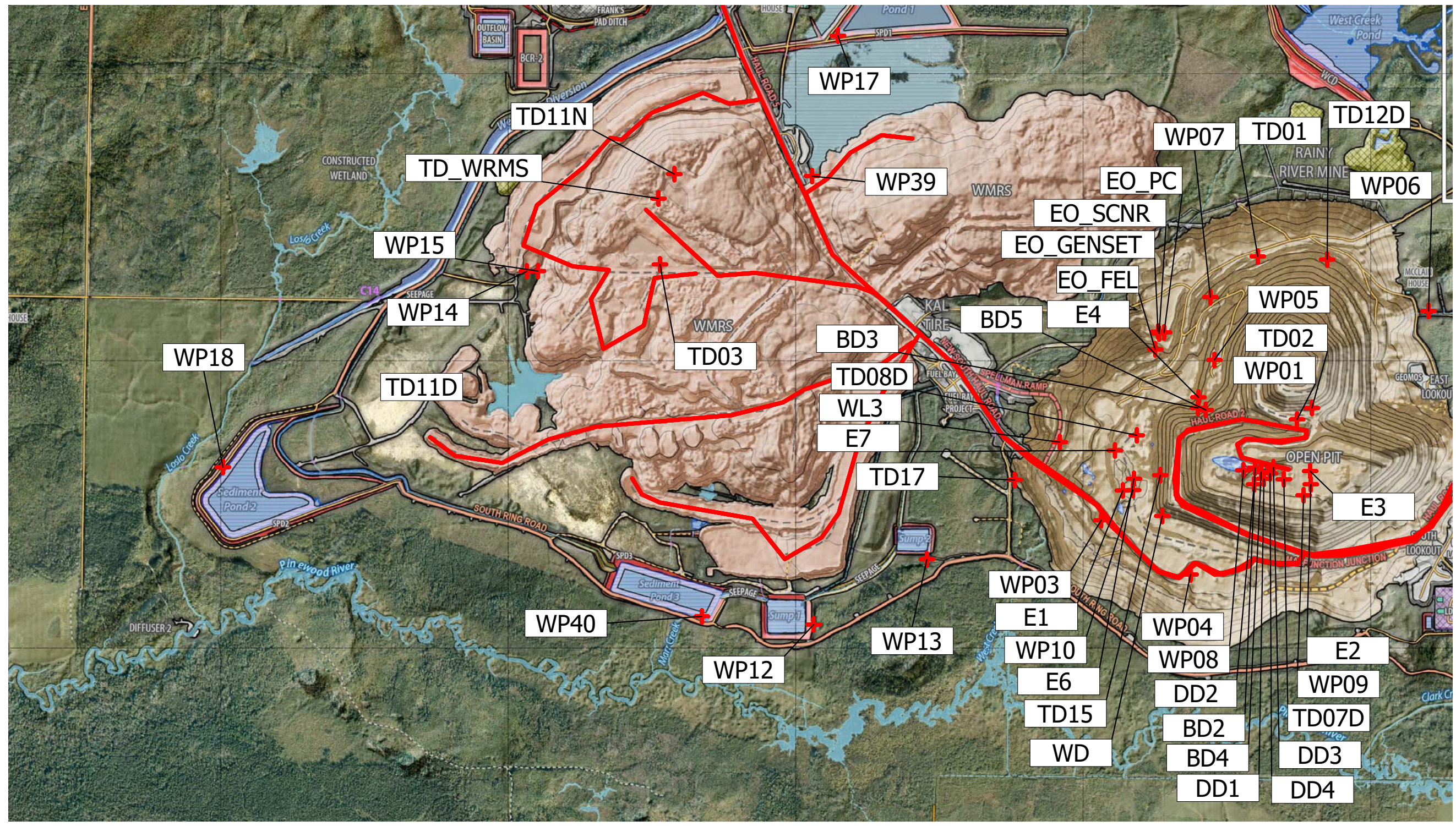
Project Site
 New Gold - Rainy River Mine
 Chapple, Ontario

Legend

- + Point Source
- Line Source
- Area Source
- vert. Area Source
- Building
- Cylinder



Date	March 2024
Project Number	237201.0133
Drawn By:	M.K.



421500 422000 422500 423000 423500 424000 424500 425000 425500 426000

5411000
5410500
5410000
5409500
5409000
5408500

5411000
5410500
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5409500
5409000
5408500

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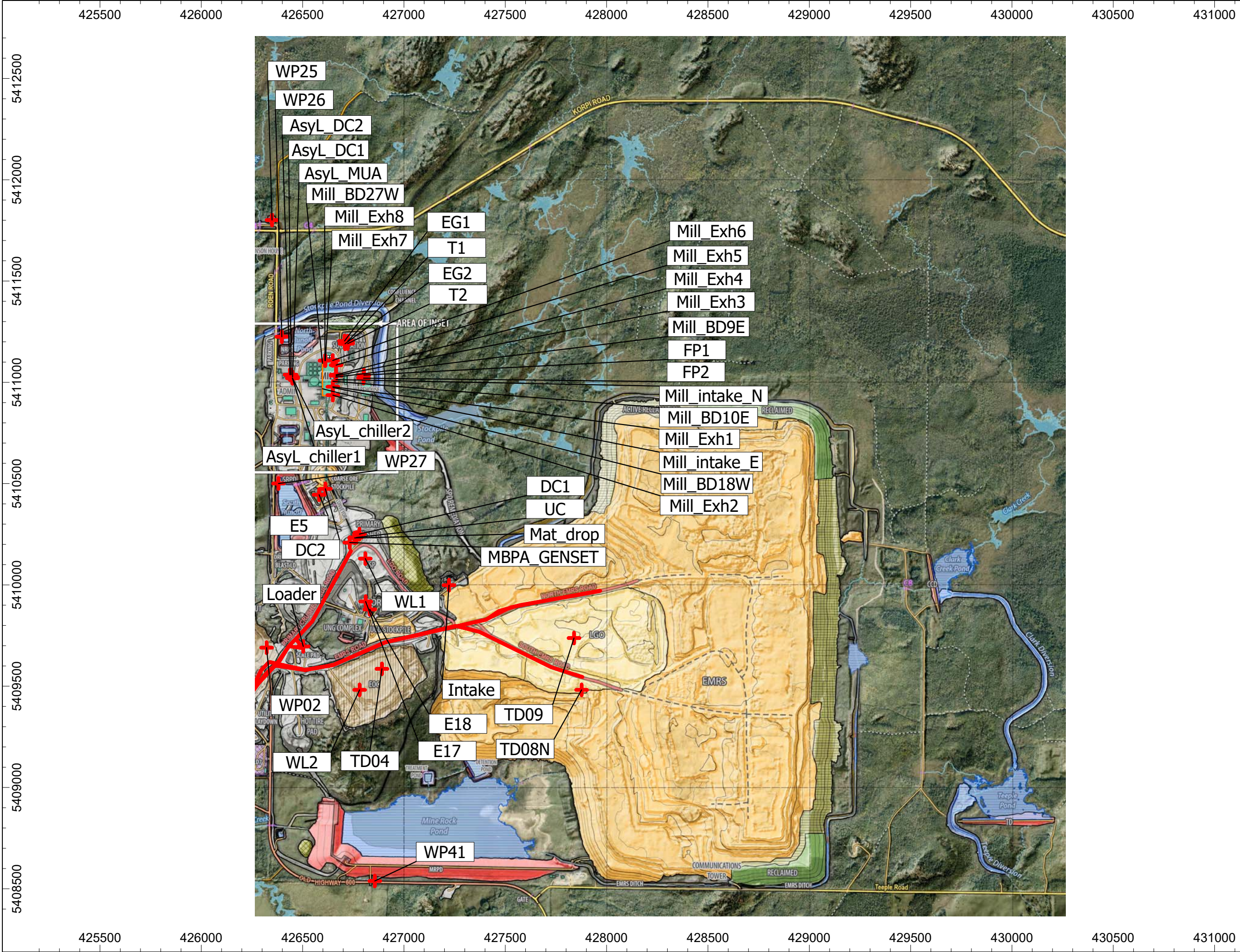


Figure 2c
Source Location Plan
Mill Building
Processig Plant
EMRS Area

Project Site
 New Gold - Rainy River Mine
 Chapple, Ontario

Legend

- + Point Source
- Line Source
- Area Source
- vert. Area Source
- Building
- Cylinder



Date	March 2024
Project Number	237201.0133
Drawn By:	M.K.



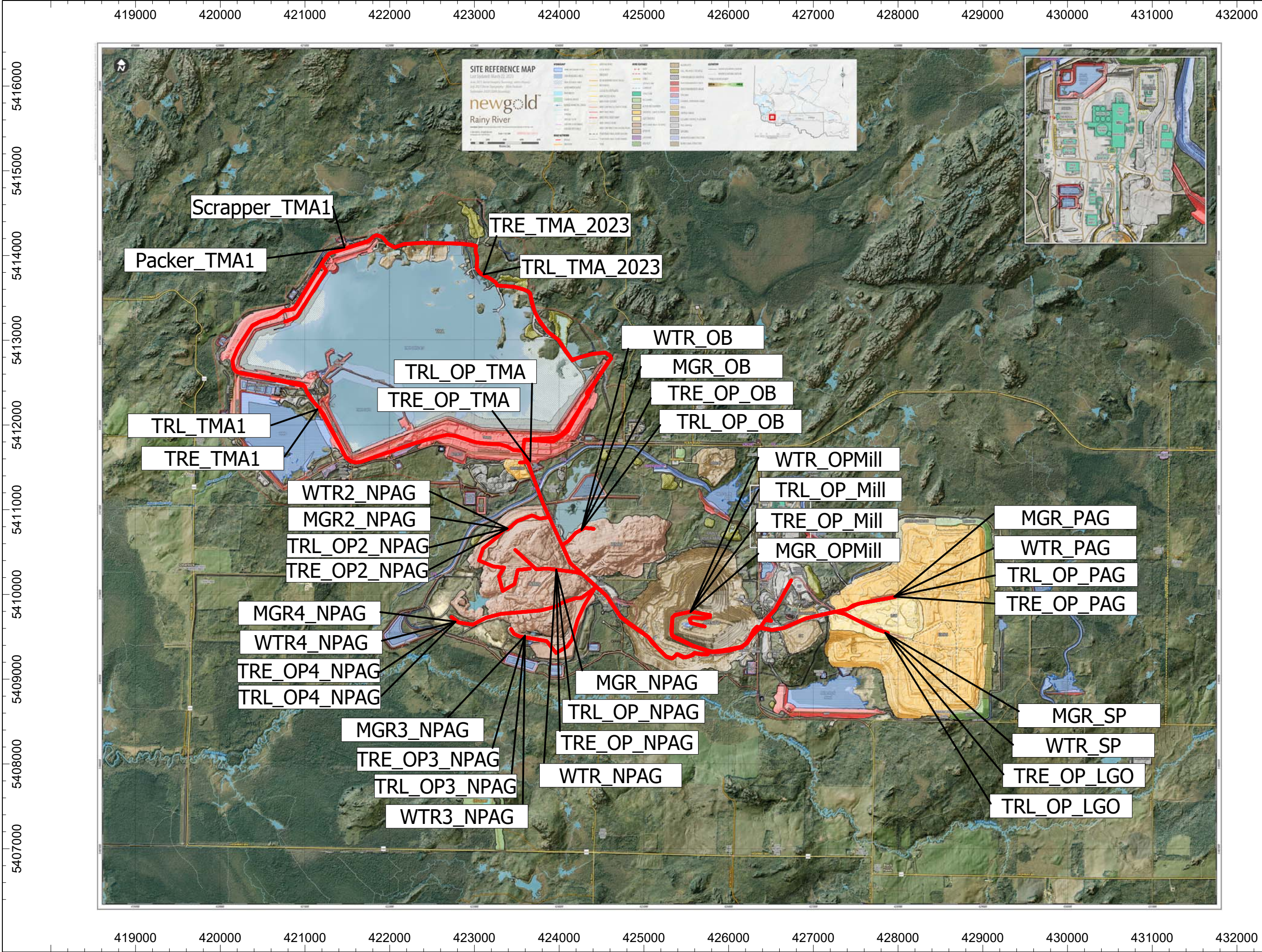

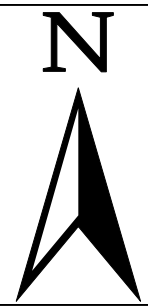


Figure 2d
Source Location Plan
Truck routes

Project Site
 New Gold - Rainy River Mine
 Chapple, Ontario

Legend

 Line Source



Date March 2024
Project Number 237201.0133
Drawn By: M.K.



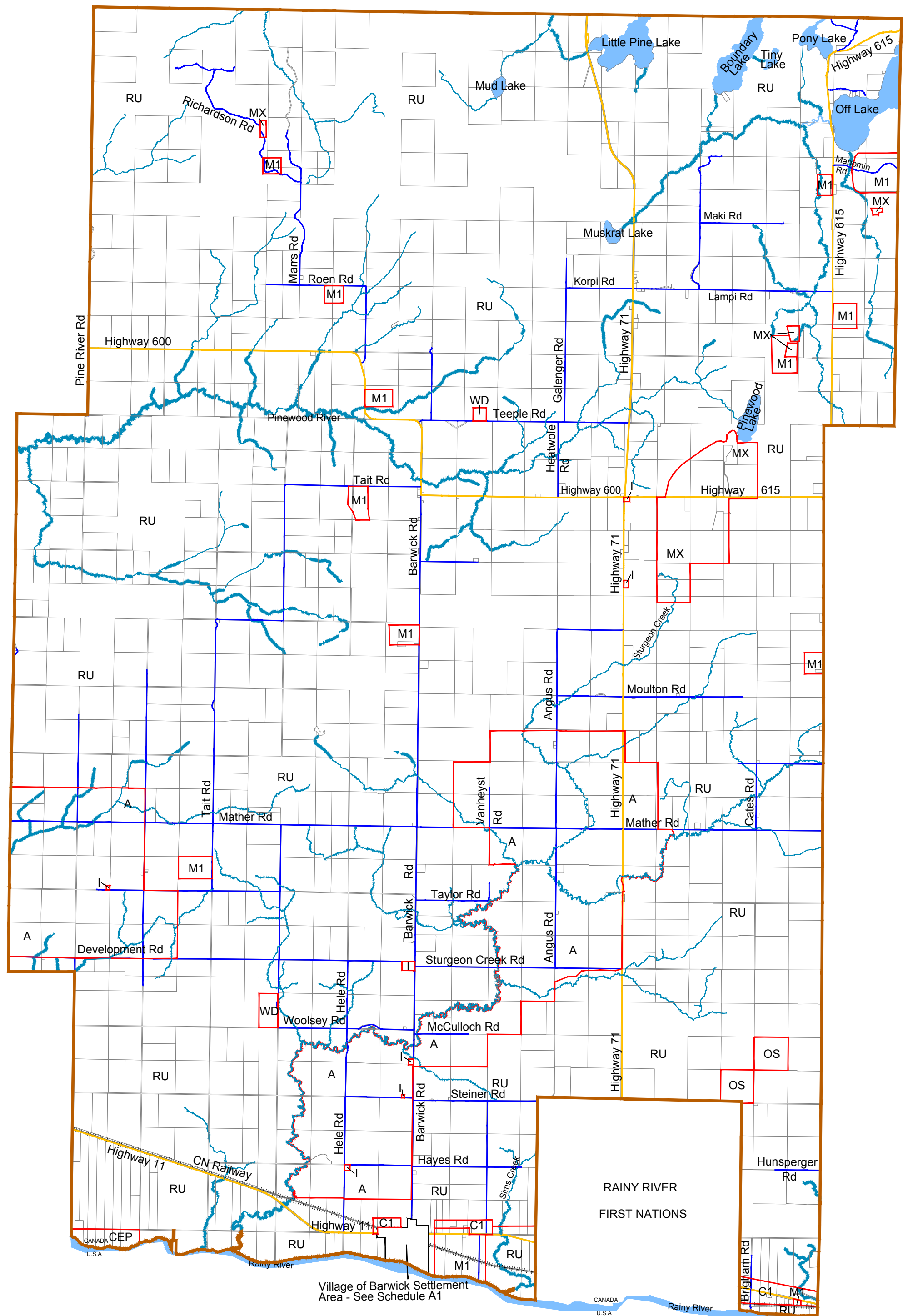
TOWNSHIP OF CHAPPLE ZONING BY-LAW SCHEDULE A

Council Adoption October 8, 2013

- Village Settlement Area
- Zone Boundary
- A - Agricultural Zone
 - RU - Rural Zone
 - C1 - Highway Commercial Zone
 - I - Institutional
 - M1 - Industrial Zone
 - MX - Aggregate Extraction Zone
 - WD - Waste Disposal Zone
 - OS - Open Space Zone
 - CEP - Conservation and Environmental Protection Zone

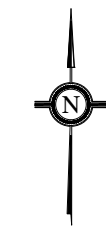
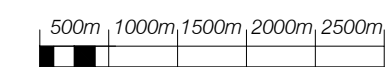
- Transportation
- Provincial Highway
 - Township Roads
 - CN Railway

- Watercourses



FOTENN PLANNING & URBAN DESIGN

Digital Map Created By:
CGIS Spatial Solutions
52 South Street
Perth, ON K7H 2G7
TEL: 613-368-4321
www.cgis.com



Note: The base information on this plan was prepared from a variety of map sources and was used by permission of the Township of Chapple. It is not a legal plan of survey. For precise location of plan features recourse should be had to the original source data.

Village of Barwick Settlement Area - See Schedule A1

SECTION 6 RURAL ZONE (RU) REGULATIONS

6.1 PERMITTED USES

No land shall be used in the Rural Zone (RU) except for the following purposes:

- Agricultural Service
- Agricultural Use
- Conservation Use
- Dwelling, Single-detached
- Farm Help House
- Forestry Use
- Garden Suite
- Grain Elevator and Grain Drying Facility
- Greenhouse Commercial
- Guest Cabin
- Home Industry
- Home Occupation
- Hunt Camp
- Kennel, Animal
- Manufacturing, Light
- Mineral Exploration
- Mobile Home
- Peat Extraction and Processing
- Portable Asphalt Plant
- Light Industrial Use
- Recreational Use
- Retirement Home
- Secondary Dwelling Unit
- Small Scale Commercial Use
- Wildlife Management

6.2 ZONE PROVISIONS

The following zone provisions shall apply to permitted uses in the RU Zone:

	Provision
a) Minimum Lot Area	4.0 hectares
b) Minimum Lot Frontage	100.0 metres
c) Maximum Lot Coverage	10.0 percent
d) Minimum Front Yard	15.0 metres
e) Minimum Side Yard	7.5 metres
f) Minimum Exterior Side Yard	15.0 metres
g) Minimum Rear Yard	15.0 metres
h) Maximum Height	10.5 metres
i) Minimum Dwelling Unit Area	60.0 square metres

6.3 USE SPECIFIC PROVISIONS

Notwithstanding Section 6.2, the following provisions shall apply to the uses listed in the following table:

	Provision Per Use	
	Single-detached Dwelling	Agricultural Service / Light Industrial Uses / Small Scale Commercial Use / Home Industry
a) Minimum Lot Area	1.2 hectares	1.2 hectares
b) Minimum Lot Frontage	90.0 metres	90.0 metres
c) Maximum Lot Coverage	10 percent	15 percent
d) Minimum Front Yard	15.0 metres	15.0 metres
e) Minimum Side Yard	7.5 metres	15.0 metres
f) Minimum Exterior Side Yard	15.0 metres	15.0 metres
g) Minimum Rear Yard	15.0 metres	15.0 metres
h) Maximum Height	10.5 metres	10.5 metres
i) Minimum Ground Floor	60.0 square metres	60.0 square metres

SECTION 14 INDUSTRIAL ZONE (M1) REGULATIONS

14.1 PERMITTED USES

No land shall be used in the Industrial Zone (M1) except for the following purposes:

- Accessory Dwelling Unit or Mobile Home for a caretaker, owner or manager and / or retail use in association with the following uses:
- Abattoir
- Automobile Wrecking Yard or Scrap Metal Yard
- Airport or Aircraft Landing Area
- Bulk Sales Establishment
- Commercial Storage Facility
- Contractor's Yard
- Industrial Use
- Light Industrial Use
- Manufacturing, Light
- Open Storage
- Portable Asphalt Plant
- Public Services
- Warehouse

14.2 ZONE PROVISIONS

The following zone provisions shall apply to permitted uses in the M1 Zone:

	Provision
a) Minimum Lot Area	
i. Unserviced	1.2 hectare
ii. Serviced	4000 square metres
b) Minimum Lot Frontage	
i. Unserviced	40.0 metres
ii. Serviced	30.0 metres
c) Maximum Lot Coverage	
i. Unserviced	35 percent
ii. Serviced	50 percent
d) Minimum Front Yard	15 metres
e) Minimum Side Yard	10 metres
f) Minimum Exterior Side Yard	10 metres
g) Minimum Rear Yard	10 metres
h) Minimum Landscaped Open Space	10 percent
i) Maximum Building Height	12 metres
j) Minimum Floor Area	140 square metres
k) Buffer Strip	3,0 metres where the lot abuts a residential, institutional or open space zone
l) Open Storage	may be located in an interior side yard and rear yard and shall be screened from adjacent streets by means of fencing and / or landscaping features. Open storage shall not a permitted within 9.0 metres of a residential zone.

14.3 ZONE PROVISIONS FOR ACCESSORY USES

1. Notwithstanding Section 14.2 of the Zoning By-law, the following provisions shall apply to Accessory Dwelling Units and Mobile Homes:

	Provision
a) Minimum Front Yard	15.0 metres
b) Minimum Side Yard	4.5 metres
c) Minimum Exterior Side Yard	6.0 metres
d) Minimum Rear Yard	7.5 metres
e) Minimum Dwelling Unit Area	45 square metres
f) Minimum Landscaped Open Space	10.5 metres

2. Notwithstanding any provision to the contrary, retail use area shall comprise a maximum of 5 percent of the ground floor area or 278 square metres, whichever is greater.

APPENDIX C. SLM SPECIFICATIONS



SoundExpert LxT Features	
Class 1 Precision Integrating Sound Level Meter	
1/1 and 1/3 Octave filters	
2GB internal, non-volatile memory	
User defined Data Logging with selectable parameters and storage rate	
Intervals (Measurement History) for a second independent data logger	
LDEN and LDN community noise	
High Contrast LCD display with LED backlight; sunlight readable	
USB communication	
Slow, Fast, or Impulse time weighting	
A, C, and Z frequency weighting	
Six (6) user defined statistic levels (Ln)	
Battery life > 16 hours using 4 AA Alkaline batteries	
AC and DC outputs	
Multiple language support (English, German, French, Italian, Spanish, Portuguese, Swedish, Turkish)	
Field upgradable firmware using SLM Utility G4	
Removable Microphone and Preamplifier	
Back erase -5 or -10 s	
Two year limited warranty	

SoundExpert LxT Specifications	
Averaging (Integration Method)	Linear or Exponential
RMS Time Weighting	Slow, Fast or Impulse
RMS Frequency Weighting	A, C or Z
Peak Frequency Weighting	A, C or Z
Sample Rate	51200 Hz
Peak Rise Time	≤ 30 μs
Range Level Error (OBA)	≤ ± 0.1 dB
Compliance	ANSI Type 1, IEC Class 1
Ranges	Single Range for Broadband 2 ranges for OBA
Maximum Clock Drift at 77 °F (25 °C)	< 2.6 s per day
1/1 and 1/3 Octave Filters	
1/1 Octave Filters	8 Hz to 16 kHz
1/3 Octave Filters	6.3 Hz to 20 kHz
Filter Selection	None, 1/1, 1/3, or 1/1 & 1/3
Frequency Weighting	A, C or Z (unweighted)
Maximum Spectrum	Maximum in each band or at broadband Lmax
Compliance	ANSI and IEC Class 1
Logging and Measurement History	
Logging Period	1 s to 24 hr
Logged Parameter	User selectable from Leq; Lmax; Lmin; LCSeq – LASeq; LAleq – LAeq; 1/1 OBA Leq, Lmax, Lmin; 1/3 OBA Leq, Lmax, Lmin, Battery, Internal Temperature
Measurement History Period (Continuous run mode)	1 min to 24 hr
Measurement History Parameters	Leq; Lmin w/time; Lmax w/time; Lpeak w/time; Exceedance counts w/duration; LAeq, Lceq, 1/1 OBA Leq, Lmax, Lmin; 1/3 OBA Leq, Lmax, Lmin
Community Noise	
Measured Parameters	LDEN, LDN
Day, Evening, Night Times	Programmable
Evening and Night Penalty	Programmable
Time Averaged Level Integration Time	
Minimum	1 s
Maximum (error < 0.5 dB)	> 23 days
Ln Percentile	
Number of User Defined Ln's	6
Ln Resolution	0.01%
Distribution Table Resolution	0.1 dB
Markers	
Number of Markers	10
Predefined Markers	5
Measurement Modes	
Available Modes	Manual Stop, Timed Stop, Stop when Stable, Continuous, Single Block Timer, Daily Block Timer
Manual Stop	Measurement defined by run and stop button
Timed Stop	Time in hh:mm:ss
Stop When Stable	Change < xx.x dB for hh:mm:ss
Continuous	Auto file store 1, 2, 4, 6, 12, 24, 48, 96, 144 times per day
Single Block Timer	Start date and time to end date and time
Daily Block Timer	3 unique start/stop times per day, multiple days
AC/DC Output	
Connector	2.5 mm stereo
AC Output Maximum Voltage	± 2.3 V peak
AC Output Recommended Load	≥ 16 Ω
DC Output Resolution	10 mV/dB (0 to 100 dB)
DC Output Time Weighting	Follows SLM Setting (F, S, I)
DC Output Frequency Weighting	Follows SLM Setting (A, C, Z)
Dynamic Range (typical)	
A Weighted	17 dB to 118 dB
C Weighted	19 dB to 118 dB
Z Weighted	24 dB to 118 dB



Power	
Batteries	4-AA (LR6) 1.5 V Lithium or Alkaline
External Power	5V from USB
AC Power Supply	PSA029 (Worldwide)
12V Supply (optional)	PSA031 – 12 VDC to 5 VDC
Continuous Runtime	18 hours Typical using Alkaline Batteries
Continuous Runtime	30 hours Typical using 1.5 V Lithium Batteries
Continuous Runtime	> 2 Weeks Typical using optional BAT015

Physical Characteristics	
Length (overall)	11.4 in (29.0 cm)
Length (instrument body only)	8.8 in (22.4 cm)
Width	2.8 in (7.1 cm)
Depth	1.6 in (4.1 cm)
Weight (with batteries)	1.0 lb (471 g)
Weight (with batteries, microphone and preamplifier)	1.1 lb (513 g)
Maximum Preamplifier Cable Length	200 ft (61 m)
Ingress Protection Rating	IP54

Environmental	
Temperature Sensitivity	$\leq \pm 0.5$ dB +14 to +122 °F (-10 to +50 °C)
Storage Temperature	-22 to +140 °F (-30 to +60 °C)
Humidity Sensitivity	$\leq \pm 0.5$ dB, 30% to 95% RH at +104 °F (+40 °C)

SoundExpert™ LxT Standards	
ANSI S1.4-2014 Specification for Type 1 Sound Level Meters	
ANSI S1.11-2004 Specification For Octave-Band And Fractional-Octave-Band Analog And Digital Filters, Class 1	
IEC 61672-1:2013 Sound Level Meters, Class 1	
IEC 61260:2001 Octave-Band And Fractional-Octave-Band Filters, Class 1	
IEC 60651:2001 Sound Level Meters	
IEC 60804:2000 Integrating-Averaging Sound Level Meters	
IEC 61010-1:2001 Ed 2.0 Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use – Part 1: General Requirements	
IEC 61326-1:2005 Electrical Equipment for Measurement, Control and Laboratory Use – EMC Requirements	
CE Directive 2004/108/EC	

Ordering Information

Model	Description
LXT1-SE-FF	SoundExpert LxT with 377B02 free-field microphone, SLM Utility G4 software
LXT1-SE-RI	SoundExpert LxT with 377B20 diffuse field microphone, SLM Utility G4 software
NMS-SE-FF	SoundExpert Environmental Noise Monitoring System – includes LXT1-SE-FF, EPS042, EPS2116, EXC010, SLM Utility G4 software
NMS-SE-RI	SoundExpert Environmental Noise Monitoring System – includes LXT1-SE-RI, EPS042, EPS2116, EXC010, SLM Utility G4 software
Included Accessories	
PRMLxT1L	Microphone Preamplifier
PSA029	Universal AC power supply
CBL138	USB Cable 6 ft (2 m)
Batteries	4-AA Alkaline
WS001	Windscreen 3.5" (90 mm)
Optional Accessories	
CAL200	Class 1 acoustic calibrator with 1/2 inch opening
SWW-DNA	Advanced Analysis Software
SWW-DNA-LXT	DNA driver for SoundExpert LxT
EPS042	Environmental Enclosure for LxT, includes BAT015 and gland for microphone cable
EPS2116	Outdoor protection for preamplifier and microphone
LXT-CCS	Hard Shell carrying case
PSA031	12 VDC to 5 VDC power converter
EXCxxx	Microphone extension cable in various lengths
CBL139	Cable connection AC/DC out to RCA or BNC
TRP001	Camera type Tripod for mounting EPS2116
Calibration	
CER-LXT1	Calibration for SoundExpert LxT
CER-MIC	Calibration for Microphone

Calibration Certificate

Certificate Number 2022007981

Customer:

Trinity Consultants Ontario IN

Model Number	LxT SE	Procedure Number	D0001.8384
Serial Number	0003978	Technician	Jacob Cannon
Test Results	Pass	Calibration Date	22 Jun 2022
Initial Condition	AS RECEIVED same as shipped	Calibration Due	22 Jun 2024
Description	Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.404	Temperature	23.17 °C ± 0.25 °C
		Humidity	51.4 %RH ± 2.0 %RH
		Static Pressure	86.7 kPa ± 0.13 kPa

Evaluation Method **Tested with:** **Data reported in dB re 20 µPa.**

Larson Davis CAL291. S/N 0108
Larson Davis PRMLxT1L. S/N 035949
PCB 377B20. S/N 142964
Larson Davis CAL200. S/N 9079

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

LARSON DAVIS - A PCB PIEZOTRONICS DIV.

1681 West 820 North
Provo, UT 84601, United States
716-684-0001



1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2021-09-10	2022-09-10	001250
Hart Scientific 2626-H Temperature Probe	2021-02-04	2022-08-04	006767
Larson Davis CAL200 Acoustic Calibrator	2021-07-21	2022-07-21	007027
Larson Davis Model 831	2022-02-21	2023-02-21	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2022-03-02	2023-03-02	007185
SRS DS360 Ultra Low Distortion Generator	2022-03-29	2023-03-29	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2021-09-28	2022-09-28	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.00	113.80	114.20	0.14	Pass

As Received Level: 117.51
Adjusted Level: 114.00

-- End of measurement results--

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-28.69	-30.00	-26.63	0.14	Pass

-- End of measurement results--



Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.14	-0.20	-1.20	0.80	0.23	Pass
1000	-0.07	0.00	-0.70	0.70	0.23	Pass
8000	-2.30	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	52.99

-- End of measurement results--

-- End of Report--

Signatory: Jacob Cannon

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 716-684-0001



APPENDIX D. WEATHER DATA



Hourly Data Report for June 21, 2019

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

FORT FRANCES RCS
ONTARIO
Current Station Operator: ECCC - MSC

Latitude:	48°39'04.000" N	Longitude:	93°26'20.002" W	Elevation:	342.00 m
Climate ID:	6022474	WMO ID:	71962	TC ID:	TAG

TIME	Temp °C	Dew Point °C	Rel Hum %	Wind Dir 10's deg	Wind Spd km/h	Visibility km	Stn Press kPa	Hmdx	Wind Chill	Weather
00:00	8.2	6.6	90	33	2		97.22			NA
01:00	7.4	6.4	94		0		97.26			NA
02:00	6.8	6.0	95		0		97.30			NA
03:00	5.6	4.7	94	0	1		97.37			NA
04:00	5.8	4.9	94	8	4		97.30			NA
05:00	5.8	4.6	92	28	3		97.51			NA
06:00	13.7	11.5	86	9	4		97.46			NA
07:00	16.8	9.0	60	11	10		97.48			NA
08:00	18.8	9.6	55	9	11		97.50			NA
09:00	20.7	8.0	44	9	15		97.48			NA
10:00	21.8	9.4	45	11	14		97.49			NA
11:00	22.9	8.9	41	10	18		97.49			NA
12:00	23.8	7.7	36	10	26		97.45			NA
13:00	24.2	6.6	32	12	23		97.43			NA
14:00	23.9	7.9	36	12	19		97.45			NA
15:00	24.5	5.1	29	14	19		97.44			NA
16:00	24.0	5.3	30	15	17		97.43			NA
17:00	23.4	5.2	31	14	19		97.42			NA
18:00	23.1	6.2	34	14	18		97.46			NA
19:00	21.9	6.1	36	15	12		97.52			NA
20:00	19.8	6.5	42	14	10		97.58			NA
21:00	15.3	6.8	57	12	8		97.60			NA
22:00	17.5	6.5	49	14	12		97.63			NA
23:00	17.2	6.5	49	15	13		97.67			NA

Legend	
• E = Estimated	• NA = Not Available±
• M = Missing	• [empty] = Indicates an unobserved value



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Hourly Data Report for December 22, 2020

If selected Local Standard Time (LST), add 1 hour to adjust for Daylight Saving Time where and when it is observed.

**FORT FRANCES RCS
ONTARIO
Current Station Operator: ECCC - MSC**

Latitude: 48°39'04.000" N
Longitude: 93°26'20.002" W
Elevation: 342.00 m
Climate ID: 6022474
WMO ID: 71962
TC ID: TAG

TIME LST	Temp	Dew Point	Rel Hum	Precip. Amount	Wind Dir	Wind Spd	Visibility	Stn Press	Hmdx	Wind Chill	Weather
	°C	°C	%	mm	10's deg	km/h	km	kPa			
00:00	-9.0	-11.0	85	0.0	28	17		97.33		-16	NA
01:00	-9.2	-10.9	88	0.0	26	10		97.34		-14	NA
02:00	-9.2	-10.8	88	0.0	25	9		97.35		-14	NA
03:00	-9.3	-10.4	91	0.0	22	4		97.38		-12	NA
04:00	-9.1	-9.8	95	0.0	20	4		97.37		-11	NA
05:00	-8.8	-9.6	94	0.0	15	4		97.36		-11	NA
06:00	-8.4	-9.3	93	0.0	16	6		97.34		-12	NA
07:00	-8.0	-8.9	93	0.0	16	5		97.33		-11	NA
08:00	-7.3	-8.1	94	0.0	16	8		97.25		-11	NA
09:00	-7.0	-7.9	94	0.0	13	9		97.17		-11	NA
10:00	-6.6	-7.5	94	0.1	13	11		97.15		-12	NA
11:00	-6.1	-6.9	94	0.0	13	10		97.12		-11	NA
12:00	-5.5	-6.3	94	0.0	12	12		97.01		-10	NA
13:00	-5.1	-5.8	95	0.0	10	14		96.88		-10	NA
14:00	-4.9	-5.7	94	0.1	10	21		96.66		-12	NA
15:00	-5.1	-5.9	94	0.0	9	23		96.51		-12	NA
16:00	-5.0	-6.0	92	0.5	8	23		96.37		-12	NA
17:00	-4.7	-5.9	91	0.1	9	22		96.34		-12	NA
18:00	-4.4	-5.6	91	0.1	10	23		96.25		-11	NA
19:00	-4.0	-5.2	91	0.0	8	20		96.19		-10	NA
20:00	-3.4	-4.7	91	0.0	10	22		96.05		-10	NA
21:00	-2.6	-4.0	90	0.0	10	22		95.95		-9	NA

TIME	Temp	Dew Point	Rel Hum	Precip. Amount	Wind Dir	Wind Spd	Visibility	Stn Press	Hmdx	Wind Chill	Weather
	°C	°C	%	mm	10's deg	km/h	km	kPa			
	↕	↕	↕	↕		↕	↕	↕			
22:00	-2.0	-3.5	90	0.0	10	17		95.87		-7	NA
23:00	-1.9	-3.1	91	0.0	8	13		95.80		-6	NA

Legend

- E = Estimated
 - M = Missing
 - NA = Not Available*
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Hourly Data Report for June 06, 2023

If selected Local Standard Time (LST), add 1 hour to adjust for Daylight Saving Time where and when it is observed.

**FORT FRANCES RCS
ONTARIO
Current Station Operator: ECCC - MSC**

Latitude: 48°39'04.000" N
Longitude: 93°26'20.002" W
Elevation: 342.00 m
Climate ID: 6022474
WMO ID: 71962
TC ID: TAG

TIME	Temp	Dew Point	Rel Hum	Precip. Amount	Wind Dir	Wind Spd	Visibility	Stn Press	Hmdx	Wind Chill	Weather
	°C	°C	%	mm	10's deg	km/h	km	kPa			
LST	°C	°C	%	mm	10's deg	km/h	km	kPa			
00:00	18.7	17.1	90	0.0	10	11		97.80			NA
01:00	18.7	16.9	89	0.0	13	10		97.76			NA
02:00	18.8	12.7	68	0.0	16	13		97.79			NA
03:00	18.0	12.5	70	0.0	18	11		97.82			NA
04:00	17.2	12.0	71	0.0	18	11		97.84			NA
05:00	16.1	12.1	77	0.0	17	8		97.80			NA
06:00	16.6	13.2	80	0.0	13	7		97.82			NA
07:00	17.0	13.0	77	0.0	14	10		97.82			NA
08:00	17.6	12.9	74	0.0	13	13		97.80			NA
09:00	18.9	13.2	69	0.0	14	15		97.75			NA
10:00	20.0	13.4	65	0.0	13	13		97.70			NA
11:00	21.7	13.6	60	0.0	12	15		97.62	25		NA
12:00	21.4	15.0	67	0.0	9	21		97.60	25		NA
13:00	21.5	15.6	69	0.0	9	22		97.54	26		NA
14:00	20.8	13.8	64	0.0	9	20		97.55			NA
15:00	21.9	14.4	62	0.0	11	19		97.52	26		NA
16:00	22.1	13.9	60	0.0	13	20		97.46	25		NA
17:00	21.5	14.1	63	0.0	12	17		97.47	25		NA
18:00	20.2	14.0	68	0.0	11	17		97.47			NA
19:00	19.8	14.1	70	0.0	12	10		97.45			NA
20:00	19.1	13.5	70	0.0	11	12		97.44			NA
21:00	17.2	12.8	75	0.0	13	8		97.46			NA

TIME	Temp	Dew Point	Rel Hum	Precip. Amount	Wind Dir	Wind Spd	Visibility	Stn Press	Hmdx	Wind Chill	Weather
	°C	°C	%	mm	10's deg	km/h	km	kPa			
LST	°C	°C	%	mm	10's deg	km/h	km	kPa			
22:00	18.3	12.2	68	0.0	13	13		97.49			NA
23:00	17.3	12.1	71	0.0	13	12		97.49			NA

Legend

- E = Estimated
 - M = Missing
 - NA = Not Available*
 - [empty] = Indicates an unobserved value
-

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Hourly Data Report for June 07, 2023

If selected Local Standard Time (LST), add 1 hour to adjust for Daylight Saving Time where and when it is observed.

**FORT FRANCES RCS
ONTARIO
Current Station Operator: ECCC - MSC**

Latitude: 48°39'04.000" N
Longitude: 93°26'20.002" W
Elevation: 342.00 m
Climate ID: 6022474
WMO ID: 71962
TC ID: TAG

TIME LST	Temp	Dew Point	Rel Hum	Precip. Amount	Wind Dir	Wind Spd	Visibility	Stn Press	Hmdx	Wind Chill	Weather
	°C	°C	%	mm	10's deg	km/h	km	kPa			
00:00	16.1	9.5	65	0.0	13	13		97.49			NA
01:00	15.1	7.8	62	0.0	12	14		97.52			NA
02:00	15.4	4.3	47	0.0	12	11		97.52			NA
03:00	15.1	2.9	44	0.0	12	11		97.55			NA
04:00	14.4	2.8	45	0.0	12	8		97.56			NA
05:00	14.1	1.5	42	0.0	13	11		97.58			NA
06:00	14.2	2.6	45	0.0	13	9		97.63			NA
07:00	14.4	2.6	45	0.0	12	13		97.63			NA
08:00	14.9	3.9	47	0.0	13	14		97.58			NA
09:00	16.0	5.1	48	0.0	13	15		97.59			NA
10:00	16.4	6.5	52	0.0	12	14		97.58			NA
11:00	17.9	4.4	41	0.0	16	17		97.53			NA
12:00	19.9	7.4	44	0.0	12	14		97.51			NA
13:00	20.3	7.9	45	0.0	10	18		97.49			NA
14:00	20.3	7.9	45	0.0	9	16		97.47			NA
15:00	20.9	6.0	38	0.0	11	12		97.44			NA
16:00	21.5	6.9	39	0.0	13	14		97.39			NA
17:00	20.9	9.1	47	0.0	8	7		97.37			NA
18:00	21.0	10.4	51	0.0	11	3		97.32			NA
19:00	20.3	10.8	55	0.0	13	5		97.27			NA
20:00	19.9	7.9	46	0.0	17	7		97.35			NA
21:00	18.7	7.5	48	0.0	16	8		97.41			NA

TIME	Temp	Dew Point	Rel Hum	Precip. Amount	Wind Dir	Wind Spd	Visibility	Stn Press	Hmdx	Wind Chill	Weather
	°C	°C	%	mm	10's deg	km/h	km	kPa			
	↕	↕	↕	↕		↕	↕	↕			
22:00	18.3	6.2	45	0.0	16	10		97.43			<u>NA</u>
23:00	17.1	5.7	47	0.0	16	9		97.44			<u>NA</u>

Legend

- E = Estimated
 - M = Missing
 - NA = Not Available*
 - [empty] = Indicates an unobserved value
-

Date modified:

2024-01-30

APPENDIX E. NOISE SOURCES & CALCULATIONS

**New Gold Inc. - Rainy River Mine
Acoustic Assessment Report**

**Appendix E - Noise Sources & Calculations
Table E-1: Equipment Summary**

AAR Source ID	Source Description	Source Location	Significant Source of Noise? (Yes or No)	Sound Characteristics	Source Type	Data Source
BD2	Blast Hole Drill 2- Sandvik D75KS (913)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
BD3	Blast Hole Drill 3- Sandvik D75KS (914)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
BD4	Blast Hole Drill 4- Sandvik D75KS (915)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
BD5	Blast Hole Drill 5- Sandvik D75KS (916)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
UC	Underground Crusher	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
DC1	Dust Collector 1	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1b]
DC2	Dust Collector 2	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1b]
E1	Komatsu Diesel Excavator PC5500 (601)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
E2	Komatsu Diesel Excavator PC5500 (602)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
E3	Komatsu Diesel Excavator PC8000 (603)	Open Pit	Yes	Steady	Point	Measured [Note 1b]
E4	Komatsu Diesel Excavator PC3000	Open Pit	Yes	Steady	Point	Measured [Note 1b]
E5	Komatsu Diesel Excavator PC800LC	Open Pit	Yes	Steady	Point	Measured [Note 1b]
E6	Komatsu Diesel Excavator PC360LC	Open Pit	Yes	Steady	Point	Measured [Note 1b]
E7	Komatsu Diesel Excavator PC360LC	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1b]
E8	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1c]
E11	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1c]
E12	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1c]
E13	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1c]
E14	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1c]
E15	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1c]
E16	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1c]
E17	Komatsu Diesel Excavator PC360LC	Portal	Yes	Steady	Point	Measured [Note 1c]
E18	Komatsu Diesel Excavator PC360LC	Portal	Yes	Steady	Point	Measured [Note 1c]
EO_FEL	EO Portable Plant - Wheel Loader (Doolan DL420)	East Outcrop Area	Yes	Steady	Point	Measured [Note 1c]
EO_PC	EO Portable Plant - Elrus 3054 Jaw Crusher	East Outcrop Area	Yes	Steady	Point	Measured [Note 1c]
EO_SCNR	EO Portable Plant - Terex 380 MVP Cone and Screener	East Outcrop Area	Yes	Steady	Point	Measured [Note 1c]
EO_GENSET	EO_GENSET	East Outcrop Area	Yes	Steady	Point	Measured [Note 1c]
DD1	DTH Drill Sandvik DR650i (918)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
DD2	DTH Drill Sandvik DR650i (919)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
DD3	DTH Drill Sandvik DR650i (920)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
DD4	DTH Drill Sandvik DR650i (921)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
T1	Transformer 1	Substation	Yes	Steady, Tonal	Point	Measured [Note 1b]
T2	Transformer 2	Substation	Yes	Steady, Tonal	Point	Measured [Note 1b]
TD01	Track Dozer 01 (Pit - Komatsu D475)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
TD02	Track Dozer 02 (Pit -CAT D10)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
TD03	Track Dozer 03 (Pit -CAT D10)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
TD04	Track Dozer 04 (Pit -CAT D10)	Open Pit	Yes	Steady	Point	Measured [Note 1c]
TD07D	Track Dozer 07 (PAG - Komatsu D475)	PAG Area	Yes	Steady	Point	Measured [Note 1c]
TD08D	Track Dozer 08 (PAG - Komatsu D475)	PAG Area	Yes	Steady	Point	Measured [Note 1c]

TD08N	Track Dozer 08 (PAG - Cat 10T)	PAG Area	Yes	Steady	Point	Measured [Note 1c]
TD09	Track Dozer 09 (Ore -CAT D9)	LGOS Area	Yes	Steady	Point	Measured [Note 1b]
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	NPAG/OB Area	Yes	Steady, Tonal	Point	Measured [Note 1b]
TD11N	Track Dozer 11 (NPAG/OB - CAT D10)	NPAG/OB Area	Yes	Steady	Point	Measured [Note 1b]
TD12D	Track Dozer 12 (NPAG/OB - Komatsu D475)	NPAG/OB Area	Yes	Steady, Tonal	Point	Measured [Note 1b]
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	NPAG/OB Area	Yes	Steady	Point	Measured [Note 1b]
TD17	Track Dozer 17 (TMA -CAT D9)	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1b]
TD18	Track Dozer 18 (TMA -CAT D9)	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
TD23	Track Dozer 23 (TMA -CAT D9)	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
TD24	Track Dozer 24 (TMA -CAT D9)	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
TD26	Track Dozer 26 (TMA -CAT D9)	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
TD27	Track Dozer 27 (TMA -CAT D9)	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
WD	Komatsu Wheel Dozer WD900	Open Pit	Yes	Steady	Point	Measured [Note 1b]
WL1	Komatsu Wheel Dozer WD900	Open Pit	Yes	Steady	Point	Measured [Note 1b]
WL2	CAT 994HL	Open Pit	Yes	Steady	Point	Estimated [Note 1a]
WL3	CAT 980H Wheel Loader	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1b]
WL4	CAT 980H Wheel Loader	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1b]
WL5	CAT 980H Wheel Loader	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1b]
WL6	CAT 980H Wheel Loader	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
WP01	Water Pump WP01	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP02	Water Pump WP02	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP03	Water Pump WP03	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP04	Water Pump WP04	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP05	Water Pump WP05	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP06	Water Pump WP06	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP07	Water Pump WP07	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP08	Water Pump WP08	Open Pit	Yes	Steady	Point	Measured [Note 1c]
WP09	Water Pump WP09	Sediment Pond	Yes	Steady	Point	Measured [Note 1c]
WP10	Water Pump WP10	Sediment Pond	Yes	Steady	Point	Measured [Note 1c]
WP12	Water Pump WP12	Sediment Pond	Yes	Steady	Point	Measured [Note 1c]
WP13	Water Pump WP13	Sediment Pond	Yes	Steady	Point	Measured [Note 1c]
WP14	Water Pump WP14	LD4 Area	Yes	Steady	Point	Measured [Note 1c]
WP15	Water Pump WP15	LD4 Area	Yes	Steady	Point	Measured [Note 1c]
WP17	Water Pump WP17	Sediment Pond	Yes	Steady	Point	Measured [Note 1c]
WP18	Water Pump WP18	Sediment Pond	Yes	Steady	Point	Measured [Note 1c]
MBPA_GENSET	Portable Plant - CAT C13 Genset	Mill Building / Processing Area	Yes	Steady	Point	Estimated [Note 1a]
COP1	Packers	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
COP2	Packers	TMA Area (Contractor)	Yes	Steady	Point	Measured [Note 1b]
TMA_PumpH	TMA-pump house	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1c]
TMA_WP2_P1	TMW-WP2 pump1	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1c]
TMA_WP2_P2	TMW-WP2 pump2	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1c]
TMA_WP2_P3	TMW-WP2 pump3	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1c]
TMA_WTP_Ex1	WTP ex fan 1	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1c]
TMA_WTP_Ex2	WTP ex fan 2	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1c]
TMA_DieselPump	TMA Dewatering diesel pump	TMA Area (New Gold)	Yes	Steady	Point	Measured [Note 1c]
AsyL_chiller1	Assay Lab chiller fan	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
AsyL_chiller2	Assay Lab chiller fan	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
AsyL_MUA	Assay Lab MUA	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
AsyL_DC1	Assay Lab DC1	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
AsyL_DC2	Assay Lab DC2	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]

Mill_Exh1	Mill Ex fan 1	Mill Building / Processing Area	Yes	Steady, Tonal	Point	Measured [Note 1c]
Mill_Exh2	Mill Ex fan 2	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
Mill_Exh3	Mill Ex fan 3	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
Mill_Exh4	Mill Ex fan 4	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
Mill_Exh5	Mill gooseneck ex 5	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
Mill_Exh6	Mill north ex 6	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
Mill_Exh7	Mill north ex 7	Mill Building / Processing Area	Yes	Steady, Tonal	Point	Measured [Note 1c]
Mill_Exh8	Mill north ex 8	Mill Building / Processing Area	Yes	Steady, Tonal	Point	Measured [Note 1c]
Loader	CAT Loader 994K	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
WP19	Water Pump WP19	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP20	Water Pump WP20	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP21	Water Pump WP21	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP22	Water Pump WP22	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP23	Water Pump WP23	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP24	Water Pump WP24	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP25	Water Pump WP25	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
WP26	Water Pump WP26	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
WP27	Water Pump WP27	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
WP28	Water Pump WP28	TMA Area	Yes	Steady	Point	Measured [Note 1c]
TD_WMRS	Track Dozer WMRS (Komatsu D475)	WMRS Area	Yes	Steady	Point	Measured [Note 1c]
CP_JC	Frank Crushing Plant - Jaw Crusher	TMA Area	Yes	Steady	Point	Measured [Note 1c]
CP_S	Frank Crushing Plant - Screener	TMA Area	Yes	Steady	Point	Measured [Note 1c]
CP_Gen	Frank Crushing Plant - Generator	TMA Area	Yes	Steady	Point	Measured [Note 1c]
CP_loader	Frank Crushing Plant - John Deer 844K	TMA Area	Yes	Steady	Point	Measured [Note 1c]
Intake	Fresh Air Intake	EMRS Area	Yes	Steady	Point	Measured [Note 1c]
Mat_drop	Material Drop	Mill Building / Processing Area	Yes	Steady	Point	Measured [Note 1c]
WP29	Water Pump WP29	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP30	Water Pump WP30	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP31	Water Pump WP31	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP32	Water Pump WP32	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP33	Water Pump WP33	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP34	Water Pump WP34	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP35	Water Pump WP35	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP36	Water Pump WP36	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP37	Water Pump WP37	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP38	Water Pump WP38	TMA Area	Yes	Steady	Point	Measured [Note 1c]
WP39	Water Pump WP39	WMRS Area	Yes	Steady	Point	Measured [Note 1c]
WP40	Water Pump WP40	WMRS Area	Yes	Steady	Point	Measured [Note 1c]
WP41	Water Pump WP41	EMRS Area	Yes	Steady	Point	Measured [Note 1c]
EG1	Emergency Generator 1	Substation	Yes	Steady	Point	Estimated [Note 1a]
EG2	Emergency Generator 2	Substation	Yes	Steady	Point	Estimated [Note 1a]
FP1	Fire Pump 1	Mill Building / Processing Area	Yes	Steady, Tonal	Point	Estimated [Note 1a]
FP2	Fire Pump 2	Mill Building / Processing Area	Yes	Steady, Tonal	Point	Estimated [Note 1a]
MGR_NPAG	Motor Grader Route NPAG	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
MGR_OB	Motor Grader Route OB	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
MGR_OPMill	Motor Grader Route Open pit to mill	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
MGR_PAG	Motor grader route PAG	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
MGR_SP	Motor Grader Route Stockpile	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP_NPAG	Truck Route Open Pit to NPAG (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP_OB	Truck Route Open Pit to Overburden (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]

TRE_OP_Mill	Truck Route Open Pit to Mill (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP_PAG	Truck Route Open Pit to PAG (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP_LGO	Truck Route Open Pit to LGO (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP_TMA	Truck Route TMA Staging Area to TMA Dam (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP_NPAG	Truck Route Open Pit to NPAG (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP_OB	Truck Route Open Pit to Overburden (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP_Mill	Truck Route Open Pit to Mill (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP_PAG	Truck Route Open Pit to PAG (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP_LGO	Truck Route Open Pit to LGO (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP_TMA	Truck Route Open Pit to TMA Staging Area (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR_NPAG	Water Truck Route NPAG	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR_OB	Water Truck Route OB	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR_OPMill	Water Truck Route Open Pit to Mill	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR_PAG	Water Truck Route PAG	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR_SP	Water Truck Route Stockpile	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_TMA1	Truck route TMA staging to TMA Dam (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_TMA1	Truck route TMA staging to TMA Dam (Loaded Truc	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_TMA_2023	Truck route TMA_2023 (Loaded truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_TMA_2023	Truck route TMA_2023 (Empty truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
MGR2_NPAG	Motor Grader Route NPAG 2	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP2_NPAG	Truck Route Open Pit to NPAG 2 (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP2_NPAG	Truck Route Open Pit to NPAG 2 (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR2_NPAG	Water Truck Route NPAG 2	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR3_NPAG	Water Truck Route NPAG 3	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
MGR3_NPAG	Motor Grader Route NPAG 3	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP3_NPAG	Truck Route Open Pit to NPAG 3 (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP3_NPAG	Truck Route Open Pit to NPAG 3 (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRL_OP4_NPAG	Truck Route Open Pit to NPAG 4 (Loaded Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
MGR4_NPAG	Motor Grader Route NPAG 4	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
TRE_OP4_NPAG	Truck Route Open Pit to NPAG 4 (Empty Truck)	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
WTR4_NPAG	Water Truck Route NPAG 4	Haul Roads	Yes	Steady	Line	Measured [Note 1c]
Packer_TMA1	Compactor route TMA staging to TMA Dam	TMA Area	Yes	Steady	Line	Measured [Note 1b]
Scrapper_TMA1	Scrapper route TMA staging to TMA Dam	TMA Area	Yes	Steady	Line	Measured [Note 1c]
Mill_intake_E	Mill intake East	Mill Building / Processing Area	Yes	Steady	Area	Measured [Note 1c]
Mill_intake_N	Mill intake North	Mill Building / Processing Area	Yes	Steady	Area	Measured [Note 1c]
Mill_BD10E	Mill Bay door 10E	Mill Building / Processing Area	Yes	Steady	Vertical Area	Measured [Note 1c]
Mill_BD9E	Mill Bay door 9E	Mill Building / Processing Area	Yes	Steady	Vertical Area	Measured [Note 1c]
Mill_BD27W	Mill Bay door 27W	Mill Building / Processing Area	Yes	Steady	Vertical Area	Measured [Note 1c]
Mill_BD18W	Mill Bay door 18W	Mill Building / Processing Area	Yes	Steady	Vertical Area	Measured [Note 1c]
DC3	Furnace Dust Collector	Mill Building / Processing Area	No			
DC4	Lime Bin Dust Collector	Mill Building / Processing Area	No			
DC5	Flocculant Handling Cartridge Filter	Mill Building / Processing Area	No			
DC6	Copper Sulphate Loading & Mixing	Mill Building / Processing Area	No			
DC7	Sodium Metabisulphate Loading	Mill Building / Processing Area	No			
EF2	Cyanide Tank Exhaust	Mill Building / Processing Area	No			
EF3	Dilute Acid Tank	Mill Building / Processing Area	No			
VENT3	Hydrochloric Acid Tank	Mill Building / Processing Area	No			
LEACH	Leach Tanks	Mill Building / Processing Area	No			
HCND1	CN Destruction Tank	Mill Building / Processing Area	No			
HCND2	CN Destruction Tank	Mill Building / Processing Area	No			

Various	Space Heating in Buildings	Mill Building / Processing Area	No			
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Notes

1a: Sound level estimated using manufacturer data.

1b: Measured Sound Levels from previous AAR by Amec Foster Wheeler, dated January 2018.

1c: Measured by Trinity and/or New Gold

Appendix E - Noise Sources & Calculations

Table E-2: Source Summary Calculations

AAR Source ID	Description	Source Location	Sound Characteristics	Source Type	Data Source	PWL (dB) By Octave Band Centre Frequency (Hz)										PWL Overall		Maximum Operating Times			Tonality Correction
						31.5	63	125	250	500	1000	2000	4000	8000	(dB)	(dBA)	Day (min/h)	Evening (min/h)	Night (min/h)	0 - Not tonal; 5 - Tonal (dB)	
						(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)							
BD2	Blast Hole Drill 2- Sandvik D75KS (913)	Open Pit	Steady	Point	Measured [Note 1c]	100	107	103	102	108	107	108	108	102	116	114	60	60	60	0	
BD3	Blast Hole Drill 3- Sandvik D75KS (914)	Open Pit	Steady	Point	Measured [Note 1c]	100	107	103	102	108	107	108	108	102	116	114	60	60	60	0	
BD4	Blast Hole Drill 4- Sandvik D75KS (915)	Open Pit	Steady	Point	Measured [Note 1c]	100	107	103	102	108	107	108	108	102	116	114	60	60	60	0	
BD5	Blast Hole Drill 5- Sandvik D75KS (916)	Open Pit	Steady	Point	Measured [Note 1c]	100	107	103	102	108	107	108	108	102	116	114	60	60	60	0	
UC	Underground Crusher	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	95	95	100	101	99	93	87	81	74	106	99	60	60	60	0	
DC1	Dust Collector 1	Mill Building / Processing Area	Steady	Point	Measured [Note 1b]	103	102	103	108	102	99	95	92	90	112	105	60	60	60	0	
DC2	Dust Collector 2	Mill Building / Processing Area	Steady	Point	Measured [Note 1b]	103	102	103	108	102	99	95	92	90	112	105	60	60	60	0	
E1	Komatsu Diesel Excavator PC5500 (601)	Open Pit	Steady	Point	Measured [Note 1c]	115	126	132	121	118	114	110	106	101	134	121	60	60	60	0	
E2	Komatsu Diesel Excavator PC5500 (602)	Open Pit	Steady	Point	Measured [Note 1c]	115	126	132	121	118	114	110	106	101	134	121	60	60	60	0	
E3	Komatsu Diesel Excavator PC8000 (603)	Open Pit	Steady	Point	Measured [Note 1b]	118	127	122	122	120	115	111	103	95	130	121	60	60	60	0	
E4	Komatsu Diesel Excavator PC3000	Open Pit	Steady	Point	Measured [Note 1b]	115	118	126	121	117	115	109	104	97	129	120	60	60	60	0	
E5	Komatsu Diesel Excavator PC800LC	Open Pit	Steady	Point	Measured [Note 1b]	109	116	115	107	112	107	104	99	93	120	113	60	60	60	0	
E6	Komatsu Diesel Excavator PC360LC	Open Pit	Steady	Point	Measured [Note 1b]	113	115	117	117	113	112	108	99	93	123	116	60	60	60	0	
E7	Komatsu Diesel Excavator PC360LC	TMA Area (New Gold)	Steady	Point	Measured [Note 1b]	113	115	117	117	113	112	108	99	93	123	116	60	60	60	0	
E8	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	60	60	0	
E11	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	60	60	0	
E12	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	60	60	0	
E13	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	60	60	0	
E14	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	60	60	0	
E15	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	60	60	0	
E16	Komatsu Diesel Excavator PC360LC	TMA Area (Contractor)	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	60	60	0	
E17	Komatsu Diesel Excavator PC360LC	Portal	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	0	0	0	
E18	Komatsu Diesel Excavator PC360LC	Portal	Steady	Point	Measured [Note 1c]	109	105	102	100	101	97	94	91	84	112	103	60	0	0	0	
EO_FEL	EO Portable Plant - Wheel Loader (Doolan DL420)	East Outcrop Area	Steady	Point	Measured [Note 1c]	108	122	114	109	115	116	111	106	85	125	119	60	0	0	0	
EO_PC	EO Portable Plant - Elrus 3054 Jaw Crusher	East Outcrop Area	Steady	Point	Measured [Note 1c]	120	123	119	115	115	112	111	106	85	127	118	60	0	0	0	
EO_SCNR	EO Portable Plant - Terex 380 MVP Cone and Screener	East Outcrop Area	Steady	Point	Measured [Note 1c]	113	119	117	114	118	117	117	112	85	125	122	60	0	0	0	
EO_GENSET	EO_GENSET	East Outcrop Area	Steady	Point	Measured [Note 1c]	110	118	123	120	122	119	116	110	85	128	124	60	0	0	0	
DD1	DTH Drill Sandvik DR650i (918)	Open Pit	Steady	Point	Measured [Note 1c]	110	113	116	112	116	115	112	107	105	123	119	60	60	60	0	
DD2	DTH Drill Sandvik DR650i (919)	Open Pit	Steady	Point	Measured [Note 1c]	110	113	116	112	116	115	112	107	105	123	119	60	60	60	0	
DD3	DTH Drill Sandvik DR650i (920)	Open Pit	Steady	Point	Measured [Note 1c]	110	113	116	112	116	115	112	107	105	123	119	60	60	60	0	
DD4	DTH Drill Sandvik DR650i (921)	Open Pit	Steady	Point	Measured [Note 1c]	110	113	116	112	116	115	112	107	105	123	119	60	60	60	0	
T1	Transformer 1	Substation	Steady, Tonal	Point	Measured [Note 1b]	0	111	113	108	108	102	97	92	85	117	108	60	60	60	5	
T2	Transformer 2	Substation	Steady, Tonal	Point	Measured [Note 1b]	0	111	113	108	108	102	97	92	85	117	108	60	60	60	5	
TD01	Track Dozer 01 (Pit - Komatsu D475)	Open Pit	Steady	Point	Measured [Note 1c]	110	113	118	110	112	110	107	105	101	121	115	60	60	60	0	
TD02	Track Dozer 02 (Pit -CAT D10)	Open Pit	Steady	Point	Measured [Note 1c]	108	122	123	111	116	114	114	110	110	127	120	60	60	60	0	
TD03	Track Dozer 03 (Pit -CAT D10)	Open Pit	Steady	Point	Measured [Note 1c]	108	122	123	111	116	114	114	110	110	127	120	60	60	60	0	
TD04	Track Dozer 04 (Pit -CAT D10)	Open Pit	Steady	Point	Measured [Note 1c]	108	122	123	111	116	114	114	110	110	127	120	60	60	60	0	
TD07D	Track Dozer 07 (PAG - Komatsu D475)	PAG Area	Steady	Point	Measured [Note 1c]	110	113	118	110	112	110	107	105	101	121	115	60	0	0	0	
TD08D	Track Dozer 08 (PAG - Komatsu D475)	PAG Area	Steady	Point	Measured [Note 1c]	110	113	118	110	112	110	107	105	101	121	115	60	0	0	0	
TD08N	Track Dozer 08 (PAG - Cat 10T)	PAG Area	Steady	Point	Measured [Note 1c]	108	122	123	111	116	114	114	110	110	127	120	60	60	60	0	
TD09	Track Dozer 09 (Ore -CAT D9)	LGOS Area	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	60	60	0	
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	NPAG/OB Area	Steady, Tonal	Point	Measured [Note 1b]	111	111	114	113	116	110	108	106	100	121	116	60	0	0	5	
TD11N	Track Dozer 11 (NPAG/OB - CAT D10)	NPAG/OB Area	Steady	Point	Measured [Note 1b]	107	111	115	114	113	110	107	99	92	120	115	60	60	60	0	
TD12D	Track Dozer 12 (NPAG/OB - Komatsu D475)	NPAG/OB Area	Steady, Tonal	Point	Measured [Note 1b]	111	111	114	113	116	110	108	106	100	121	116	60	0	0	5	
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	NPAG/OB Area	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	60	60	0	
TD17	Track Dozer 17 (TMA -CAT D9)	TMA Area (New Gold)	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	0	0	0	
TD18	Track Dozer 18 (TMA -CAT D9)	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	60	60	0	
TD23	Track Dozer 23 (TMA -CAT D9)	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	60	60	0	
TD24	Track Dozer 24 (TMA -CAT D9)	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	60	60	0	
TD26	Track Dozer 26 (TMA -CAT D9)	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	60	60	0	
TD27	Track Dozer 27 (TMA -CAT D9)	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	100	103	106	107	106	105	104	100	93	114	110	60	60	60	0	
WD	Komatsu Wheel Dozer WD900	Open Pit	Steady	Point	Measured [Note 1b]	0	116	123	110	112	111	107	98	91	125	115	60	60	60	0	
WL1	Komatsu Wheel Dozer WD900	Open Pit	Steady	Point	Measured [Note 1b]	113	121	124	113	111	110	110	105	101	126	116	60	60	60	0	
WL2	CAT 994HL	Open Pit	Steady	Point	Estimated [Note 1a]	0	114	121	108	110	109	105	96	59	123	113	60	60	60	0	
WL3	CAT 980H Wheel Loader	TMA Area (New Gold)	Steady	Point	Measured [Note 1b]	119	128	121	110	111	110	105	100	94	130	114	60	60	60	0	
WL4	CAT 980H Wheel Loader	TMA Area (New Gold)	Steady	Point	Measured [Note 1b]	119	128	121	110	111	110	105	100	94	130	114	60	60	60	0	
WL5	CAT 980H Wheel Loader	TMA Area (New Gold)	Steady	Point	Measured [Note 1b]	119	128	121	110	111	110	105	100	94	130	114	60	60	60	0	
WL6	CAT 980H Wheel Loader	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	119	128	121	110	111	110	105	100	94	130	114	60	60	60	0	
WP01	Water Pump WP01	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	
WP02	Water Pump WP02	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	
WP03	Water Pump WP03	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	
WP04	Water Pump WP04	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	
WP05	Water Pump WP05	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	
WP06	Water Pump WP06	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	
WP07	Water Pump WP07	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	
WP08	Water Pump WP08	Open Pit	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0	

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Appendix E - Noise Sources & Calculations

Table E-2: Source Summary Calculations

AAR Source ID	Description	Source Location	Sound Characteristics	Source Type	Data Source	PWL (dB) By Octave Band Centre Frequency (Hz)									PWL Overall		Maximum Operating Times			Tonality Correction
						31.5	63	125	250	500	1000	2000	4000	8000	(dB)	(dBA)	Day	Evening	Night	0 - Not tonal; 5 - Tonal
						(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(min/h)	(min/h)	(min/h)	(dB)
WP09	Water Pump WP09	Sediment Pond	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP10	Water Pump WP10	Sediment Pond	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP12	Water Pump WP12	Sediment Pond	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP13	Water Pump WP13	Sediment Pond	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP14	Water Pump WP14	LD4 Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP15	Water Pump WP15	LD4 Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP17	Water Pump WP17	Sediment Pond	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP18	Water Pump WP18	Sediment Pond	Steady	Point	Measured [Note 1c]	101	120	119	102	104	99	99	105	102	123	110	60	60	60	0
MBPA_GENSET	Portable Plant - CAT C13 Genset	Mill Building / Processing Area	Steady	Point	Estimated [Note 1a]	0	109	111	115	112	112	111	109	113	121	118	60	60	60	0
COP1	Packers	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	0	87	99	106	111	113	108	101	93	117	116	60	60	60	0
COP2	Packers	TMA Area (Contractor)	Steady	Point	Measured [Note 1b]	0	87	99	106	111	113	108	101	93	117	116	60	60	60	0
TMA_PumpH	TMA-pump house	TMA Area (New Gold)	Steady	Point	Measured [Note 1c]	77	76	84	87	71	73	76	64	54	90	82	60	60	60	0
TMA_WP2_P1	TMW-WP2 pump1	TMA Area (New Gold)	Steady	Point	Measured [Note 1c]	83	80	83	80	73	72	71	66	58	88	78	60	60	60	0
TMA_WP2_P2	TMW-WP2 pump2	TMA Area (New Gold)	Steady	Point	Measured [Note 1c]	83	80	83	80	73	72	71	66	58	88	78	60	60	60	0
TMA_WP2_P3	TMW-WP2 pump3	TMA Area (New Gold)	Steady	Point	Measured [Note 1c]	83	80	83	80	73	72	71	66	58	88	78	60	60	60	0
TMA_WTP_Ex1	WTP ex fan 1	TMA Area (New Gold)	Steady	Point	Measured [Note 1c]	88	88	82	90	80	83	80	76	69	95	88	60	60	60	0
TMA_WTP_Ex2	WTP ex fan 2	TMA Area (New Gold)	Steady	Point	Measured [Note 1c]	88	88	82	90	80	83	80	76	69	95	88	60	60	60	0
TMA_DieselPump	TMA Dewatering diesel pump	TMA Area (New Gold)	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
Asyl_chiller1	Assay Lab chiller fan	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	92	89	86	84	83	78	74	68	60	95	84	60	60	60	0
Asyl_chiller2	Assay Lab chiller fan	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	92	89	86	84	83	78	74	68	60	95	84	60	60	60	0
Asyl_MUA	Assay Lab MUA	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	86	89	86	78	75	75	71	69	61	92	80	60	60	60	0
Asyl_DC1	Assay Lab DC1	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	102	106	105	107	106	100	102	101	0	113	109	60	60	60	0
Asyl_DC2	Assay Lab DC2	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	102	106	105	107	106	100	102	101	0	113	109	60	60	60	0
Mill_Exh1	Mill Ex fan 1	Mill Building / Processing Area	Steady, Tonal	Point	Measured [Note 1c]	111	118	107	103	102	100	98	94	87	119	105	60	60	60	5
Mill_Exh2	Mill Ex fan 2	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	114	113	112	110	111	104	98	92	85	119	111	60	60	60	0
Mill_Exh3	Mill Ex fan 3	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	98	99	95	93	94	96	90	84	80	104	99	60	60	60	0
Mill_Exh4	Mill Ex fan 4	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	98	99	95	93	94	96	90	84	80	104	99	60	60	60	0
Mill_Exh5	Mill gooseneck ex 5	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	93	96	99	94	90	88	84	82	81	103	94	60	60	60	0
Mill_Exh6	Mill north ex 6	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	101	105	106	101	99	93	92	91	86	110	101	60	60	60	0
Mill_Exh7	Mill north ex 7	Mill Building / Processing Area	Steady, Tonal	Point	Measured [Note 1c]	112	115	109	104	104	105	100	97	90	118	109	60	60	60	5
Mill_Exh8	Mill north ex 8	Mill Building / Processing Area	Steady, Tonal	Point	Measured [Note 1c]	112	115	109	104	104	105	100	97	90	118	109	60	60	60	5
Loader	CAT Loader 994K	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	118	118	119	113	115	115	111	108	104	125	119	60	60	60	0
WP19	Water Pump WP19	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP20	Water Pump WP20	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP21	Water Pump WP21	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP22	Water Pump WP22	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP23	Water Pump WP23	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP24	Water Pump WP24	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP25	Water Pump WP25	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP26	Water Pump WP26	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP27	Water Pump WP27	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP28	Water Pump WP28	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
TD_WMRS	Track Dozer WMRS (Komatsu D475)	WMRS Area	Steady	Point	Measured [Note 1c]	110	113	118	110	112	110	107	105	101	121	115	60	60	60	0
CP_JC	Frank Crushing Plant - Jaw Crusher	TMA Area	Steady	Point	Measured [Note 1c]	111	115	114	114	113	111	108	103	98	121	116	60	60	60	0
CP_S	Frank Crushing Plant - Screener	TMA Area	Steady	Point	Measured [Note 1c]	103	108	112	112	110	108	107	106	108	119	115	60	60	60	0
CP_Gen	Frank Crushing Plant - Generator	TMA Area	Steady	Point	Measured [Note 1c]	98	101	105	115	111	110	108	106	103	119	116	60	60	60	0
CP_loader	Frank Crushing Plant - John Deer 844K	TMA Area	Steady	Point	Measured [Note 1c]	101	107	106	99	97	98	94	88	82	111	102	60	60	60	0
Intake	Fresh Air Intake	EMRS Area	Steady	Point	Measured [Note 1c]	94	98	97	88	83	76	74	68	61	102	86	60	60	60	0
Mat_drop	Material Drop	Mill Building / Processing Area	Steady	Point	Measured [Note 1c]	114	114	110	112	111	111	111	108	104	121	117	60	60	60	0
WP29	Water Pump WP29	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP30	Water Pump WP30	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP31	Water Pump WP31	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP32	Water Pump WP32	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP33	Water Pump WP33	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP34	Water Pump WP34	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP35	Water Pump WP35	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP36	Water Pump WP36	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP37	Water Pump WP37	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP38	Water Pump WP38	TMA Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP39	Water Pump WP39	WMRS Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP40	Water Pump WP40	WMRS Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
WP41	Water Pump WP41	EMRS Area	Steady	Point	Measured [Note 1c]	105	102	91	88	92	92	91	87	82	107	97	60	60	60	0
EG1	Emergency Generator 1	Substation	Steady	Point	Estimated [Note 1a]	0	131	141	131	122	116	116	113	117	142	129	60	0	0	0
EG2	Emergency Generator 2	Substation	Steady	Point	Estimated [Note 1a]	0	131	141	131	122	116	116	113	117	142	129	60	0	0	0
FP1	Fire Pump 1	Mill Building / Processing Area	Steady, Tonal	Point	Estimated [Note 1a]	0	129	133	128	130	130	133	129	120	139	137	60	0	0	5
FP2	Fire Pump 2	Mill Building / Processing Area	Steady, Tonal	Point	Estimated [Note 1a]	0	129	133	128	130	130	133	129	120	139	137	60	0	0	5

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AAR Source ID	Description	Source Location	Sound Characteristics	Source Type	Data Source	PWL (dB) By Octave Band Centre Frequency (Hz)										PWL Overall		Maximum Operating Times			Tonality Correction 0 - Not tonal; 5 - Tonal (dB)
						31.5	63	125	250	500	1000	2000	4000	8000	(dB)	(dBA)	Day (min/h)	Evening (min/h)	Night (min/h)		
						(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)							
MGR_NPAG	Motor Grader Route NPAG	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
MGR_OB	Motor Grader Route OB	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
MGR_OPMill	Motor Grader Route Open pit to mill	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
MGR_PAG	Motor grader route PAG	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
MGR_SP	Motor Grader Route Stockpile	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
TRE_OP_NPAG	Truck Route Open Pit to NPAG (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
TRE_OP_OB	Truck Route Open Pit to Overburden (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
TRE_OP_Mill	Truck Route Open Pit to Mill (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	6 Trips/hr	6 Trips/hr	6 Trips/hr	0	
TRE_OP_PAG	Truck Route Open Pit to PAG (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	16 Trips/hr	16 Trips/hr	16 Trips/hr	0	
TRE_OP_LGO	Truck Route Open Pit to LGO (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	3 Trips/hr	3 Trips/hr	3 Trips/hr	0	
TRE_OP_TMA	Truck Route TMA Staging Area to TMA Dam (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	5 Trips/hr	5 Trips/hr	5 Trips/hr	0	
TRL_OP_NPAG	Truck Route Open Pit to NPAG (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
TRL_OP_OB	Truck Route Open Pit to Overburden (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
TRL_OP_Mill	Truck Route Open Pit to Mill (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	6 Trips/hr	6 Trips/hr	6 Trips/hr	0	
TRL_OP_PAG	Truck Route Open Pit to PAG (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	16 Trips/hr	16 Trips/hr	16 Trips/hr	0	
TRL_OP_LGO	Truck Route Open Pit to LGO (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	3 Trips/hr	3 Trips/hr	3 Trips/hr	0	
TRL_OP_TMA	Truck Route Open Pit to TMA Staging Area (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	5 Trips/hr	5 Trips/hr	5 Trips/hr	0	
WTR_NPAG	Water Truck Route NPAG	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
WTR_OB	Water Truck Route OB	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
WTR_OPMill	Water Truck Route Open Pit to Mill	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
WTR_PAG	Water Truck Route PAG	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
WTR_SP	Water Truck Route Stockpile	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
TRE_TMA1	Truck route TMA staging to TMA Dam (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	8 Trips/hr	8 Trips/hr	8 Trips/hr	0	
TRL_TMA1	Truck route TMA staging to TMA Dam (Loaded Truc)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	8 Trips/hr	8 Trips/hr	8 Trips/hr	0	
TRL_TMA_2023	Truck route TMA_2023 (Loaded truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	8 Trips/hr	8 Trips/hr	8 Trips/hr	0	
TRE_TMA_2023	Truck route TMA_2023 (Empty truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	8 Trips/hr	8 Trips/hr	8 Trips/hr	0	
MGR2_NPAG	Motor Grader Route NPAG 2	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
TRE_OP2_NPAG	Truck Route Open Pit to NPAG 2 (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
TRL_OP2_NPAG	Truck Route Open Pit to NPAG 2 (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
WTR2_NPAG	Water Truck Route NPAG 2	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
WTR3_NPAG	Water Truck Route NPAG 3	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
MGR3_NPAG	Motor Grader Route NPAG 3	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
TRE_OP3_NPAG	Truck Route Open Pit to NPAG 3 (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
TRL_OP3_NPAG	Truck Route Open Pit to NPAG 3 (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
TRL_OP4_NPAG	Truck Route Open Pit to NPAG 4 (Loaded Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	97	102	107	103	103	99	95	86	78	111	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
MGR4_NPAG	Motor Grader Route NPAG 4	Haul Roads	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	1 Trip/hr	1 Trip/hr	1 Trip/hr	0	
TRE_OP4_NPAG	Truck Route Open Pit to NPAG 4 (Empty Truck)	Haul Roads	Steady	Line	Measured [Note 1c]	104	107	105	100	101	99	96	87	80	112	104	11 Trips/hr	11 Trips/hr	11 Trips/hr	0	
WTR4_NPAG	Water Truck Route NPAG 4	Haul Roads	Steady	Line	Measured [Note 1c]	108	107	105	103	106	102	99	90	82	114	107	2 Trips/hr	2 Trips/hr	2 Trips/hr	0	
Packer_TMA1	Compactor route TMA staging to TMA Dam	TMA Area	Steady	Line	Measured [Note 1b]	0	87	99	106	111	113	108	101	93	117	116	60	60	60	0	
Scraper_TMA1	Scraper route TMA staging to TMA Dam	TMA Area	Steady	Line	Measured [Note 1c]	95	97	104	103	106	103	100	95	92	111	108	60	60	60	0	
Mill_intake_E	Mill intake East	Mill Building / Processing Area	Steady	Area	Measured [Note 1c]	92	96	92	90	88	86	82	76	65	100	91	60	60	60	0	
Mill_intake_N	Mill intake North	Mill Building / Processing Area	Steady	Area	Measured [Note 1c]	89	96	86	84	82	79	74	68	59	98	84	60	60	60	0	
Mill_BD10E	Mill Bay door 10E	Mill Building / Processing Area	Steady	Vertical Area	Measured [Note 1c]	98	98	97	96	94	90	86	80	72	104	96	60	60	60	0	
Mill_BD9E	Mill Bay door 9E	Mill Building / Processing Area	Steady	Vertical Area	Measured [Note 1c]	98	100	95	94	92	89	84	80	73	104	94	60	60	60	0	
Mill_BD27W	Mill Bay door 27W	Mill Building / Processing Area	Steady	Vertical Area	Measured [Note 1c]	93	104	91	90	89	86	85	86	82	105	93	60	60	60	0	
Mill_BD18W	Mill Bay door 18W	Mill Building / Processing Area	Steady	Vertical Area	Measured [Note 1c]	103	106	105	104	103	98	95	91	85	112	104	60	60	60	0	

Notes

- 1a: Sound level estimated using manufacturer data.
- 1b: Measured Sound Levels from previous AAR by Amec Foster Wheeler, dated January 2018.
- 1c: Measured by Trinity and/or New Gold

**New Gold Inc. - Rainy River Mine
Acoustic Assessment Report**

Appendix E - Noise Sources & Calculations

Table E-3: Cadna Input Summary for Receptors

POR ID	POR Description	X Coordinate (m)	Y Coordinate (m)	POR elevation (m)	Height of POR Above Grade (m)
POR1	House 01 – North - 2nd Storey POR	424437.0	5415498.0	382.9	4.5
POR1a	House 01 – North - Outdoor POR	424431.2	5415466.6	380.0	1.5
POR3	House 03 – East - 2nd Storey POR	431587.0	5411870.0	387.0	4.5
POR3a	House 03 – East - Outdoor POR	431559.7	5411858.4	384.0	1.5
POR4	House 04 – East - 2nd Storey POR	431496.0	5411644.0	386.8	4.5
POR4a	House 04 – East - Outdoor POR	431470.7	5411627.1	383.8	1.5
POR6	House 06 – Southeast - 2nd Storey POR	431077.0	5408660.0	380.2	4.5
POR6a	House 06 – Southeast - Outdoor POR	431048.6	5408674.3	377.2	1.5
POR7	House 07 – South - 2nd Storey POR	431034.0	5406873.0	377.0	4.5
POR7a	House 07 – South - Outdoor POR	431021.2	5406876.1	374.0	1.5
POR8	House 08 – South - 2nd Storey POR	430117.0	5406700.0	376.4	4.5
POR8a	House 08 – South - Outdoor POR	430109.8	5406728.0	373.5	1.5
POR9	House 09 – South - 2nd Storey POR	429796.0	5406515.0	375.7	4.5
POR9a	House 09 – South - Outdoor POR	429793.4	5406545.7	372.8	1.5
POR10	House 10 – South - 2nd Storey POR	429116.0	5406626.0	376.1	4.5
POR10a	House 10 – South - Outdoor POR	429112.9	5406656.1	373.2	1.5
POR11	House 11 – South - 2nd Storey POR	428590.0	5406620.0	376.1	4.5
POR11a	House 11 – South - Outdoor POR	428581.2	5406648.4	373.2	1.5
POR12	House 12 – South - 2nd Storey POR	428175.0	5406947.0	377.3	4.5
POR12a	House 12 – South - Outdoor POR	428162.7	5406976.0	374.4	1.5
POR14	House 14 – South - 2nd Storey POR	427450.0	5406952.0	377.3	4.5
POR14a	House 14 – South - Outdoor POR	427455.1	5406979.9	374.4	1.5
POR15	House 15 – West - 2nd Storey POR	419623.0	5410178.0	357.9	4.5
POR15a	House 15 – West - Outdoor POR	419621.2	5410207.5	355.6	1.5
POR16	House 16 – West - 2nd Storey POR	419645.0	5410314.0	360.5	4.5
POR16a	House 16 – West - Outdoor POR	419635.0	5410341.4	357.5	1.5
POR17	House 17 – Northwest - 2nd Storey POR	419827.0	5413577.0	370.9	4.5
POR17a	House 17 – Northwest - Outdoor POR	419848.0	5413553.6	367.8	1.5
POR19	Vacant Lot Near Pinewood River	416140.0	5407200.0	355.9	4.5
POR20	Vacant Lot 56041-0138	425325.0	5406877.0	370.2	4.5
POR21	Vacant Lot 56036-0023	429474.0	5408438.0	384.5	4.5
POR22	Vacant Lot 56036-0184	428602.0	5406751.0	376.6	4.5
POR23	Vacant Lot 56041-0037	424360.0	5407033.0	355.4	4.5
POR24	Vacant Lot 56041-0135	425216.0	5406873.0	368.7	4.5
POR25	Vacant Lot 56041-0139	426034.7	5406944.5	374.1	4.5

WP24	Water Pump WP24	Point	423783.1	5411479.4	357.5	1.5	4071	4040	7814	7786	7715	7689	7620	7788	8590	8578	8935	7912	7797	7776	7211	7188	6835	6809	6311	6282	5826	5808	4359	4352	4299	4301	4478	4448	8760	4854	6453	6751	4484	4824	5063	
WP25	Water Pump WP25	Point	426349.2	5411801.4	373.5	1.5	4162	4137	5238	5211	5149	5125	4676	4644	6589	6789	6932	6312	6311	6284	5869	5841	5645	5616	5186	5155	4973	4947	6919	6914	6867	6871	6760	6733	71198	5030	4591	5530	5167	5057	4867	
WP26	Water Pump WP26	Point	426397.4	5411225.1	365.5	1.5	4701	4675	5229	5201	5116	5089	5336	5205	6350	6348	5558	5538	5808	5782	5742	5742	5315	5100	5071	4633	4601	4401	4375	6855	6852	6814	6820	6979	6951	11019	4478	4151	4988	4661	4510	4296
WP27	Water Pump WP27	Point	426380.9	5410500.7	365.5	1.5	5362	5335	5383	5354	5241	5213	5044	5012	9900	5888	5330	5304	5249	5224	4743	4716	4465	4436	3981	3949	3706	3681	6766	6766	6738	6748	7240	7211	10760	3774	3718	4358	4014	3810	3573	
WP28	Water Pump WP28	Point	422605.6	5411365.5	353.7	1.5	4520	4489	4896	4868	4895	4869	4893	8862	9551	9538	8842	8821	8673	8654	8053	8033	7638	7613	7109	7082	6553	6538	3210	3201	3142	3142	3551	3520	7691	5248	7466	7566	4674	5196	5595	
TD_WMRS	Track Dozer WMRS (Komatsu D475)	Point	423524.4	5410656.4	375.0	3.0	5016	4984	8167	8139	8044	8017	7789	7758	8368	8355	7642	7622	7466	7447	6840	6820	6421	6396	5898	5865	5335	5320	3921	3920	3888	3896	4769	4738	8115	4104	6319	6351	3630	4061	4406	
CP_JC	Frank Crushing Plant - Jaw Crusher	Point	423481.9	5411504.9	379.0	3.0	4106	4074	8113	8086	8015	7990	8110	8079	8859	8847	8192	8170	8048	8027	7453	7431	7068	7042	6542	6513	6039	6022	4081	4073	4017	4019	4201	4172	8511	4981	6731	6987	4557	4946	5226	
CP_S	Frank Crushing Plant - Screener	Point	423486.0	5411487.7	379.0	3.0	4122	4090	8110	8082	8012	7986	8101	8069	8847	8834	8179	8156	8034	8013	7439	7417	7053	7027	6527	6498	6024	6006	4079	4071	4016	4018	4214	4184	8506	4964	6720	6972	4540	4928	5209	
CP_Gen	Frank Crushing Plant - Generator	Point	423468.8	5411480.3	378.4	2.8	4133	4101	8128	8100	8029	8003	8114	8083	8858	8845	8188	8166	8043	8022	7447	7425	7060	7034	6534	6506	6030	6012	4060	4053	3998	3999	4202	4172	8487	4963	6732	6980	4536	4927	5211	
CP_loader	Frank Crushing Plant - John Deer 844K	Point	423470.4	5411519.7	378.4	2.4	4094	4062	8124	8096	8027	8001	8126	8095	8877	8864	8180	8188	8066	8045	7471	7449	7086	7060	6561	6532	6038	6041	4075	4067	4010	4012	4184	4154	8509	4999	6748	7005	4574	4964	5245	
Intake	Fresh Air Intake	Point	427222.4	5409998.9	392.0	4.0	6164	6139	4749	4719	4579	4550	4080	4049	4929	4918	4389	4363	4331	4305	3868	3840	3645	3616	3197	3166	3055	3028	7602	7604	7584	7595	8216	8186	11430	3643	2740	3529	4122	3714	3277	
Mat_drop	Material Drop	Point	426756.6	5410231.9	394.0	2.0	5754	5728	5101	5071	4945	4916	4597	4566	5439	5427	4875	4850	4431	4401	4776	4749	4282	4251	3578	3547	3352	3326	7134	7135	7112	7122	7695	7666	11041	3648	3256	3940	3997	3695	3366	
WP29	Water Pump WP29	Point	422431.9	5414219.8	373.5	1.5	2378	2356	9452	9428	9423	9403	10279	10247	11312	11301	10752	10727	10658	10634	10116	10092	9782	9754	9267	9237	8832	8812	4922	4899	4798	4782	2683	2668	9427	7892	9112	9688	7441	7857	8118	
WP30	Water Pump WP30	Point	422733.1	5414525.7	377.5	1.5	1962	1941	9244	9221	9225	9206	10199	10168	11290	11279	10759	10734	10680	10655	10156	10131	9839	9811	9330	9299	8922	8901	5346	5323	5223	5206	3057	3048	9856	8076	9083	9741	7667	8045	8269	
WP31	Water Pump WP31	Point	423152.3	541446.8	377.5	1.5	1864	1838	8737	8713	8711	8692	9639	9607	10725	10714	10196	10171	10118	10094	9958	9573	9286	9257	8779	8748	8381	8359	5311	5290	5195	5182	3374	3357	9871	7588	8518	9187	7216	7561	7758	
WP32	Water Pump WP32	Point	424000.2	5413175.7	377.5	1.5	2363	2331	7698	7673	7651	7629	8395	8363	9444	9433	8908	8882	8829	8804	8311	8285	8003	7974	7498	7467	7116	7094	5305	5290	5211	5205	4192	4169	9874	6436	7239	7903	6153	6419	6555	
WP33	Water Pump WP33	Point	424428.7	5412991.8	378.8	1.5	2506	2475	7246	7221	7195	7173	7935	7903	9004	8992	8482	8456	8412	8386	7905	7879	7610	7582	7110	7082	6753	6731	5569	5555	5482	5478	4639	4615	10112	6180	6796	7508	5959	6169	6257	
WP34	Water Pump WP34	Point	424667.3	5412788.3	381.5	1.5	2719	2689	6980	6955	6924	6902	7624	7592	8691	8679	8177	8145	8103	8078	7600	7574	7310	7281	6814	6782	6466	6443	5680	5668	5599	5596	4904	4880	10195	5948	6483	7206	5764	5941	6002	
WP35	Water Pump WP35	Point	424369.2	5411872.2	357.5	1.5	3626	3595	7218	7190	7130	7106	7347	7305	8331	8319	7732	7708	7626	7602	7075	7051	6738	6710	6224	6194	5805	5784	5040	5031	4975	4976	4852	4824	9463	5086	6152	6644	4839	5070	5202	
WP36	Water Pump WP36	Point	422091.6	5411472.6	361.5	1.5	4659	4629	9504	9476	9406	9380	9415	9384	10056	10043	9337	9317	9162	9143	8534	8515	8110	8086	7582	7555	7011	6997	2787	2775	2707	2704	3091	3060	7326	5619	7982	8042	4986	5560	6004	
WP37	Water Pump WP37	Point	423607.8	5411433.5	367.8	1.5	4148	4116	7991	7963	7891	7865	7968	7936	8715	8702	8048	8026	7905	7884	7311	7289	6928	6902	6402	6373	5903	5885	4178	4171	4118	4120	4346	4316	8584	4869	6587	6846	4464	4836	5103	
WP38	Water Pump WP38	Point	422597.8	5411707.9	359.4	1.5	4213	4182	8991	8963	8898	8873	9010	8979	9273	9211	9034	9013	8876	8856	8265	8244	7861	7836	7333	7305	6794	6778	3345	3333	3265	3263	3342	3312	7876	5548	7614	7786	4996	5498	5874	
WP39	Water Pump WP39	Point	424059.4	5410643.7	355.7	1.5	4869	4837	7627	7598	7504	7476	7293	7261	9279	9216	7228	7207	7068	7048	6458	6437	6059	6034	5532	5504	5012	4995	4461	4460	4427	4425	5150	5119	8636	3974	5847	5982	3623	3944	4193	
WP40	Water Pump WP40	Point	423676.0	5409109.9	345.5	1.5	6433	6401	8379	8349	8220	8191	7415	7385	7691	7677	6877	6861	6647	6627	6633	5980	5965	5509	5488	4992	4968	4347	4338	4191	4201	4207	4224	5897	5865	7774	2776	5837	5462	2187	2716	3202
WP41	Water Pump WP41	Point	426855.9	5408538.3	358.9	1.5	7368	7340	5787	5758	5584	5553	4223	4195	4498	4485	3744	3724	3649	3650	2961	2939	2586	2559	2067	2037	1694	1670	7416	7425	7426	7443	8648	8618	10799	2259	2620	2499	2915	2337	1793	
EG1	Emergency Generator 1	Point	426706.9	5411204.4	374.5	4.5	4857	4832	4925	4897	4809	4783	5057	5025	6123	6111	5650	5623	5615	5588	5174	5146	4956	4927	4503	4472	4317	4290	7158	7155	7118	7124	7277	7250	11300	4543	3913	4840	4786	4581	4313	
EG2	Emergency Generator 2	Point	426709.0	541190.1	373.7	4.5	4870	4845	4925	4897	4808	4782	5048	5016	6111	6100	5637	5610	5602	5575	5176	5132	4942	4927	4489	4458	4302	4276	7158	7156	7118	7125	7284	7257	11297	4530	3901	4826	4775	4568	4299	
FP1	Fire Pump 1	Point	426802.0	5411035.8	379.0	3.0	5050	5025	4857	4828	4733	4706	4881	4859	5936	5925	5458	5431	5422	5395	4980	4952	4764	4734	4313	4282	4135	4108	7230	7228	7193	7201	7423	7396	11331	4413	3727	4648	4689	4455	4163	
FP2	Fire Pump 2	Point	426800.5	5411020.4	379.0	3.0	5063	5038	4861	4832	4737	4710	4895	4885	5927																											

APPENDIX F. SUPPORTING INFORMATION FOR NOISE DATA

PACKAGE DATA [C13DE50]

OCTOBER 13, 2020

For Help Desk Phone Numbers [Click here](#)

Feature Code:	C13DE50	Rating Type:	STANDBY	Sales model Package:	PGS350S
Engine Sales Model:	C13	Engine Arrangement Number:	4343726	Hertz:	60
EKW W/F:	350.0	Noise Reduction:	0 dBA	Back Pressure:	0.0 inH2O

Engine Package Information

Engine Package Data

Source: MBPA_Genset

Package Cooling Information

Open Cooling Data

% Load	Airflow Rate scfm			Ambient Capability Sea Level (Deg F)			Ambient Capability 300 m (Deg F)			Ambient Capability 600 m (Deg F)			Ambient Capability 900 m (Deg F)		
	0	1/2	3/4	0	1/2	3/4	0	1/2	3/4	0	1/2	3/4	0	1/2	3/4
	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O	inH2O
100.0	17021	14055	12289	149	143	141	145	140	138	141	136	134	138	132	131
75.0	17021	14055	12289	161	156	152	158	152	149	154	149	145	150	145	141
50.0	17021	14055	12289	172	168	165	168	165	161	165	161	158	161	158	154
25.0	17021	14055	12289	185	179	177	181	176	174	177	172	170	174	168	167

SA Level 1 Canopy Cooling Data

% Load	Airflow Rate scfm	Ambient Capability Sea Level (Deg F)	Ambient Capability 300 m (Deg F)	Ambient Capability 600 m (Deg F)	Ambient Capability 900 m (Deg F)
100.0	18010	138	136	122	113
75.0	18010	140	140	140	140

SA Level 2 Canopy Cooling Data

% Load	Airflow Rate scfm	Ambient Capability Sea Level (Deg F)	Ambient Capability 300 m (Deg F)	Ambient Capability 600 m (Deg F)	Ambient Capability 900 m (Deg F)
100.0	15255	138	136	122	113
75.0	15255	140	140	140	140

WP Canopy - Critical Cooling Data

% Load	Airflow Rate scfm	Ambient Capability Sea Level (Deg F)	Ambient Capability 300 m (Deg F)	Ambient Capability 600 m (Deg F)	Ambient Capability 900 m (Deg F)
100.0	17904	138	136	122	113
75.0	17904	140	140	140	140

Package Sound Information

Sound Comments :

Open Sound Data

Distance: 3.3 Feet

EKW W/F	% LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
350.0	100.0	103.1	94.0	95.3	99.6	96.7	96.5	95.8	93.2	97.9
262.5	75.0	102.8	92.5	94.0	99.6	96.5	96.2	94.9	92.2	98.3
175.0	50.0	102.2	91.5	92.9	99.5	96.3	95.9	94.2	90.9	95.9
87.5	25.0	101.3	91.1	92.1	99.3	96.2	95.6	93.6	89.5	90.5

Distance: 23.0 Feet

EKW W/F	% LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
350.0	100.0	93.1	84.0	85.3	89.6	86.7	86.5	85.8	83.2	87.9
262.5	75.0	92.8	82.5	84.0	89.6	86.5	86.2	84.9	82.2	88.3
175.0	50.0	92.2	81.5	82.9	89.5	86.3	85.9	84.2	80.9	85.9
87.5	25.0	91.3	81.1	82.1	89.3	86.2	85.6	83.6	79.5	80.5

Distance: 49.2 Feet

EKW W/F	% LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
350.0	100.0	87.1	78.0	79.3	83.6	80.7	80.5	79.8	77.2	81.9
262.5	75.0	86.8	76.5	78.0	83.6	80.5	80.2	78.9	76.2	82.3
175.0	50.0	86.2	75.5	76.9	83.5	80.3	79.9	78.2	74.9	79.9
87.5	25.0	85.3	75.1	76.1	83.3	80.2	79.6	77.6	73.5	74.5

SA Level 1 Canopy Sound Data

Distance: 23.0 Feet

EKW W/F	% LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
350.0	100.0	74.0	75.6	72.8	69.8	62.2	59.4	59.6	55.8	69.5
262.5	75.0	74.0	74.0	74.9	73.1	69.5	62.1	59.7	57.4	72.6
175.0	50.0	72.0	73.7	72.4	68.8	61.9	59.4	56.8	52.9	46.8
87.5	25.0	71.0	73.5	72.0	68.6	61.4	59.4	56.9	53.1	44.2

SA Level 2 Canopy Sound Data

Distance: 23.0 Feet

EKW W/F	% LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
350.0	100.0	70.0	75.0	73.0	67.0	58.0	56.0	53.0	51.0	62.0
262.5	75.0	69.0	74.0	73.0	97.0	58.0	55.0	53.0	51.0	61.0

WP Canopy - Critical Sound Data

Distance: 23.0 Feet

EKW W/F	% LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
350.0	100.0	87.0	80.0	76.0	77.0	72.0	72.0	70.0	69.0	85.0
262.5	75.0	87.0	78.0	79.0	77.0	72.0	72.0	70.0	68.0	84.0
175.0	50.0	83.0	76.0	75.0	77.0	71.0	72.0	69.0	65.0	62.0
87.5	25.0	81.0	73.0	74.0	76.0	70.0	72.0	69.0	66.0	58.0

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GEN SET PACKAGE PERFORMANCE DATA [DM8266]

Performance Number: DM8266

Sales Model: 3516CDITA	Combustion: DI	Aspr: TA
Engine Power: 2500 W/F EKW 2593 W/O F EKW 3,622 HP	Speed: 1,800 RPM	After Cooler: ATAAC
Manifold Type: DRY	Governor Type: ADEM3	After Cooler Temp(F): 122
Turbo Quantity: 4	Engine App: GP	Turbo Arrangement: Parallel
Hertz: 60	Engine Rating: PGS	Strategy:
Rating Type: STANDBY	Certification: EPA TIER-2 2006 -	

General Performance Data

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	ENGINE BMEP PSI	FUEL RATE LB/BHP-HR	FUEL RATE GPH	INTAKE MFLD TEMP DEG F	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH MFLD TEMP DEG F	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
2,500.0	100	3604	333	0.337	173.3	122.0	78.2	6,992.3	1,236.7	921.9	19,048.8
2,250.0	90	3256	301	0.337	156.7	119.3	71.3	6,600.3	1,190.3	889.0	17,516.1
2,000.0	80	2911	269	0.341	141.9	117.0	64.3	6,183.6	1,159.0	871.0	16,167.1
1,875.0	75	2738	253	0.344	134.6	115.9	60.8	5,961.1	1,145.8	864.7	15,506.7
1,750.0	70	2566	237	0.347	127.3	114.6	57.1	5,731.6	1,133.6	859.6	14,846.3
1,500.0	60	2223	205	0.355	112.8	112.8	49.6	5,254.8	1,112.0	853.0	13,522.0
1,250.0	50	1880	174	0.366	98.4	111.0	41.5	4,739.2	1,091.7	848.5	12,144.7
1,000.0	40	1545	143	0.375	82.8	109.4	31.8	4,075.3	1,062.9	848.1	10,439.0
750.0	30	1203	111	0.387	66.5	108.0	22.0	3,404.3	1,012.8	837.9	8,627.4
625.0	25	1029	95	0.396	58.2	107.2	17.4	3,086.5	970.9	818.2	7,702.1
500.0	20	854	79	0.406	49.5	106.3	12.9	2,772.2	905.7	782.2	6,723.9
250.0	10	496	46	0.443	31.4	104.2	4.8	2,193.0	702.9	643.5	4,693.3

Heat Rejection Data

GEN W/F EKW	PERCENT LOAD	REJ TO JW BTU/MN	REJ TO ATMOS BTU/MN	REJ TO EXHAUST BTU/MN	EXH RCOV TO 350F BTU/MN	FROM OIL CLR BTU/MN	FROM AFT CLR BTU/MN	WORK ENERGY BTU/MN	LHV ENERGY BTU/MN	HHV ENERGY BTU/MN
2,500.0	100	47,202	9,156	140,924	75,921	18,596	43,392	152,866	371,872	396,156
2,250.0	90	44,245	8,587	127,047	67,163	16,833	38,046	138,080	336,328	358,280
2,000.0	80	41,458	8,303	115,901	60,566	15,241	33,155	123,408	304,481	324,386
1,875.0	75	40,093	8,189	110,555	57,609	14,445	30,767	116,128	288,899	307,780
1,750.0	70	38,672	8,076	105,266	54,766	13,649	28,321	108,792	273,260	291,117
1,500.0	60	35,885	7,791	94,916	49,420	12,113	23,601	94,233	242,152	257,962
1,250.0	50	32,871	7,564	84,566	44,074	10,578	18,824	79,732	211,101	224,864
1,000.0	40	29,515	7,336	72,566	37,762	8,872	13,478	65,514	177,718	189,320
750.0	30	25,648	6,881	59,258	30,823	7,109	8,474	51,012	142,743	152,070
625.0	25	23,544	6,597	52,150	26,729	6,256	6,426	43,676	124,886	133,019
500.0	20	21,156	6,142	44,245	22,009	5,289	4,550	36,169	106,119	113,057
250.0	10	15,867	5,118	27,525	11,601	3,355	1,763	21,042	67,277	71,656

EXHAUST Sound Data: 6.6 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,500.0	100	119	109	124	120	112	110	112	111	109
2,250.0	90	118	108	123	119	111	109	111	110	108
2,000.0	80	117	107	122	118	110	108	109	109	107
1,875.0	75	116	106	121	117	109	107	109	109	107
1,750.0	70	115	106	120	116	108	107	108	108	106
1,500.0	60	114	104	119	115	107	106	107	107	105
1,250.0	50	113	103	118	114	106	104	106	105	103
1,000.0	40	111	102	116	112	104	103	104	104	102
750.0	30	110	100	115	111	103	101	102	102	100
625.0	25	109	99	114	110	102	100	101	101	99
500.0	20	108	98	113	109	101	99	100	100	98
250.0	10	105	95	110	106	98	97	98	98	96

EXHAUST Sound Data: 23.0 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,500.0	100	105	97	113	108	99	97	98	98	95
2,250.0	90	104	96	112	107	98	96	97	97	94
2,000.0	80	103	95	111	105	97	95	96	96	93
1,875.0	75	103	94	111	105	96	95	95	95	92
1,750.0	70	102	93	110	104	96	94	95	95	92
1,500.0	60	101	92	109	103	94	93	93	93	91
1,250.0	50	99	91	107	102	93	91	92	92	89
1,000.0	40	98	89	106	100	92	90	91	90	88
750.0	30	96	88	104	98	90	88	89	89	86
625.0	25	95	87	103	97	89	87	88	88	85
500.0	20	94	86	102	96	88	86	87	87	84
250.0	10	92	83	100	94	85	84	84	84	82

EXHAUST Sound Data: 49.2 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,500.0	100	99	90	107	101	92	91	91	91	89
2,250.0	90	98	89	106	100	91	90	90	90	88
2,000.0	80	97	88	105	99	90	89	89	89	86
1,875.0	75	96	87	104	98	90	88	89	89	86
1,750.0	70	95	87	103	98	89	87	88	88	85
1,500.0	60	94	86	102	96	88	86	87	87	84
1,250.0	50	93	84	101	95	86	85	85	85	83
1,000.0	40	91	83	99	93	85	83	84	84	81
750.0	30	90	81	98	92	83	82	82	82	79
625.0	25	89	80	97	91	82	81	81	81	78
500.0	20	88	79	96	90	81	80	80	80	77
250.0	10	85	77	93	87	79	77	78	78	75

MECHANICAL Sound Data: 3.3 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,500.0	100	117	121	130	121	111	104	102	100	103
2,250.0	90	117	121	130	121	111	104	102	100	103
2,000.0	80	117	121	130	121	111	104	102	100	103
1,875.0	75	117	121	130	121	111	104	102	100	103
1,750.0	70	117	121	130	121	111	104	102	100	103
1,500.0	60	117	121	130	121	111	104	102	100	103
1,250.0	50	117	121	130	121	111	104	102	100	103
1,000.0	40	117	121	130	121	111	104	102	100	103
750.0	30	117	121	130	121	111	104	102	100	103
625.0	25	117	121	130	121	111	104	102	100	103
500.0	20	117	121	130	121	111	104	102	100	103
250.0	10	117	121	130	121	111	104	102	100	103

MECHANICAL Sound Data: 23.0 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCJ 8000HZ DB
2,500.0	100	103	107	116	107	98	91	90	88	92
2,250.0	90	103	107	116	107	98	91	90	88	92
2,000.0	80	103	107	116	107	98	91	90	88	92
1,875.0	75	103	107	116	107	98	91	90	88	92
1,750.0	70	103	107	116	107	98	91	90	88	92
1,500.0	60	103	107	116	107	98	91	90	88	92
1,250.0	50	103	107	116	107	98	91	90	88	92
1,000.0	40	103	107	116	107	98	91	90	88	92
750.0	30	103	107	116	107	98	91	90	88	92
625.0	25	103	107	116	107	98	91	90	88	92
500.0	20	103	107	116	107	98	91	90	88	92
250.0	10	103	107	116	107	98	91	90	88	92

MECHANICAL Sound Data: 49.2 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,500.0	100	97	100	110	100	91	85	85	82	86
2,250.0	90	97	100	110	100	91	85	85	82	86
2,000.0	80	97	100	110	100	91	85	85	82	86
1,875.0	75	97	100	110	100	91	85	85	82	86
1,750.0	70	97	100	110	100	91	85	85	82	86
1,500.0	60	97	100	110	100	91	85	85	82	86
1,250.0	50	97	100	110	100	91	85	85	82	86
1,000.0	40	97	100	110	100	91	85	85	82	86
750.0	30	97	100	110	100	91	85	85	82	86
625.0	25	97	100	110	100	91	85	85	82	86
500.0	20	97	100	110	100	91	85	85	82	86
250.0	10	97	100	110	100	91	85	85	82	86

EMISSIONS DATA

EPA TIER-2 2006 - ***** B5
 Gaseous emissions data measurements are consistent with those described in EPA 40 CFR PART 89 SUBPART D and ISO 8178 for measuring HC, CO, PM, and NOx.

Gaseous emissions values are WEIGHTED CYCLE AVERAGES and are in compliance with the following non-road regulations:

LOCALITY	AGENCY/LEVEL	MAX LIMITS - g/kw-hr		
U.S. (incl Calif)	EPA/TIER-2	CO:3.5	NOx + HC:6.4	PM:0.20

EXHAUST STACK DIAMETER	12 IN
WET EXHAUST MASS	32,253.6 LB/HR
WET EXHAUST FLOW (921.20 F STACK TEMP)	19,059.34 CFM
WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	6,611.00 STD CFM
DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	6,056.47 STD CFM
FUEL FLOW RATE	172 GAL/HR

RATED SPEED "Nominal Data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	TOTAL CO2 LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,500.0	100	3604	40.09	3.25	0.80	3,715.1	0.280	9.30	1.5	1.28
1,875.0	75	2738	24.68	1.55	0.81	2,871.2	0.190	10.40	1.3	1.28
1,250.0	50	1880	12.36	1.31	0.88	2,088.2	0.200	11.30	1.7	1.28
625.0	25	1029	6.37	1.81	0.67	1,225.7	0.220	12.20	2.5	1.28
250.0	10	496	5.54	2.50	0.71	642.6	0.220	14.30	3.6	1.28

RATED SPEED "Nominal Data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BKW	TOTAL NOX (AS NO2) G/HP-HR	TOTAL CO G/HP-HR	TOTAL HC G/HP-HR	PART MATTER G/HP-HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,500.0	100	2,687.7	5.05	0.41	0.10	0.04	9.30	1.5	1.28
1,875.0	75	2,042.0	4.09	0.26	0.13	0.03	10.40	1.3	1.28
1,250.0	50	1,401.8	2.98	0.31	0.21	0.05	11.30	1.7	1.28
625.0	25	767.6	2.81	0.80	0.29	0.10	12.20	2.5	1.28
250.0	10	369.8	5.06	2.29	0.64	0.20	14.30	3.6	1.28

RATED SPEED "Not to exceed data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,500.0	100	3604	48.11	5.86	1.07	.400	9.30	1.5	1.28
1,875.0	75	2738	29.62	2.78	1.08	.260	10.40	1.3	1.28
1,250.0	50	1880	14.84	2.35	1.17	.280	11.30	1.7	1.28
625.0	25	1029	7.65	3.25	0.89	.310	12.20	2.5	1.28
250.0	10	496	6.64	4.50	0.94	.300	14.30	3.6	1.28

RATED SPEED "Nominal Data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	TOTAL CO2 LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,500.0	100	3604	40.09	3.25	0.80	3,715.1	0.280	9.30	1.5	1.28
1,875.0	75	2738	24.68	1.55	0.81	2,871.2	0.190	10.40	1.3	1.28
1,250.0	50	1880	12.36	1.31	0.88	2,088.2	0.200	11.30	1.7	1.28
625.0	25	1029	6.37	1.81	0.67	1,225.7	0.220	12.20	2.5	1.28
250.0	10	496	5.54	2.50	0.71	642.6	0.220	14.30	3.6	1.28

RATED SPEED "Nominal Data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BKW	TOTAL NOX (AS NO2) G/HP-HR	TOTAL CO G/HP-HR	TOTAL HC G/HP-HR	PART MATTER G/HP-HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,500.0	100	2,687.7	5.05	0.41	0.10	0.04	9.30	1.5	1.28
1,875.0	75	2,042.0	4.09	0.26	0.13	0.03	10.40	1.3	1.28
1,250.0	50	1,401.8	2.98	0.31	0.21	0.05	11.30	1.7	1.28
625.0	25	767.6	2.81	0.80	0.29	0.10	12.20	2.5	1.28
250.0	10	369.8	5.06	2.29	0.64	0.20	14.30	3.6	1.28

FM-UL-cUL APPROVED RATINGS BHP/KW

2530-PU-1002-MO

JU6H MODEL	RATED SPEED								US-EPA (NSPS) Available Until
	1760		2100		2350		2400		
UFADMG			175	131	175	131			No Expiration
UFAD58	183	137							No Expiration
UFADNG	190	142	181	135	183	137	183	137	No Expiration
UFADN0	197	147	197	147	200	149	200	149	No Expiration
UFADP0			209	156	211	157	211	157	No Expiration
UFADP8	220	164							No Expiration
UFADQ0			224	167	226	169	226	169	No Expiration
UFAD88	237	177							No Expiration
UFADR0			238	177.5	240	179	240	179	No Expiration
UFADR8	250	187							No Expiration
UFADS8	260	194							No Expiration
UFADS0			260	194	268	200	268	200	No Expiration
UFADT0			274	204	275	205	275	205	No Expiration
UFADW8	282	211							No Expiration
UFADX8	305	227.5							No Expiration
UFAD98	315	235							No Expiration



Picture represents JU6H-TRWA Power Tech Plus Engine Series

● USA EPA (NSPS) Tier 3 Emissions Certified Off-Road (40 CFR Part 89) and NSPS Stationary (40 CFR Part 60 Sub Part III). Meet EU Stage IIIA emission levels.

◆ All Models available for Export

Source: FP1 and FP2

SPECIFICATIONS

ITEM	JU6H MODELS															
	MG	58	NG	N0	P8	88	P0	Q0	R0	S0	T0	R8	S8	W8	X8	98
Number of Cylinders	6															
Aspiration	TRWA															
Rotation*	CW															
Overall Dimensions – in. (mm)	45.8 (1163) H x 56.7 (1414) L x 36.7 (933) W								46.9 (1191) H x 58.6 (1488) L x 40.0 (1015) W							
Crankshaft Centerline Height – in. (mm)	14 (356)															
Weight – lb (kg)	1747 (791)															
Compression Ratio	19.0:1								17.0:1							
Displacement – cu. in. (L)	415 (6.8)															
Engine Type	4 Stroke Cycle – Inline Construction															
Bore & Stroke – in. (mm)	4.19 x 5.00 (106 x 127)															
Installation Drawing	D628															
Wiring Diagram AC	C07651															
Wiring Diagram DC	C071367, C072146, C071361								C071368, C072146, C071761							
Engine Series	John Deere 6068 Series Power Tech E								John Deere 6068 Series Power Tech Plus							
Speed Interpolation	N/A															

Abbreviations: CW – Clockwise TRWA – Turbocharged with Raw Water Aftercooling N/A - Not Available L – Length W – Width H - Height

*Rotation viewed from Heat Exchanger / Front of engine

CERTIFIED POWER RATING

- Each engine is factory tested to verify power and performance.
- FM-UL power ratings are shown at specific speeds, Clarke engines can be applied at a single rated RPM setting ± 50 RPM.

ENGINE RATINGS BASELINES

- Engines are to be used for stationary emergency standby fire pump service only. Engines are to be tested in accordance with NFPA 25.
- Engines are rated at standard SAE conditions of 29.61 in. (752.1 mm) Hg barometer and 77°F (25°C) inlet air temperature [approximates 300 ft. (91.4 m) above sea level] by the testing laboratory (see SAE Standard J 1349).
- A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000 ft. (305 m) altitude above 300 ft. (91.4 m)
- A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F (5.6°C) above 77°F (25°C) ambient temperature.



JU6H-UFADX8 FIRE PUMP DRIVER NOISE DATA

Mechanical Engine Noise *

RPM	BHP	OVERALL dB(A)	Octave Band									
			31.5 Hz dB(A)	63 Hz dB(A)	125 Hz dB(A)	250 Hz dB(A)	500 Hz dB(A)	1k Hz dB(A)	2k Hz dB(A)	4k Hz dB(A)	8k Hz dB(A)	16k Hz dB(A)
1760	305	109.2	67.0	69.2	82.6	89.2	97.1	99.7	104.9	103.4	101.7	101.7

Raw Exhaust Engine Noise **

RPM	BHP	OVERALL dB(A)	Octave Band									
			31.5 Hz dB(A)	63 Hz dB(A)	125 Hz dB(A)	250 Hz dB(A)	500 Hz dB(A)	1k Hz dB(A)	2k Hz dB(A)	4k Hz dB(A)	8k Hz dB(A)	16k Hz dB(A)
1760	305	112.1		101.8	106.2	100.9	103.1	102.7	105.4	102.6	92.3	85.9

* Values above are provided at 3.3ft (1m) from engine block and do not include the raw exhaust noise.

** Values above are provided at 23ft (7m), 90 ° horizontal, from a vertical exhaust outlet and does not include noise created mechanically by the engine.

The above data reflects values for a typical engine of this model, speed and power in a free-field environment.

Installation specifics such as background noise level and amplification of noise levels from reflecting off of surrounding objects, will affect the overall noise levels observed. As a result of this, Clarke makes no guarantees to the above levels in an actual installation.

**APPENDIX G. AAR PREPARED BY AMEC FOSTER WHEELER DATED
JANURAY 2018**

NEW GOLD RAINY RIVER MINE
APPENDIX E
ACOUSTIC MONITORING RESULTS

RAINY RIVER PROJECT

UPDATED ACOUSTIC ASSESSMENT REPORT FOR EARLY OPERATIONS



Prepared for:
New Gold Inc.

Prepared by:
Amec Foster Wheeler
160 Traders Blvd., Suite 110
Mississauga, Ontario
L4Z 3K7

January 2018
TC111504



January 17, 2018

TC111504

Mr. Nigel Fisher, Environmental Superintendent
New Gold Inc.
Rainy River Project
317 Heatwole Road
Barwick, Ontario, Canada, P0W 1E0

Dear Mr. Fisher:

Re: Rainy River Project, Updated Acoustic Assessment Report for Early Operations

Amec Foster Wheeler Environment & Infrastructure, a Division of Amec Foster Wheeler Americas Limited, is pleased to provide the attached Updated Acoustic Assessment Report (AAR) for the Rainy River Project (RRP).

The original AAR was prepared in support of the Environmental Compliance Approval – Air and Noise and it addressed sound impacts from the development and operational phases. The current update addresses the RRP early operation phase which is a transitional phase from the development phase into operation. The current update also incorporates source sound data collected during our recent field measurements.

We greatly appreciate the opportunity to provide support for the Rainy River Project. Should you have any questions regarding the study, please do not hesitate to contact us.

Yours sincerely,

**Amec Foster Wheeler Environment & Infrastructure
a Division of Amec Foster Wheeler Americas Limited**

A handwritten signature in black ink, appearing to read "Dan Russell", written over a light blue horizontal line.

Dan Russell, P.Geol.
Senior Environmental Geoscientist

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EXECUTIVE SUMMARY

The Rainy River Project (RPP) site is within the Township of Chapple, approximately 65 kilometres (km), by road, northwest of Fort Frances within northwestern Ontario. Amec Foster Wheeler Environment & Infrastructure (Amec Foster Wheeler) was retained by New Gold Inc. (New Gold) to update the Acoustic Assessment Report (AAR) to satisfy the conditions in the Environmental Compliance Approval (ECA) for the RRP site. The RRP currently operates under ECA No. 0412-A2LR4V, issued on September 24, 2015.

The original AAR [1] was prepared in support of the ECA application and it addressed sound impacts from the development and operational phases. The RRP is currently in transition from the development phase to the operational phase. During this transitional phase some of the development phase activities will overlap with operation phase activities. The current update only addresses sound impacts from the RRP transition phase (early operations) as this aspect was not assessed in the original AAR. This report provides a complete AAR for the early operation phase. The life of mine operations will be assessed separately prior to start of underground mining operations.

The current update excludes the receptors (Points of Reception 05, 13, 18 and 26) which have been acquired by New Gold since the original AAR was prepared. The current update also incorporates source sound data collected from the field measurements on September 2017.

The main activities associated with the early operation phase include aggregate extraction, material handling, vehicle movement, plant operations, crushing operations and other mining fleet operations. However, the underground portal has yet to be developed and underground mining is expected to start in 2019. Therefore, sound sources associated with the underground operations are excluded from the current assessment, they will only be included with the assessment for life of mine operations.

A blast impact assessment was previously completed for the site by Amec Foster Wheeler under a separate cover [2]. An update of the blast impact assessment is not required as there are no changes to the blast location or charge size.

The RRP site operates 24 hours per day, 7 days per week. Nineteen types of significant sound sources were identified at the RRP site and included in this assessment. The emergency generators (EG1 and EG2) and fire pumps are assessed separately as required by the guidelines for the testing purpose only.

Twenty-two representative Points of Reception were identified and considered for this assessment, including six accessible vacant lot receptors.

The applicable guideline for the RRP site is the Ministry of the Environment and Climate Change (MOECC) Environmental Noise Guideline NPC-300, "Noise Assessment Criteria for Stationary Sources and for Land Use Planning." The RRP site is located in a rural area which is best

described as a Class 3 area in accordance with the area classifications defined within Publication NPC-300.

Receptor sound impacts associated with the RRP early operations were assessed through predictive acoustic modelling. The MOECC exclusionary sound level limits were used for this assessment. Under the predictable worst-case sound emission scenario, the RRP site is predicted to operate in compliance with the applicable MOECC NPC-300 guideline for day-time, evening and night-time during early operation phase.

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1.0 INTRODUCTION

Amec Foster Wheeler Environment & Infrastructure (Amec Foster Wheeler) was retained by New Gold Inc. (New Gold) to update the Acoustic Assessment Report (AAR) to support the Environmental Compliance Approval (ECA) for the Rainy River Project (RRP). The RRP currently operates under ECA No. 0412-A2LR4V, issued on September 24, 2015.

An AAR [1] was prepared by Amec Foster Wheeler in September 2014 in support of the ECA (Air and Noise) application, and it addressed sound impacts from development and operational phases. The RRP is currently in transition from the development phase to the operational phase. During this transitional phase some of the development phase activities will overlap with operational phase activities. The underground mining operations have not yet commenced but are expected to start in 2019. The current update only addresses sound impacts from the RRP transitional phase (early operations) as this aspect was not assessed in the original AAR. The life of mine operations will be assessed separately prior to start of underground mining operations.

The RRP site does not have any large sources of vibration other than blasting activity at the site. As such, this assessment focuses only on potential steady sound impacts from the RRP site. A blast impact assessment was previously completed for the site by Amec Foster Wheeler under a separate cover [2]. An update of the blast impact assessment is not required as there are no changes to the blast location or charge size.

The current update excludes the Points of Reception (PORs) 05, 13, 18 and 26 which have been acquired by New Gold since the original AAR was prepared. The current update also incorporates source sound data collected from the field measurements on September 2017. This report provides a complete AAR for the early operation and is intended to meet the Ministry of the Environment and Climate Change (MOECC) requirements outlined in References [3] and [4].

A completed copy of the Acoustic Assessment Report Checklist, as required by Reference [3], has been included in Appendix A.

An Emissions Summary and Dispersion Modelling Report (ESDM report) for the site was completed by Amec Foster Wheeler in support of the ECA application. Where possible, we have used the same source names and identification numbers in this AAR as those used within the ESDM report.

2.0 PROJECT DESCRIPTION

The RRP site is within the Township of Chapple, approximately 65 kilometres (km), by road, northwest of Fort Frances within northwestern Ontario. The maximum expected ore production during the operation phase is approximately 7,200 kilotonnes (kt) per year of ore and that includes both open pit and underground mining operations. In order to achieve the annual production rate, daily ore production rates may vary but is not expected to exceed 32 kt per day. The North American Industry Classification System (NAICS) code for the RRP site is 212220 described as “Gold and Silver Ore Mining.”

The RRP includes an open pit, underground mine, processing plant, and related facilities and infrastructure. Overburden and mine rock removed from the open pit are stored in stockpiles nearby. Ore is processed at the onsite processing plant. The RRP is currently in transition from development phase to operation. The current activities at the site include aggregate extraction, material handling, vehicle movement, plant operations, crushing operations and other mining fleet operations.

The area surrounding the RRP site is a rural area with an acoustical environment dominated by natural sounds having little or no road traffic. However, the receptors along Highway 600 experience high background sound levels during daytime from Highway 600 traffic.

The following figure and appendices provide information about the RRP site and points of reception location and surrounding land uses:

- Figure 1: Site Aerial Map with Points of Reception Location;
- Appendix B: Land-use Zoning Map of the Site and Surrounding Area; and
- Appendix C: Site Layout.

The RRP site operates 24 hours per day and 7 days per week.

3.0 SOUND SOURCE SUMMARY

There are 19 types of sound sources identified as significant (i.e., as emitting sound at a level where their cumulative impacts could be of concern) at the RRP site for the early operational phase. Where possible, the same source names and identification numbers as provided within the ESDM report have been used.

The significant sound sources identified are summarized below:

- 4 blast hole drills (2 Sandvik DR461i and 2 Sandvik DP1500i);
- 2 reverse circulation drills (Sandvik DR580);
- 6 diesel powered excavators (1 Komatsu PC8000, 2 Komatsu PC5500, 1 Komatsu PC3000, 1 Komatsu PC800LC and 1 Komatsu PC360LC);
- 15 track dozers (Komatsu D375, Komatsu D475, CAT D8, CAT D9, CAT D10 and CAT D11);
- 2 wheel loaders (Komatsu WA1200 and WA900);
- 1 wheel dozer (Komatsu KM WD600);
- 2 water trucks per hour on any haul routes (Komatsu CR20000);

- 1 motor grader per hour on any haul routes (CAT16H, 16M and 24M);
- 4 truck routes (Pit-PAG with 17 truck round trips/hour, Pit-NPAG/OB with 27 truck round trips/hour and Pit-stockpile with 6 truck round trips/hour) with Komatsu 830E trucks;
- 4 aggregate pits (LD4, Roen, Outcrop 3 and East Outcrop) each with portable a crusher, screener, loader, excavator and a truck route;
- 1 primary crusher;
- 2 dust collectors (primary and reclaim dust collectors);
- 1 wet scrubber (pebble crusher scrubber);
- 4 air compressors at Water Management Pond;
- 20 water pumps for dewatering operations in the pit and other areas;
- 1 power generator (CAT 660 kilowatts; kW) at Pinewood River pumphouse;
- 2 emergency generators (CAT 2,500 kW each) at the process plant;
- 2 fire pumps at the process plant; and
- 2 substation transformers at the process plant.

Sound emissions for many of the sources associated with the RRP were measured in the field by Amec Foster Wheeler (see Appendix D for measurements details). Where sound measurements were available the sound power levels were calculated from the measured levels. Sound levels for the generators, fire pumps and screeners were taken from manufacturer's datasheets. Komatsu 830E trucks with and without load were measured for the haul routes since the empty trucks were much quieter than the fully loaded trucks. Empty trucks were found to emit sound levels of approximately 11 decibel (dB) lower when compared with fully loaded trucks.

A summary of the significant sound sources is provided in Table 1, including sound power levels, sound characteristics, and any sound control measures. The locations of the sound sources considered in the assessment are shown in Figure 2.

The MOECC NPC-104 guideline prescribes adjustments for sources with special qualities or characters of sound. These are punitive adjustments which apply to sound sources with subjectively annoying characteristics, including tonal sounds, quasi-impulsive sounds, and beating sounds (sounds with cyclically varying amplitudes). Therefore, a tonal penalty of 5 dB was applied to the substation transformers, Komatsu D475 track dozers and Komatsu PC3000 excavator, as they exhibit tonal characteristics based on the mathematical qualification which is

outlined in Reference [5]. The measured equipment sound levels and sound calculations are provided in Appendix D.

All insignificant sound sources at the RRP site are listed in Appendix E.

Details of the RRP site sound sources are provided in the following table, figure and appendices:

- Table 1: Significant Sound Source Summary;
- Figure 2: Significant Sound Source Locations;
- Appendix D: Sound Measurement Details and Calculations; and
- Appendix E: List of Insignificant Sound Sources.

4.0 SOUND MITIGATION MEASURES SUMMARY

New Gold has taken a proactive approach to minimize sound impacts to neighbors and mitigation measures have been incorporated into the project from the onset of design. These measures are inherent to the current design of the RRP site and are reflected in the noise model predictions.

The sound pressure level of the emergency generators EG1 and EG2 is 80 A-weighted decibels (dBA) at 15 metres (m) and 74 dBA at 15 m for the power generator PG1 (660 kW).

As part of the sound mitigation, the following are considered for the RRP early operations:

- Aggregate pit operations are limited to daytime only (07:00 to 19:00), except for East Outcrop. Crushing operations at East Outcrop aggregate pit, and truck hauling/loading operations at all aggregate pits can be done 24 hours/day.
- The operation of the Komatsu D475 track dozers is limited to daytime only at the stockpiles (e.g., PAG, NPAG and ore stockpiles). Other track dozer models (e.g., Komatsu D375, CATD8, D9, or D10) can be used at those locations during evening and night-time periods (19:00 to 07:00).
- Emergency generators and fire pumps are expected to test during daytime only.
- Open pit bottom elevation is currently at 270 m which provides sufficient screening to the fleet equipment in the open pit.

The type of trucks used for the material handling and the number of round trips considered in the assessment are summarized in Appendix D.

5.0 POINT OF RECEPTION SUMMARY

Noise sensitive receptors of interest under NPC-300 guidelines include the following sound sensitive land uses:

- Permanent, seasonal, or rental residences;
- Hotels, motels and campgrounds;
- Schools, universities, libraries and daycare centres;
- Hospitals and clinics, nursing / retirement homes; and
- Churches and places of worship.

Three vacant lot receptors and one existing dwelling near Pinewood river (PORs 05, 13, 18 and 26) were acquired by New Gold since the original AAR was prepared. Therefore, these receptors have been removed from this assessment. A total of 22 representative (most-exposed) points of reception (PORs), including 6 accessible vacant lots, were identified and considered in this acoustic assessment. The existing dwellings identified in the area are two-storey houses.

The receptor location considered for the existing dwellings is given below:

- For the Plane of Window PORs, the receptor location is at 4.5 m above ground for a two-storey house (i.e., highest window level); and
- For the Outdoor PORs, the receptor location is at 1.5 m above ground within 30 m of a facade of a dwelling.

The receptor location for the vacant lots is chosen at 4.5 m height. The receptors presented for the existing dwellings in this report are the worst-impacted receptor location only. The PORs considered in the assessment are shown in Figure 1.

6.0 APPLICABLE SOUND GUIDELINES

The applicable guideline used for the RRP site is the MOECC Environmental Noise Guideline NPC-300, NPC-300 establishes four classes of acoustical environment to classify ambient background sound environment and establish class specific assessment sound level limits. The MOECC classifications, based on ambient background sound, are given below:

- Class 1 Area is used to describe an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the urban hum.
- Class 2 Area defines an area with an acoustical environment that has qualities representative of both Class 1 and Class 3 Areas. That means, absence of urban hum or a low ambient sound level is expected during early evening (i.e., between 19:00 and 23:00) than that in Class 1 Areas.
- Class 3 Area means a rural area with an acoustical environment dominated by natural sounds having little or no road traffic. Examples are small communities with populations of less than 1,000, agricultural areas, rural recreational areas, such as a cottage or a resort area, and wilderness areas.

- Class 4 Area is a newly classified area that would otherwise be defined as Class 1 (urban) or Class 2 (suburban). It has a relaxed criterion compared to any other Classes, is added for the new sound-sensitive developments in the industrial areas.

The area surrounding the RRP is best described as a Class 3 Area as per the guideline. NPC-300 states that non-impulsive (steady) one hour sound levels (L_{eq-1hr}) from stationary sound sources in Class 3 Areas shall not exceed that of the background, where the background (typically caused by natural sound sources) is considered to be:

- The higher of 45 dBA MOECC exclusionary sound level limit or background sound at both outdoor and plane of window receptor locations during day-time hours (07:00 to 19:00); and
- The higher of 40 dBA MOECC exclusionary sound level limit or background sound at both outdoor and plane of window receptor during the early evenings (19:00 to 23:00), and at the plane of window during night-time (23:00 to 07:00).

The guidelines also stipulate that the assessment consider the potential sound impact during a predictable worse case hour of operation, which is defined as a situation when the normally busy activity of the sources coincides with a low hourly background sound level. The MOECC's exclusionary sound limits were used for this assessment.

The non-emergency operation (i.e., testing and maintenance) of the emergency generators and fire pumps is assessed separately as required by the NPC-300 guidelines and a criterion of 50 dBA for Class 3 area is used for the assessment as they are tested during daytime hours only.

7.0 SOUND IMPACT ASSESSMENT

7.1 Methodology

The sound assessment for the RRP early operations was completed using a sound prediction software package (CadnaA), published by Datakustik GmbH and configured to implement the ISO 9613-2 environmental sound propagation algorithms. Off-site sound exposures due to the early operations were modelled. The CadnaA sound modelling software is widely accepted by the consulting industry and by the MOECC. All sound sources were assumed to operate simultaneously to model the predictable worst-case scenario.

In order to provide a better sound prediction at the receptor locations, due to sound emissions from a specific source(s), the modelling took into account the following factors:

- Source sound power level and directivity;
- Distance attenuation;
- Source-receptor geometry, including heights and elevations;
- Barrier effects of the building and surrounding topography;

- Ground and air (atmospheric) attenuation; and
- Foliage attenuation.

Komatsu 830E trucks with load and without are modelled separately for the haul routes since the sound levels measured for the empty trucks are about 11 dB lower than the fully loaded trucks. Water trucks and graders are modeled as line sources as they are moving along the haul routes within the site. For graders and track dozers, sound data for the loudest equipment model was used for this assessment to model the worst-case scenario without restricting operation of any of those equipment model to any particular area.

The predictable worst-case sound impact was modelled and assessed at the receptor locations. The RRP site operates 24 hours per day. However, the aggregate pits are expected to operate during daytime only, except loading and hauling. Therefore, the acoustic modelling has been completed for both daytime and night-time operations. The testing of emergency generators and fire pumps is assessed separately as required by the guidelines.

7.2 Modelling Results

The combined steady sound levels (L_{eq-1hr}) in dBA values for the predictable worst-case for the RRP early operations were calculated at the identified points of reception using sound emissions from the individual significant sources, as summarized in Table 1. The sound contours for the predictable worst-case operation are shown in Figures 3 through 5, and a point of reception impact summary is provided in Table 2 as required by the MOECC. The values provided in Table 2 represent individual contributions at the receptor locations from each of the sources identified in Table 1.

An acoustic assessment summary is provided in Table 3. Under the predicable worst-case sound emission scenario, the RRP early operations are predicted to be in compliance with the applicable MOECC NPC-300 guideline for day-time, evening and night-time operations. The sound levels at the receptors reported as part of this acoustic assessment represent the predictable worst-case operational impact. Key parameters included in the model and sample calculations are provided in Appendix F.

8.0 CONCLUSIONS

The AAR for the RRP early operations has been updated to address the changes during the RRP transition phase. Twenty-two PORs, including six accessible vacant lot receptors, are identified in the vicinity of the site and considered for this assessment. The existing PORs included in the assessment are 2-storey residential dwellings surrounding the site.

Receptor sound impact associated with the RRP early operations was assessed through predictive acoustic modelling. The MOECC exclusionary sound level limits were used as the criteria for the assessment. Under the predictable worst-case operational scenario, the RRP early operations sound levels at the receptor locations are expected to meet the applicable MOECC NPC-300 guideline limits for day-time, evening and night-time.

Therefore, the RRP early operations are expected to be in compliance with the applicable MOECC NPC-300 guideline sound level limits for day-time, evening and night-time.

9.0 REFERENCES

- [1] AMEC Environment & Infrastructure. 2014. Acoustic Assessment Report for Rainy River Project. September 2014.
- [2] AMEC Environment & Infrastructure. 2014. Blasting Vibration and Overpressure Sound Assessment Report for Rainy River Project. April 2013.
- [3] Ontario Ministry of the Environment and Climate Change (MOECC), *Guide for Applying for Approval (Air & Noise) s.9 EPA*, February 2005.
- [4] Ontario Ministry of the Environment and Climate Change (MOECC) Publication NPC-233, *Information to be Submitted for Approval of Stationary Sources of Sound*, October 1995.
- [5] ISO 1996-2:2007(E). *Description, measurement and assessment of environmental noise - Part 2: Determination of environmental noise levels*.
- [6] Ontario Ministry of the Environment and Climate Change (MOECC) Publication NPC-104, *Sound Level Adjustments*, published under the Model Municipal Noise Control Bylaw, 1977.
- [7] ISO-9613-1. *Acoustics – Attenuation of Sound during propagation outdoors. Part 1 – Calculation of the absorption of sound by the atmosphere*.
- [8] ISO-9613-2. *Acoustics – Attenuation of Sound during propagation outdoors. Part 2 – General method of calculation*.
- [9] Ontario Ministry of the Environment and Climate Change (MOECC) Publication NPC-300, *Noise Assessment Criteria for Stationary Sources and for Land Use Planning*, August 2013.

10.0 CLOSING

This updated acoustic assessment report was prepared by Amec Foster Wheeler for the sole benefit of New Gold Inc. for specific application to the Rainy River Project. The quality of information, conclusions and estimates contained herein are consistent with the level of effort involved in Amec Foster Wheeler's services and based on: i) information available at the time of preparation, ii) data supplied by outside sources and iii) the assumptions, conditions and qualifications set forth in this document.

This report is intended to be used by New Gold only, and its nominated representatives, subject to the terms and conditions of its contract with Amec Foster Wheeler. Any other use of, or reliance

on, this report by any third party is at that party's sole risk. This report has been prepared in accordance with generally accepted industry-standard. No other warranty, expressed or implied, is made.

If you require further information regarding the above or the project in general, please contact the undersigned at (905) 568-2929. Thank you for the opportunity to be of service to New Gold Inc.

Yours truly,

Amec Foster Wheeler Environment & Infrastructure
a Division of Amec Foster Wheeler Americas Limited

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Table 1: Noise Source Summary

Project: RRP
 Location: Township of Chapple ON



Source ID	Source Description	Sound Power Level	Source Location ^[1]	Sound Characteristics ^[2]	Noise Control Measures ^[3]
		(dBA/dBAI)	(I or O)	(S,Q,I,B,T,C)	(S,A,B,L,E,O,U)
AC1	WMP Air Compressor 1	99	O	S	U
AC2	WMP Air Compressor 2	99	O	S	U
AC3	WMP Air Compressor 3	99	O	S	U
AC4	WMP Air Compressor 4	99	O	S	U
BD1	Blast Hole Drill 1- Sandvik DR461i	121	O	S	U
BD2	Blast Hole Drill 2- Sandvik DR461i	121	O	S	U
BD3	Blast Hole Drill 3 - Sandvik DP1500i	117	O	S	U
BD4	Blast Hole Drill 4 - Sandvik DP1500i	117	O	S	U
C	Crusher	111	O	S	U
DC1	Dust Collector 1	105	O	S	U
DC2	Dust Collector 2	105	O	S	U
E1	Komatsu Diesel Excavator PC5500	116	O	S	U
E2	Komatsu Diesel Excavator PC5500	116	O	S	U
E3	Komatsu Diesel Excavator PC8000	121	O	S	U
E4	Komatsu Diesel Excavator PC3000	125	O	S, T	U
E5	Komatsu Diesel Excavator PC800LC	113	O	S	U
E6	Komatsu Diesel Excavator PC360LC	116	O	S	U
EO_E	East Outcrop Aggregate Pit Excavator PC360LC	116	O	S	U
EO_FEL	East Outcrop Graval Pit Mobile Crushing Plant Loader (CAT 966H)	114	O	S	U
EO_PS	East Outcrop Graval Pit Mobile Primary Crusher (PowerScreen)	119	O	S	U
EO_SCNR	East Outcrop Graval Pit Mobile Screener (Atlas Copco HCS3715)	102	O	S	U
LD4_E	LD4 Aggregate Pit Excavator PC360LC	116	O	S	U
LD4_FEL	LD4 Graval Pit Mobile Crushing Plant Loader (CAT 966H)	114	O	S	U
LD4_PS	LD4 Graval Pit Mobile Primary Crusher (PowerScreen)	119	O	S	U
LD4_SCNR	LD4 Graval Pit Mobile Screener (Atlas Copco HCS3715)	102	O	S	U
Outcrop3_E	Outcrop 3 Aggregate Pit Excavator PC360LC	116	O	S	U
Outcrop3_FEL	Outcrop 3 Graval Pit Mobile Crushing Plant Loader (CAT 966H)	114	O	S	U
Outcrop3_PS	Outcrop 3 Graval Pit Mobile Primary Crusher (PowerScreen)	119	O	S	U
Outcrop3_SCNR	Outcrop3 Graval Pit Mobile Screener (Atlas Copco HCS3715)	102	O	S	U
PG1	Pinewood River Pumphouse Generator (CAT 660 kW)	105	O	S	E,S
RD1	RC Drill Sandvik DR580	119	O	S	U
RD2	RC Drill Sandvik DR580	119	O	S	U
Roen_E	Roen Aggregate Pit Excavator PC360LC	116	O	S	U
Roen_FEL	Roen Graval Pit Mobile Crushing Plant Loader (CAT 966H)	114	O	S	U
Roen_PS	Roen Graval Pit Mobile Primary Crusher (PowerScreen)	119	O	S	U
Roen_SCNR	Roen Graval Pit Mobile Screener (Atlas Copco HCS3715)	102	O	S	U
T1	Transformer 1	113	O	S, T	U
T2	Transformer 2	113	O	S, T	U
TD01	Track Dozer 01 (Pit - Komatsu D475)	121	O	S, T	U
TD02	Track Dozer 02 (Pit -CAT D10)	121	O	S, T	U
TD03	Track Dozer 03 (Pit -CAT D10)	121	O	S, T	U
TD04	Track Dozer 04 (Pit -CAT D10)	115	O	S	U
TD05	Track Dozer 05 (PAG - Komatsu D375)	115	O	S	U
TD06	Track Dozer 06 (PAG - Komatsu D375)	115	O	S	U
TD07	Track Dozer 07 (PAG - Komatsu D475)	121	O	S, T	U

Table 1: Noise Source Summary

Project: RRP
 Location: Township of Chapple ON



Source ID	Source Description	Sound Power Level	Source Location ^[1]	Sound Characteristics ^[2]	Noise Control Measures ^[3]
		(dBA/dBAI)	(I or O)	(S,Q,I,B,T,C)	(S,A,B,L,E,O,U)
TD08	Track Dozer 08 (PAG - Komatsu D375)	121	O	S, T	U
TD09	Track Dozer 09 (Ore -CAT D9)	115	O	S	U
TD10	Track Dozer 10 (Ore -CAT D8)	115	O	S	U
TD11	Track Dozer 11 (NPAG/OB - Komatsu D475)	121	O	S, T	U
TD12	Track Dozer 12 (NPAG/OB - Komatsu D375)	121	O	S, T	U
TD13	Track Dozer 13 (NPAG/OB -CAT D9)	115	O	S	U
TD14	Track Dozer 14 (NPAG/OB -CAT D9)	115	O	S	U
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	115	O	S	U
TD16	Track Dozer 16 (NPAG/OB -CAT D9)	115	O	S	U
WD	Komatsu Wheel Dozer KM WD600	105	O	S	U
WL1	Komatsu Wheel Loader WA1200	117	O	S	U
WL2	Komatsu Wheel Loader WA900	117	O	S	U
WP01	Water Pump WP01	106	O	S	U
WP02	Water Pump WP02	106	O	S	U
WP03	Water Pump WP03	106	O	S	U
WP04	Water Pump WP04	106	O	S	U
WP05	Water Pump WP05	106	O	S	U
WP06	Water Pump WP06	106	O	S	U
WP07	Water Pump WP07	106	O	S	U
WP08	Water Pump WP08	106	O	S	U
WP09	Water Pump WP09	106	O	S	U
WP10	Water Pump WP10	106	O	S	U
WP11	Water Pump WP11	106	O	S	U
WP12	Water Pump WP12	106	O	S	U
WP13	Water Pump WP13	106	O	S	U
WP14	Water Pump WP14	106	O	S	U
WP15	Water Pump WP15	106	O	S	U
WP16	Water Pump WP16	106	O	S	U
WP17	Water Pump WP17	106	O	S	U
WP18	Water Pump WP18	106	O	S	U
WP19	Water Pump WP19	106	O	S	U
WP20	Pinewood River Water Pump	106	O	S	U
WS	Wet Scrubber	105	O	S	U
MGR_SP	Motor Grader Route Stockpile	111	O	S	U
MGR_NPAG	Motor Grader Route NPAG	111	O	S	U
MGR_OB	Motor Grader Route OB	111	O	S	U
MGR_OPMill	Motor Grader Route Open Pit to Mill	111	O	S	U
MGR_PAG	Motor Grader Route PAG	111	O	S	U
TRE_NPAG	Truck Route-NPAG (Empty Truck)	108	O	S	U
TRE_OB	Truck Route-Overburden (Empty Truck)	108	O	S	U
TRE_OPMill	Truck Route Open Pit to Mill (Empty Truck)	108	O	S	U
TRE_PAG	Truck Route PAG (Empty Truck)	108	O	S	U
TRE_SP	Truck Route Stockpile (Empty Truck)	108	O	S	U
TRL_NPAG	Truck Route-NPAG (Loaded Truck)	119	O	S	U
TRL_OB	Truck Route-Overburden (Loaded Truck)	119	O	S	U
TRL_OPMill	Truck Route Open Pit to Mill (Loaded Truck)	119	O	S	U

Table 1: Noise Source Summary

Project: RRP
Location: Township of Chapple ON



Source ID	Source Description	Sound Power Level	Source Location ^[1]	Sound Characteristics ^[2]	Noise Control Measures ^[3]
		(dBA/dBAI)	(I or O)	(S,Q,I,B,T,C)	(S,A,B,L,E,O,U)
TRL_PAG	Truck Route PAG (Loaded Truck)	119	O	S	U
TRL_SP	Truck Route Stockpile (Loaded Truck)	119	O	S	U
WTR_NPAG	Water Truck Route NPAG	114	O	S	U
WTR_OB	Water Truck Route OB	114	O	S	U
WTR_OPMill	Water Truck Route Open Pit to Mill	114	O	S	U
WTR_PAG	Water Truck Route PAG	114	O	S	U
WTR_SP	Water Truck Route Stockpile	114	O	S	U
LD4_TR	LD4 Aggregate Pit Truck Route	107	O	S	U
OC3_TR	OC3 Aggregate Pit Truck Route	107	O	S	U
EO_TR	EO Aggregate Pit Truck Route	107	O	S	U
Roen_TR	Roen Aggregate Pit Truck Route	107	O	S	U
EG1	Emergency Generator 1 (CAT 2.5 MW)	129	O	S	U
EG2	Emergency Generator 2 (CAT 2.5 MW)	129	O	S	U
FP1	Fire Pump 1	137	O	S	U
FP2	Fire Pump 2	137	O	S	U

- Notes: 1. Source Location: O = Outside of building, including the roof, I = Inside of building
 2. Sound Characteristic, per NPC-104
 S = Steady
 Q = Quasi-Steady Impulsive
 I = Impulsive
 B = Buzzing
 T = Tonal
 C = Cyclic
 3. Noise Control Measures To Be Included
 S = Silencer/Muffler
 A = Acoustic lining, plenum
 B = Barrier
 L = Lagging
 E = acoustic enclosure
 O = other
 U = uncontrolled
 4. Sound power levels include 5 dB tonal penalty for the sources with tonal characteristics.

Table 2: Point of Reception Sound Impact

Project: RRP
Location: Township of Chapple ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR01	POR02	POR03	POR04	POR06
Point of Reception Description House 01 - North	Point of Reception Description House 02 - East	Point of Reception Description House 03 - East	Point of Reception Description House 04 - East	Point of Reception Description House 06 - Southeast
Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z
424437 5415498 391.2	431274 5412538 384.5	431587 5411870 389.5	431496 5411644 389.5	431077 5408660 374.5

Source ID	Source Description	Point of Reception 1			Point of Reception 2			Point of Reception 3			Point of Reception 4			Point of Reception 5		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
AC1	WMP Air Compressor 1	5191	-6	dBA	10121	-7	dBA	10382	-7	dBA	10284	-7	dBA	10245	-7	dBA
AC2	WMP Air Compressor 2	5607	-7	dBA	10858	-8	dBA	11130	-8	dBA	11035	-8	dBA	11000	-8	dBA
AC3	WMP Air Compressor 3	5323	-8	dBA	11091	-8	dBA	11409	-8	dBA	11329	-8	dBA	11482	-9	dBA
AC4	WMP Air Compressor 4	4668	-6	dBA	9945	-7	dBA	10244	-6	dBA	10159	-7	dBA	10291	-8	dBA
BD1	Blast Hole Drill 1 - Sandvik DR461i	5979	13	dBA	6525	13	dBA	6546	13	dBA	6385	14	dBA	5710	14	dBA
BD2	Blast Hole Drill 2 - Sandvik DR461i	5982	13	dBA	6510	13	dBA	6531	13	dBA	6370	14	dBA	5695	14	dBA
BD3	Blast Hole Drill 3 - Sandvik DP1500i	6046	6	dBA	6573	6	dBA	6587	7	dBA	6424	7	dBA	5717	7	dBA
BD4	Blast Hole Drill 4 - Sandvik DP1500i	6049	6	dBA	6560	6	dBA	6574	7	dBA	6411	7	dBA	5703	7	dBA
C	Crusher	5783	14	dBA	5066	14	dBA	5090	14	dBA	4934	11	dBA	4572	9	dBA
DC1	Dust Collector 1	5748	7	dBA	5042	9	dBA	5072	10	dBA	4917	7	dBA	4582	8	dBA
DC2	Dust Collector 2	5474	6	dBA	5098	5	dBA	5167	6	dBA	5022	6	dBA	4819	5	dBA
E1	Komatsu Diesel Excavator PC5500	5977	15	dBA	6556	15	dBA	6578	15	dBA	6417	16	dBA	5742	16	dBA
E2	Komatsu Diesel Excavator PC5500	6003	15	dBA	6438	15	dBA	6454	15	dBA	6291	16	dBA	5610	16	dBA
E3	Komatsu Diesel Excavator PC8000	6019	20	dBA	6487	20	dBA	6503	20	dBA	6340	20	dBA	5649	20	dBA
E4	Komatsu Diesel Excavator PC3000	6036	24	dBA	6524	24	dBA	6538	24	dBA	6375	24	dBA	5674	24	dBA
E5	Komatsu Diesel Excavator PC800LC	6056	10	dBA	6416	10	dBA	6425	10	dBA	6281	8	dBA	5556	11	dBA
E6	Komatsu Diesel Excavator PC360LC	6037	13	dBA	6483	13	dBA	6496	13	dBA	6334	13	dBA	5634	14	dBA
EO_E	East Outcrop Aggregate Pit Excavator PC360LC	6394	15	dBA	5394	15	dBA	5241	16	dBA	5063	16	dBA	4307	16	dBA
EO_FEL	East Outcrop Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	6413	19	dBA	5301	19	dBA	5237	19	dBA	5059	16	dBA	4292	19	dBA
EO_PS	East Outcrop Gravel Pit Mobile Primary Crusher (PowerScreen)	6400	18	dBA	5311	18	dBA	5249	18	dBA	5071	18	dBA	4310	19	dBA
EO_SCNR	East Outcrop Gravel Pit Mobile Screener (Atlas Copco HCS3715)	6392	6	dBA	5327	6	dBA	5266	7	dBA	5089	8	dBA	4329	7	dBA
LD4_E	LD4 Aggregate Pit Excavator PC360LC	5322	9	dBA	8533	8	dBA	8696	9	dBA	8570	9	dBA	8234	8	dBA
LD4_FEL	LD4 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	5283	14	dBA	8459	14	dBA	8622	14	dBA	8497	14	dBA	8170	14	dBA
LD4_PS	LD4 Gravel Pit Mobile Primary Crusher (PowerScreen)	5313	11	dBA	8520	11	dBA	8683	11	dBA	8557	11	dBA	8224	10	dBA
LD4_SCNR	LD4 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	5305	1	dBA	8467	0	dBA	8629	1	dBA	8503	0	dBA	8168	0	dBA
Outcrop3_E	Outcrop 3 Aggregate Pit Excavator PC360LC	6737	17	dBA	3527	18	dBA	3398	19	dBA	3212	23	dBA	2909	19	dBA
Outcrop3_FEL	Outcrop 3 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	6711	21	dBA	3542	22	dBA	3418	22	dBA	3233	25	dBA	2939	22	dBA
Outcrop3_PS	Outcrop 3 Gravel Pit Mobile Primary Crusher (PowerScreen)	6738	22	dBA	3536	23	dBA	3406	23	dBA	3220	26	dBA	2911	21	dBA
Outcrop3_SCNR	Outcrop 3 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	6735	11	dBA	3573	11	dBA	3443	12	dBA	3257	11	dBA	2927	9	dBA
PC1	Pinewood River Pumphouse Generator (CAT 660 KW)	12239	0	dBA	16620	0	dBA	16711	0	dBA	16560	0	dBA	15573	0	dBA
RD1	RC Drill Sandvik DR580	6094	15	dBA	6340	15	dBA	6342	16	dBA	6177	10	dBA	5458	14	dBA
RD2	RC Drill Sandvik DR580	6119	15	dBA	6363	15	dBA	6363	16	dBA	6197	8	dBA	5464	12	dBA
Roen_E	Roen Aggregate Pit Excavator PC360LC	4142	15	dBA	5610	15	dBA	5846	15	dBA	5748	14	dBA	6071	12	dBA
Roen_FEL	Roen Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	4215	19	dBA	5525	18	dBA	5754	18	dBA	5654	18	dBA	5967	16	dBA
Roen_PS	Roen Gravel Pit Mobile Primary Crusher (PowerScreen)	4125	17	dBA	5638	17	dBA	5875	17	dBA	5778	16	dBA	6101	14	dBA
Roen_SCNR	Roen Gravel Pit Mobile Screener (Atlas Copco HCS3715)	4168	6	dBA	5698	5	dBA	5929	5	dBA	5829	5	dBA	6116	3	dBA
T1	Transformer 1	4865	16	dBA	4743	15	dBA	4910	15	dBA	4794	15	dBA	5043	12	dBA
T2	Transformer 2	4876	16	dBA	4747	15	dBA	4911	15	dBA	4795	15	dBA	5037	13	dBA
TD01	Track Dozer 01 (Pit - Komatsu D475)	6042	17	dBA	6388	17	dBA	6398	17	dBA	6235	15	dBA	5538	17	dBA
TD02	Track Dozer 02 (Pit -CAT D10)	5991	16	dBA	6608	16	dBA	6630	16	dBA	6469	18	dBA	5786	17	dBA
TD03	Track Dozer 03 (Pit -CAT D10)	6026	16	dBA	6501	16	dBA	6515	17	dBA	6353	16	dBA	5657	17	dBA
TD04	Track Dozer 04 (Pit -CAT D10)	5976	11	dBA	6376	11	dBA	6393	11	dBA	6332	10	dBA	5567	12	dBA
TD05	Track Dozer 05 (PAG - Komatsu D375)	6698	17	dBA	4053	18	dBA	3930	19	dBA	3742	21	dBA	3177	17	dBA
TD06	Track Dozer 06 (PAG - Komatsu D375)	7037	16	dBA	4417	17	dBA	4239	18	dBA	4038	21	dBA	3102	18	dBA
TD07D	Track Dozer 07 (PAG - Komatsu D475)	6556	23	dBA	4238	23	dBA	4140	24	dBA	3958	26	dBA	3407	22	dBA
TD07N	Track Dozer 07 (PAG - Komatsu D475)	6556	0	dBA	4238	0	dBA	4140	0	dBA	3958	0	dBA	3407	0	dBA
TD08D	Track Dozer 08 (PAG - Komatsu D375)	6356	24	dBA	3916	24	dBA	3856	25	dBA	3684	26	dBA	3416	22	dBA
TD08N	Track Dozer 08 (PAG - Komatsu D375)	6356	0	dBA	3916	0	dBA	3856	0	dBA	3684	0	dBA	3416	0	dBA
TD09	Track Dozer 09 (Ore -CAT D9)	6849	15	dBA	4713	16	dBA	4572	16	dBA	4378	20	dBA	3479	17	dBA
TD10	Track Dozer 10 (Ore -CAT D8)	6710	14	dBA	5060	14	dBA	4948	15	dBA	4760	18	dBA	3867	19	dBA
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	5175	12	dBA	8194	12	dBA	8356	12	dBA	8231	13	dBA	7925	12	dBA
TD11N	Track Dozer 11 (NPAG/OB - Komatsu D475)	5175	0	dBA	8194	0	dBA	8356	0	dBA	8231	0	dBA	7925	0	dBA
TD12D	Track Dozer 12 (NPAG/OB - Komatsu D375)	4771	16	dBA	6476	16	dBA	6634	16	dBA	6511	17	dBA	6389	15	dBA
TD12N	Track Dozer 12 (NPAG/OB - Komatsu D375)	4771	0	dBA	6476	0	dBA	6634	0	dBA	6511	0	dBA	6389	0	dBA
TD13	Track Dozer 13 (NPAG/OB -CAT D9)	5798	7	dBA	7961	7	dBA	8052	7	dBA	7907	9	dBA	7332	8	dBA
TD14	Track Dozer 14 (NPAG/OB -CAT D9)	5905	8	dBA	7666	8	dBA	7734	8	dBA	7583	10	dBA	6946	9	dBA
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	5043	10	dBA	6595	10	dBA	6725	10	dBA	6592	11	dBA	6340	9	dBA
TD16	Track Dozer 16 (NPAG/OB -CAT D9)	5145	8	dBA	7794	7	dBA	7944	8	dBA	7816	8	dBA	7499	7	dBA
WD	Komatsu Wheel Dozer KM WD600	6042	4	dBA	6444	4	dBA	6455	4	dBA	6292	4	dBA	5592	4	dBA
WL1	Komatsu Wheel Loader WA1200	6011	15	dBA	6606	15	dBA	6625	15	dBA	6464	17	dBA	5771	16	dBA
WL2	Komatsu Wheel Loader WA900	6014	15	dBA	6576	15	dBA	6594	15	dBA	6432	16	dBA	5740	16	dBA
WP01	Water Pump WP01	5932	1	dBA	6428	1	dBA	6452	1	dBA	6292	2	dBA	5645	1	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
 Location: Township of Chappelle ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR01	POR02	POR03	POR04	POR06
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description
House 01 - North	House 02 - East	House 03 - East	House 04 - East	House 06 -Southeast
Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates
X Y Z	X Y Z	X Y Z	X Y Z	X Y Z
424437 5415498 391.2	431274 5412538 384.5	431587 5411870 389.5	431496 5411644 389.5	431077 5408660 374.5

Source ID	Source Description	Point of Reception 1			Point of Reception 2			Point of Reception 3			Point of Reception 4			Point of Reception 5		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
WP02	Water Pump WP02	5980	1	dBA	6304	-1	dBA	6319	0	dBA	6157	-8	dBA	5494	-1	dBA
WP03	Water Pump WP03	6042	1	dBA	6290	1	dBA	6298	-1	dBA	6134	-4	dBA	5442	0	dBA
WP04	Water Pump WP04	6118	1	dBA	6323	-2	dBA	6322	-3	dBA	6156	-13	dBA	5426	-11	dBA
WP05	Water Pump WP05	6118	1	dBA	6433	1	dBA	6434	1	dBA	6269	-4	dBA	5533	-2	dBA
WP06	Water Pump WP06	6084	1	dBA	6534	1	dBA	6543	1	dBA	6379	1	dBA	5655	1	dBA
WP07	Water Pump WP07	6060	0	dBA	6641	0	dBA	6656	1	dBA	6494	2	dBA	5777	1	dBA
WP08	Water Pump WP08	5983	0	dBA	6650	0	dBA	6674	1	dBA	6514	2	dBA	5833	1	dBA
WP09	Water Pump WP09	6379	0	dBA	6734	0	dBA	6714	1	dBA	6543	3	dBA	5675	2	dBA
WP10	Water Pump WP10	6522	1	dBA	6369	1	dBA	6320	1	dBA	6142	3	dBA	5211	3	dBA
WP11	Water Pump WP11	6541	2	dBA	5958	2	dBA	5893	2	dBA	5713	4	dBA	4795	3	dBA
WP12	Water Pump WP12	6427	-2	dBA	7994	-2	dBA	8022	-2	dBA	7860	0	dBA	7024	-1	dBA
WP13	Water Pump WP13	6190	-1	dBA	7541	-1	dBA	7574	-1	dBA	7414	0	dBA	6649	0	dBA
WP14	Water Pump WP14	5365	-3	dBA	8505	-3	dBA	8662	-3	dBA	8535	-2	dBA	8179	-3	dBA
WP15	Water Pump WP15	5354	-3	dBA	8467	-3	dBA	8623	-3	dBA	8496	-2	dBA	8141	-3	dBA
WP16	Water Pump WP16	5385	1	dBA	6353	1	dBA	6439	1	dBA	6296	2	dBA	5910	1	dBA
WP17	Water Pump WP17	4530	-1	dBA	7336	-1	dBA	7534	-1	dBA	7421	-1	dBA	7348	-2	dBA
WP18	Water Pump WP18	6548	-5	dBA	9848	-5	dBA	9963	-5	dBA	9822	-4	dBA	9190	-4	dBA
WP19	Water Pump WP19	5462	2	dBA	5276	-15	dBA	5346	-16	dBA	5201	-16	dBA	4961	-18	dBA
WP20	Pinewood River Water Pump	12235	0	dBA	16615	0	dBA	16705	0	dBA	16554	0	dBA	15567	0	dBA
WS	Wet Scrubber	5023	-14	dBA	4948	-11	dBA	5084	-12	dBA	4959	-15	dBA	5046	-11	dBA
MGR_SP	Motor Grader Route Stockpile	N/A	4	dBA	N/A	4	dBA	N/A	5	dBA	N/A	4	dBA	N/A	3	dBA
MGR_NPAG	Motor Grader Route NPAG	N/A	2	dBA	N/A	2	dBA	N/A	2	dBA	N/A	3	dBA	N/A	2	dBA
MGR_OB	Motor Grader Route OB	N/A	-1	dBA	N/A	-2	dBA	N/A	-2	dBA	N/A	-1	dBA	N/A	-2	dBA
MGR_OPMill	Motor Grader Route Open Pit to Mill	N/A	3	dBA	N/A	3	dBA	N/A	3	dBA	N/A	4	dBA	N/A	3	dBA
MGR_PAG	Motor Grader Route PAG	N/A	2	dBA	N/A	3	dBA	N/A	4	dBA	N/A	5	dBA	N/A	2	dBA
TRE_NPAG	Truck Route-NPAG (Empty Truck)	N/A	7	dBA	N/A	7	dBA	N/A	7	dBA	N/A	8	dBA	N/A	7	dBA
TRE_OB	Truck Route-Overburden (Empty Truck)	N/A	7	dBA	N/A	7	dBA	N/A	7	dBA	N/A	8	dBA	N/A	7	dBA
TRE_OPMill	Truck Route Open Pit to Mill (Empty Truck)	N/A	3	dBA	N/A	3	dBA	N/A	4	dBA	N/A	4	dBA	N/A	3	dBA
TRE_PAG	Truck Route PAG (Empty Truck)	N/A	11	dBA	N/A	11	dBA	N/A	12	dBA	N/A	12	dBA	N/A	10	dBA
TRE_SP	Truck Route Stockpile (Empty Truck)	N/A	6	dBA	N/A	6	dBA	N/A	6	dBA	N/A	6	dBA	N/A	5	dBA
TRL_NPAG	Truck Route-NPAG (Loaded Truck)	N/A	22	dBA	N/A	22	dBA	N/A	22	dBA	N/A	23	dBA	N/A	22	dBA
TRL_OB	Truck Route-Overburden (Loaded Truck)	N/A	22	dBA	N/A	22	dBA	N/A	22	dBA	N/A	23	dBA	N/A	22	dBA
TRL_OPMill	Truck Route Open Pit to Mill (Loaded Truck)	N/A	18	dBA	N/A	18	dBA	N/A	18	dBA	N/A	19	dBA	N/A	18	dBA
TRL_PAG	Truck Route PAG (Loaded Truck)	N/A	25	dBA	N/A	25	dBA	N/A	25	dBA	N/A	26	dBA	N/A	25	dBA
TRL_SP	Truck Route Stockpile (Loaded Truck)	N/A	20	dBA	N/A	20	dBA	N/A	20	dBA	N/A	20	dBA	N/A	19	dBA
WTR_NPAG	Water Truck Route NPAG	N/A	-1	dBA	N/A	-1	dBA	N/A	-1	dBA	N/A	0	dBA	N/A	-1	dBA
WTR_OB	Water Truck Route OB	N/A	-4	dBA	N/A	-5	dBA	N/A	-4	dBA	N/A	-4	dBA	N/A	-5	dBA
WTR_OPMill	Water Truck Route Open Pit to Mill	N/A	0	dBA	N/A	0	dBA	N/A	0	dBA	N/A	1	dBA	N/A	0	dBA
WTR_PAG	Water Truck Route PAG	N/A	0	dBA	N/A	1	dBA	N/A	2	dBA	N/A	3	dBA	N/A	-1	dBA
WTR_SP	Water Truck Route Stockpile	N/A	2	dBA	N/A	2	dBA	N/A	2	dBA	N/A	2	dBA	N/A	0	dBA
LD4_TR	LD4 Aggregate Pit Truck Route	N/A	7	dBA	N/A	6	dBA	N/A	6	dBA	N/A	6	dBA	N/A	5	dBA
OC3_TR	OC3 Aggregate Pit Truck Route	N/A	2	dBA	N/A	3	dBA	N/A	3	dBA	N/A	4	dBA	N/A	0	dBA
EO_TR	EO Aggregate Pit Truck Route	N/A	9	dBA	N/A	9	dBA	N/A	10	dBA	N/A	11	dBA	N/A	10	dBA
Roen_TR	Roen Aggregate Pit Truck Route	N/A	7	dBA	N/A	7	dBA	N/A	7	dBA	N/A	7	dBA	N/A	6	dBA
EG1	Emergency Generator 1 (CAT 2.5 MW)	4845	35	dBA	4803	34	dBA	4971	34	dBA	4854	34	dBA	5090	32	dBA
EG2	Emergency Generator 2 (CAT 2.5 MW)	3322	33	dBA	5711	32	dBA	6042	32	dBA	5975	31	dBA	6645	29	dBA
FP1	Fire Pump 1	4871	42	dBA	4907	44	dBA	5066	44	dBA	4948	40	dBA	5130	37	dBA
FP2	Fire Pump 2	4903	31	dBA	4917	37	dBA	5072	37	dBA	4951	35	dBA	5113	35	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
Location: Township of Chapple ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR07	POR08	POR09	POR10	POR11
Point of Reception Description House 07 - South	Point of Reception Description House 08 - South	Point of Reception Description House 9 - South	Point of Reception Description House 10 - South	Point of Reception Description House 11 - South
Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z
431034 5406873 378.5	430117 5406700 367.8	429796 5406515 367.9	429116 5406626 361.5	428590 5406620 369.5

Source ID	Source Description	Point of Reception 6			Point of Reception 7			Point of Reception 8			Point of Reception 9			Point of Reception 10		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
AC1	WMP Air Compressor 1	10826	-6	dBA	10082	-6	dBA	9890	-5	dBA	9248	-4	dBA	8805	-3	dBA
AC2	WMP Air Compressor 2	11559	-7	dBA	10803	-7	dBA	10604	-6	dBA	9955	-5	dBA	9504	-5	dBA
AC3	WMP Air Compressor 3	12128	-8	dBA	11399	-8	dBA	11215	-7	dBA	10578	-6	dBA	10141	-6	dBA
AC4	WMP Air Compressor 4	10964	-7	dBA	10251	-6	dBA	10078	-5	dBA	9451	-5	dBA	9026	-4	dBA
BD1	Blast Hole Drill 1- Sandvik DR461i	6221	15	dBA	5502	16	dBA	5338	17	dBA	4729	18	dBA	4337	16	dBA
BD2	Blast Hole Drill 2- Sandvik DR461i	6207	15	dBA	5488	16	dBA	5324	17	dBA	4716	18	dBA	4325	15	dBA
BD3	Blast Hole Drill 3 - Sandvik DP1500i	6206	9	dBA	5480	8	dBA	5311	8	dBA	4698	6	dBA	4301	3	dBA
BD4	Blast Hole Drill 4 - Sandvik DP1500i	6193	8	dBA	5468	8	dBA	5299	8	dBA	4687	6	dBA	4290	3	dBA
C	Crusher	5410	10	dBA	4846	10	dBA	4773	12	dBA	4280	13	dBA	4022	15	dBA
DC1	Dust Collector 1	5432	6	dBA	4873	6	dBA	4802	8	dBA	4313	9	dBA	4057	11	dBA
DC2	Dust Collector 2	5703	5	dBA	5151	6	dBA	5081	7	dBA	4591	8	dBA	4332	10	dBA
E1	Komatsu Diesel Excavator PC5500	6249	17	dBA	5528	17	dBA	5362	19	dBA	4752	18	dBA	4358	16	dBA
E2	Komatsu Diesel Excavator PC5500	6128	17	dBA	5413	17	dBA	5252	19	dBA	4646	18	dBA	4259	15	dBA
E3	Komatsu Diesel Excavator PC8000	6157	22	dBA	5437	22	dBA	5273	23	dBA	4665	21	dBA	4274	17	dBA
E4	Komatsu Diesel Excavator PC3000	6173	25	dBA	5450	26	dBA	5284	25	dBA	4673	25	dBA	4280	22	dBA
E5	Komatsu Diesel Excavator PC800LC	6065	12	dBA	5349	12	dBA	5187	11	dBA	4581	9	dBA	4194	7	dBA
E6	Komatsu Diesel Excavator PC360LC	6138	15	dBA	5418	15	dBA	5253	15	dBA	4644	12	dBA	4253	9	dBA
EO_E	East Outcrop Aggregate Pit Excavator PC360LC	4969	18	dBA	4343	18	dBA	4241	20	dBA	3714	22	dBA	3427	20	dBA
EO_FEL	East Outcrop Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	4950	19	dBA	4324	20	dBA	4221	20	dBA	3695	22	dBA	3407	20	dBA
EO_PS	East Outcrop Gravel Pit Mobile Primary Crusher (PowerScreen)	4968	20	dBA	4341	21	dBA	4238	22	dBA	3711	24	dBA	3422	21	dBA
EO_SCNR	East Outcrop Gravel Pit Mobile Screener (Atlas Copco HCS3715)	4986	8	dBA	4357	9	dBA	4253	10	dBA	3724	11	dBA	3433	10	dBA
LD4_E	LD4 Aggregate Pit Excavator PC360LC	8741	10	dBA	7987	10	dBA	7794	11	dBA	7151	12	dBA	6712	14	dBA
LD4_FEL	LD4 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	8685	15	dBA	7935	15	dBA	7743	16	dBA	7103	17	dBA	6665	17	dBA
LD4_PS	LD4 Gravel Pit Mobile Primary Crusher (PowerScreen)	8733	12	dBA	7980	12	dBA	7786	14	dBA	7145	15	dBA	6705	16	dBA
LD4_SCNR	LD4 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	8679	1	dBA	7927	2	dBA	7734	3	dBA	7093	4	dBA	6655	5	dBA
Outcrop3_E	Outcrop 3 Aggregate Pit Excavator PC360LC	4124	20	dBA	3822	20	dBA	3884	21	dBA	3624	21	dBA	3596	22	dBA
Outcrop3_FEL	Outcrop 3 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	4149	22	dBA	3843	22	dBA	3903	23	dBA	3639	23	dBA	3606	24	dBA
Outcrop3_PS	Outcrop 3 Gravel Pit Mobile Primary Crusher (PowerScreen)	4122	22	dBA	3818	22	dBA	3880	23	dBA	3618	23	dBA	3589	24	dBA
Outcrop3_SC	Outcrop3 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	4124	10	dBA	3812	10	dBA	3870	11	dBA	3603	11	dBA	3569	11	dBA
PG1	Pinewood River Pumphouse Generator (CAT 660 kW)	15447	-5	dBA	14533	-5	dBA	14218	-4	dBA	13535	-4	dBA	13009	-3	dBA
RD1	RC Drill Sandvik DR690	5971	13	dBA	5257	13	dBA	5098	12	dBA	4495	10	dBA	4112	9	dBA
RD2	RC Drill Sandvik DR580	5968	11	dBA	5252	10	dBA	5091	9	dBA	4486	8	dBA	4101	7	dBA
Roen_E	Roen Aggregate Pit Excavator PC360LC	7071	13	dBA	6542	13	dBA	6476	14	dBA	5981	15	dBA	5707	16	dBA
Roen_FEL	Roen Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	6970	17	dBA	6446	17	dBA	6382	18	dBA	5892	18	dBA	5621	19	dBA
Roen_PS	Roen Gravel Pit Mobile Primary Crusher (PowerScreen)	7098	15	dBA	6568	15	dBA	6501	16	dBA	6005	17	dBA	5729	18	dBA
Roen_SCNR	Roen Gravel Pit Mobile Screener (Atlas Copco HCS3715)	7095	4	dBA	6556	4	dBA	6485	5	dBA	5983	6	dBA	5701	6	dBA
T1	Transformer 1	6110	14	dBA	5639	14	dBA	5606	14	dBA	5165	15	dBA	4949	16	dBA
T2	Transformer 2	6102	14	dBA	5630	14	dBA	5596	14	dBA	5155	15	dBA	4937	16	dBA
TD01	Track Dozer 01 (Pit - Komatsu D475)	6055	18	dBA	5341	19	dBA	5181	18	dBA	4577	16	dBA	4192	13	dBA
TD02	Track Dozer 02 (Pit -CAT D10)	6283	18	dBA	5557	19	dBA	5389	20	dBA	4776	19	dBA	4378	16	dBA
TD03	Track Dozer 03 (Pit -CAT D10)	6161	18	dBA	5441	19	dBA	5276	19	dBA	4666	15	dBA	4275	13	dBA
TD04	Track Dozer 04 (Pit -CAT D10)	6100	13	dBA	5391	13	dBA	5233	15	dBA	4632	14	dBA	4250	12	dBA
TD05	Track Dozer 05 (PAG - Komatsu D375)	4195	19	dBA	3777	18	dBA	3789	20	dBA	3442	20	dBA	3341	22	dBA
TD06	Track Dozer 06 (PAG - Komatsu D375)	3936	20	dBA	3443	20	dBA	3424	22	dBA	3035	22	dBA	2904	24	dBA
TD07D	Track Dozer 07 (PAG - Komatsu D475)	4373	24	dBA	3918	24	dBA	3909	25	dBA	3527	26	dBA	3391	28	dBA
TD07N	Track Dozer 07 (PAG - Komatsu D475)	4373	0	dBA	3918	0	dBA	3909	0	dBA	3527	0	dBA	3391	0	dBA
TD08D	Track Dozer 08 (PAG - Komatsu D375)	4518	23	dBA	4126	23	dBA	4145	24	dBA	3804	25	dBA	3700	26	dBA
TD08N	Track Dozer 08 (PAG - Komatsu D375)	4518	0	dBA	4126	0	dBA	4145	0	dBA	3804	0	dBA	3700	0	dBA
TD09	Track Dozer 09 (Ore -CAT D9)	4232	19	dBA	3682	19	dBA	3629	21	dBA	3182	22	dBA	2990	24	dBA
TD10	Track Dozer 10 (Ore -CAT D8)	4533	18	dBA	3928	18	dBA	3842	20	dBA	3342	25	dBA	3091	24	dBA
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	8467	13	dBA	7728	14	dBA	7543	15	dBA	6909	16	dBA	6480	18	dBA
TD11N	Track Dozer 11 (NPAG/OB - Komatsu D475)	8467	0	dBA	7728	0	dBA	7543	0	dBA	6909	0	dBA	6480	0	dBA
TD12D	Track Dozer 12 (NPAG/OB - Komatsu D375)	7143	16	dBA	6501	17	dBA	6376	18	dBA	5807	19	dBA	5455	20	dBA
TD12N	Track Dozer 12 (NPAG/OB - Komatsu D375)	7143	0	dBA	6501	0	dBA	6376	0	dBA	5807	0	dBA	5455	0	dBA
TD13	Track Dozer 13 (NPAG/OB -CAT D9)	7757	9	dBA	6986	10	dBA	6785	12	dBA	6137	13	dBA	5693	14	dBA
TD14	Track Dozer 14 (NPAG/OB -CAT D9)	7363	10	dBA	6594	11	dBA	6395	13	dBA	5750	13	dBA	5309	15	dBA
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	7029	11	dBA	6361	11	dBA	6223	13	dBA	5639	13	dBA	5272	15	dBA
TD16	Track Dozer 16 (NPAG/OB -CAT D9)	8063	9	dBA	7335	9	dBA	7158	11	dBA	6532	12	dBA	6113	13	dBA
WD	Komatsu Wheel Dozer KM WD600	6101	5	dBA	5383	6	dBA	5221	6	dBA	4614	5	dBA	4225	2	dBA
WL1	Komatsu Wheel Loader WA1200	6264	17	dBA	5537	17	dBA	5368	18	dBA	4754	18	dBA	4356	15	dBA
WL2	Komatsu Wheel Loader WA900	6236	17	dBA	5511	17	dBA	5343	18	dBA	4731	17	dBA	4335	15	dBA
WPO1	Water Pump WPO1	6180	3	dBA	5470	3	dBA	5311	5	dBA	4708	5	dBA	4324	4	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
 Location: Township of Chapple ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR07	POR08	POR09	POR10	POR11
Point of Reception Description House 07 - South	Point of Reception Description House 08 - South	Point of Reception Description House 9 - South	Point of Reception Description House 10 - South	Point of Reception Description House 11 - South
Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z
431034 5406873 378.5	430117 5406700 367.8	429796 5406515 367.9	429116 5406626 361.5	428590 5406620 369.5

Source ID	Source Description	Point of Reception 6			Point of Reception 7			Point of Reception 8			Point of Reception 9			Point of Reception 10		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
WP02	Water Pump WP02	6038	3	dBA	5334	3	dBA	5180	4	dBA	4582	4	dBA	4205	1	dBA
WP03	Water Pump WP03	5975	1	dBA	5268	1	dBA	5113	1	dBA	4514	-1	dBA	4137	-3	dBA
WP04	Water Pump WP04	5936	-10	dBA	5223	-10	dBA	5063	-10	dBA	4461	-10	dBA	4079	-10	dBA
WP05	Water Pump WP05	6027	-4	dBA	5305	-5	dBA	5141	-6	dBA	4532	-7	dBA	4142	-8	dBA
WP06	Water Pump WP06	6142	-1	dBA	5415	-3	dBA	5247	-5	dBA	4634	-6	dBA	4239	-8	dBA
WP07	Water Pump WP07	6254	1	dBA	5523	-1	dBA	5351	-3	dBA	4734	-6	dBA	4332	-7	dBA
WP08	Water Pump WP08	6326	2	dBA	5599	3	dBA	5429	4	dBA	4814	4	dBA	4414	1	dBA
WP09	Water Pump WP09	6069	3	dBA	5313	4	dBA	5126	5	dBA	4496	7	dBA	4079	8	dBA
WP10	Water Pump WP10	5623	4	dBA	4882	5	dBA	4708	7	dBA	4092	8	dBA	3694	10	dBA
WP11	Water Pump WP11	5275	5	dBA	4568	6	dBA	4416	7	dBA	3826	9	dBA	3463	11	dBA
WP12	Water Pump WP12	7311	1	dBA	6504	1	dBA	6280	3	dBA	5616	4	dBA	5151	5	dBA
WP13	Water Pump WP13	7011	1	dBA	6230	2	dBA	6024	3	dBA	5374	4	dBA	4928	6	dBA
WP14	Water Pump WP14	8678	-2	dBA	7922	-2	dBA	7727	0	dBA	7084	0	dBA	6644	2	dBA
WP15	Water Pump WP15	8643	-2	dBA	7888	-2	dBA	7694	0	dBA	7052	1	dBA	6612	2	dBA
WP16	Water Pump WP16	6567	2	dBA	5895	2	dBA	5756	3	dBA	5174	4	dBA	4811	6	dBA
WP17	Water Pump WP17	8055	-1	dBA	7380	-1	dBA	7234	0	dBA	6638	1	dBA	6255	2	dBA
WP18	Water Pump WP18	9471	-3	dBA	8646	-3	dBA	8405	-2	dBA	7730	-1	dBA	7245	0	dBA
WP19	Water Pump WP19	5807	-16	dBA	5234	-16	dBA	5154	-15	dBA	4648	-14	dBA	4372	-13	dBA
WP20	Pinewood River Water Pump	15441	-10	dBA	14527	-9	dBA	14212	-9	dBA	13528	-8	dBA	13002	-8	dBA
WS	Wet Scrubber	6039	-15	dBA	5532	-10	dBA	5482	-13	dBA	5017	-12	dBA	4778	-12	dBA
MGR_SP	Motor Grader Route Stockpile	N/A	4	dBA	N/A	4	dBA	N/A	6	dBA	N/A	7	dBA	N/A	9	dBA
MGR_NPAG	Motor Grader Route NPAG	N/A	4	dBA	N/A	4	dBA	N/A	5	dBA	N/A	7	dBA	N/A	7	dBA
MGR_OB	Motor Grader Route OB	N/A	-1	dBA	N/A	0	dBA	N/A	1	dBA	N/A	2	dBA	N/A	3	dBA
MGR_OPMill	Motor Grader Route Open Pit to Mill	N/A	4	dBA	N/A	4	dBA	N/A	6	dBA	N/A	7	dBA	N/A	8	dBA
MGR_PAG	Motor Grader Route PAG	N/A	3	dBA	N/A	3	dBA	N/A	5	dBA	N/A	6	dBA	N/A	7	dBA
TRE_NPAG	Truck Route-NPAG (Empty Truck)	N/A	9	dBA	N/A	9	dBA	N/A	10	dBA	N/A	12	dBA	N/A	11	dBA
TRE_OB	Truck Route-Overburden (Empty Truck)	N/A	8	dBA	N/A	9	dBA	N/A	10	dBA	N/A	11	dBA	N/A	11	dBA
TRE_OPMill	Truck Route Open Pit to Mill (Empty Truck)	N/A	5	dBA	N/A	5	dBA	N/A	6	dBA	N/A	7	dBA	N/A	7	dBA
TRE_PAG	Truck Route PAG (Empty Truck)	N/A	11	dBA	N/A	12	dBA	N/A	13	dBA	N/A	14	dBA	N/A	15	dBA
TRE_SP	Truck Route Stockpile (Empty Truck)	N/A	6	dBA	N/A	6	dBA	N/A	7	dBA	N/A	8	dBA	N/A	9	dBA
TRL_NPAG	Truck Route-NPAG (Loaded Truck)	N/A	23	dBA	N/A	24	dBA	N/A	24	dBA	N/A	26	dBA	N/A	26	dBA
TRL_OB	Truck Route-Overburden (Loaded Truck)	N/A	23	dBA	N/A	23	dBA	N/A	24	dBA	N/A	25	dBA	N/A	25	dBA
TRL_OPMill	Truck Route Open Pit to Mill (Loaded Truck)	N/A	19	dBA	N/A	20	dBA	N/A	21	dBA	N/A	21	dBA	N/A	22	dBA
TRL_PAG	Truck Route PAG (Loaded Truck)	N/A	26	dBA	N/A	26	dBA	N/A	27	dBA	N/A	28	dBA	N/A	29	dBA
TRL_SP	Truck Route Stockpile (Loaded Truck)	N/A	21	dBA	N/A	21	dBA	N/A	22	dBA	N/A	23	dBA	N/A	23	dBA
WTR_NPAG	Water Truck Route NPAG	N/A	1	dBA	N/A	1	dBA	N/A	3	dBA	N/A	5	dBA	N/A	5	dBA
WTR_OB	Water Truck Route OB	N/A	-4	dBA	N/A	-3	dBA	N/A	-2	dBA	N/A	-1	dBA	N/A	1	dBA
WTR_OPMill	Water Truck Route Open Pit to Mill	N/A	2	dBA	N/A	2	dBA	N/A	3	dBA	N/A	5	dBA	N/A	6	dBA
WTR_PAG	Water Truck Route PAG	N/A	1	dBA	N/A	1	dBA	N/A	3	dBA	N/A	4	dBA	N/A	6	dBA
WTR_SP	Water Truck Route Stockpile	N/A	2	dBA	N/A	2	dBA	N/A	4	dBA	N/A	6	dBA	N/A	8	dBA
LD4_TR	LD4 Aggregate Pit Truck Route	N/A	6	dBA	N/A	6	dBA	N/A	7	dBA	N/A	8	dBA	N/A	9	dBA
OC3_TR	OC3 Aggregate Pit Truck Route	N/A	1	dBA	N/A	1	dBA	N/A	2	dBA	N/A	3	dBA	N/A	4	dBA
EO_TR	EO Aggregate Pit Truck Route	N/A	11	dBA	N/A	11	dBA	N/A	13	dBA	N/A	15	dBA	N/A	15	dBA
Roen_TR	Roan Aggregate Pit Truck Route	N/A	7	dBA	N/A	7	dBA	N/A	8	dBA	N/A	9	dBA	N/A	10	dBA
EG1	Emergency Generator 1 (CAT 2.5 MW)	6147	33	dBA	5668	33	dBA	5632	34	dBA	5185	34	dBA	4963	35	dBA
EG2	Emergency Generator 2 (CAT 2.5 MW)	7756	30	dBA	7273	30	dBA	7226	31	dBA	6755	31	dBA	6499	32	dBA
FP1	Fire Pump 1	6158	36	dBA	5664	36	dBA	5621	38	dBA	5163	39	dBA	4931	40	dBA
FP2	Fire Pump 2	6134	36	dBA	5637	36	dBA	5592	38	dBA	5133	39	dBA	4899	39	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
Location: Township of Chapple ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR12	POR14	POR15	POR16	POR17
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description
House 12 - South	House 14 - South	House 15 - West	House 16 - West	House 17 - Nothwest
Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates
X Y Z	X Y Z	X Y Z	X Y Z	X Y Z
428175 5406947 361.5	427450 5406952 362.9	419623 5410178 358.0	419645 5410314 359.5	419827 5413577 372.5

Source ID	Source Description	Point of Reception 11			Point of Reception 12			Point of Reception 13			Point of Reception 14			Point of Reception 15		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
AC1	WMP Air Compressor 1	8279	-2	dBA	7677	15	dBA	2024	14	dBA	1925	11	dBA	2556	0	dBA
AC2	WMP Air Compressor 2	8980	-4	dBA	8363	15	dBA	1604	14	dBA	1477	13	dBA	2129	1	dBA
AC3	WMP Air Compressor 3	9614	-5	dBA	9018	11	dBA	2191	10	dBA	2054	11	dBA	1331	-1	dBA
AC4	WMP Air Compressor 4	8498	-3	dBA	7924	12	dBA	2508	11	dBA	2395	12	dBA	2186	-1	dBA
BD1	Blast Hole Drill 1- Sandvik DR461i	3811	22	dBA	3327	7	dBA	5852	15	dBA	5845	12	dBA	6881	5	dBA
BD2	Blast Hole Drill 2- Sandvik DR461i	3799	22	dBA	3317	8	dBA	5868	15	dBA	5861	12	dBA	6895	5	dBA
BD3	Blast Hole Drill 3 - Sandvik DP1500i	3774	11	dBA	3281	-1	dBA	5842	8	dBA	5837	5	dBA	6909	-1	dBA
BD4	Blast Hole Drill 4 - Sandvik DP1500i	3764	11	dBA	3272	0	dBA	5856	8	dBA	5851	5	dBA	6920	-1	dBA
C	Crusher	3550	16	dBA	3326	9	dBA	7152	9	dBA	7131	8	dBA	7721	3	dBA
DC1	Dust Collector 1	3586	12	dBA	3366	4	dBA	7158	4	dBA	7136	3	dBA	7708	-4	dBA
DC2	Dust Collector 2	3858	11	dBA	3620	1	dBA	6995	1	dBA	6969	4	dBA	7481	-4	dBA
E1	Komatsu Diesel Excavator PC5500	3832	23	dBA	3344	9	dBA	5819	16	dBA	5813	14	dBA	6857	9	dBA
E2	Komatsu Diesel Excavator PC5500	3734	23	dBA	3261	15	dBA	5953	16	dBA	5946	14	dBA	6968	9	dBA
E3	Komatsu Diesel Excavator PC8000	3749	27	dBA	3268	18	dBA	5912	21	dBA	5905	19	dBA	6948	14	dBA
E4	Komatsu Diesel Excavator PC3000	3754	29	dBA	3268	21	dBA	5885	25	dBA	5879	23	dBA	6935	18	dBA
E5	Komatsu Diesel Excavator PC800LC	3669	13	dBA	3197	10	dBA	6005	11	dBA	5999	9	dBA	7032	4	dBA
E6	Komatsu Diesel Excavator PC360LC	3728	19	dBA	3247	11	dBA	5926	14	dBA	5920	12	dBA	6966	7	dBA
EO_E	East Outcrop Aggregate Pit Excavator PC360LC	2942	24	dBA	2696	11	dBA	7272	11	dBA	7262	12	dBA	8096	7	dBA
EO_FEL	East Outcrop Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	2923	23	dBA	2678	16	dBA	7285	16	dBA	7275	18	dBA	8114	15	dBA
EO_PS	East Outcrop Gravel Pit Mobile Primary Crusher (PowerScreen)	2937	26	dBA	2688	13	dBA	7268	13	dBA	7258	15	dBA	8096	10	dBA
EO_SCNR	East Outcrop Gravel Pit Mobile Screener (Atlas Copco HCS3715)	2947	13	dBA	2694	3	dBA	7248	3	dBA	7238	2	dBA	8078	-2	dBA
LD4_E	LD4 Aggregate Pit Excavator PC360LC	6185	15	dBA	5593	21	dBA	3404	21	dBA	3377	18	dBA	4529	13	dBA
LD4_FEL	LD4 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	6138	19	dBA	5550	23	dBA	3476	24	dBA	3448	21	dBA	4563	19	dBA
LD4_PS	LD4 Gravel Pit Mobile Primary Crusher (PowerScreen)	6179	18	dBA	5587	24	dBA	3416	24	dBA	3389	20	dBA	4532	16	dBA
LD4_SCNR	LD4 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	6128	6	dBA	5538	11	dBA	3472	11	dBA	3445	8	dBA	4577	2	dBA
Outcrop3_E	Outcrop 3 Aggregate Pit Excavator PC360LC	3298	22	dBA	3466	8	dBA	8996	8	dBA	8974	7	dBA	9412	4	dBA
Outcrop3_FEL	Outcrop 3 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	3305	23	dBA	3467	13	dBA	8967	13	dBA	8946	13	dBA	9382	14	dBA
Outcrop3_PS	Outcrop 3 Gravel Pit Mobile Primary Crusher (PowerScreen)	3291	24	dBA	3458	10	dBA	8990	10	dBA	8968	9	dBA	9409	8	dBA
Outcrop3_SCNR	Outcrop 3 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	3267	11	dBA	3429	0	dBA	8959	0	dBA	8938	-1	dBA	9387	-4	dBA
PG1	Pinewood River Pumphouse Generator (CAT 660 kW)	12587	-2	dBA	11862	10	dBA	5109	11	dBA	5211	4	dBA	7788	28	dBA
RD1	RC Drill Sandvik DR580	3588	15	dBA	3127	16	dBA	6102	16	dBA	6096	14	dBA	7122	10	dBA
RD2	RC Drill Sandvik DR580	3576	13	dBA	3111	16	dBA	6094	16	dBA	6089	14	dBA	7129	10	dBA
Roen_E	Roen Aggregate Pit Excavator PC360LC	5220	16	dBA	4921	13	dBA	6281	16	dBA	6231	16	dBA	6252	7	dBA
Roen_FEL	Roen Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	5137	20	dBA	4847	17	dBA	6364	21	dBA	6315	21	dBA	6356	16	dBA
Roen_PS	Roen Gravel Pit Mobile Primary Crusher (PowerScreen)	5241	19	dBA	4939	16	dBA	6254	19	dBA	6204	19	dBA	6222	11	dBA
Roen_SCNR	Roen Gravel Pit Mobile Screener (Atlas Copco HCS3715)	5211	7	dBA	4899	5	dBA	6191	6	dBA	6142	6	dBA	6194	-1	dBA
T1	Transformer 1	4497	17	dBA	4313	10	dBA	7173	10	dBA	7133	13	dBA	7293	3	dBA
T2	Transformer 2	4485	17	dBA	4301	10	dBA	7171	10	dBA	7132	13	dBA	7297	3	dBA
TD01	Track Dozer 01 (Pit - Komatsu D475)	3668	22	dBA	3200	17	dBA	6024	18	dBA	6018	15	dBA	7039	9	dBA
TD02	Track Dozer 02 (Pit -CAT D10)	3852	24	dBA	3356	4	dBA	5774	16	dBA	5768	15	dBA	6831	9	dBA
TD03	Track Dozer 03 (Pit -CAT D10)	3749	23	dBA	3266	13	dBA	5903	18	dBA	5897	15	dBA	6943	9	dBA
TD04	Track Dozer 04 (Pit -CAT D10)	3726	20	dBA	3263	11	dBA	5999	12	dBA	5992	9	dBA	6988	4	dBA
TD05	Track Dozer 05 (PAG - Komatsu D375)	2988	25	dBA	3068	6	dBA	8547	6	dBA	8530	7	dBA	9100	2	dBA
TD06	Track Dozer 06 (PAG - Komatsu D375)	2535	28	dBA	2607	6	dBA	8492	6	dBA	8482	7	dBA	9219	2	dBA
TD07D	Track Dozer 07 (PAG - Komatsu D475)	3008	28	dBA	3029	12	dBA	8302	12	dBA	8285	14	dBA	8872	7	dBA
TD07N	Track Dozer 07 (PAG - Komatsu D475)	3008	0	dBA	3029	0	dBA	8302	0	dBA	8285	0	dBA	8872	0	dBA
TD08D	Track Dozer 08 (PAG - Komatsu D375)	3338	26	dBA	3389	12	dBA	8449	12	dBA	8427	14	dBA	8878	7	dBA
TD08N	Track Dozer 08 (PAG - Komatsu D375)	3338	0	dBA	3389	0	dBA	8449	0	dBA	8427	0	dBA	8878	0	dBA
TD09	Track Dozer 09 (Ore -CAT D9)	2571	28	dBA	2532	7	dBA	8102	7	dBA	8093	8	dBA	8873	3	dBA
TD10	Track Dozer 10 (Ore -CAT D8)	2630	28	dBA	2476	8	dBA	7700	8	dBA	7693	9	dBA	8538	3	dBA
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	5952	19	dBA	5379	25	dBA	3740	29	dBA	3711	21	dBA	4721	16	dBA
TD11N	Track Dozer 11 (NPAG/OB - Komatsu D475)	5952	0	dBA	5379	0	dBA	3740	0	dBA	3711	0	dBA	4721	0	dBA
TD12D	Track Dozer 12 (NPAG/OB - Komatsu D375)	4938	22	dBA	4509	19	dBA	5454	19	dBA	5419	22	dBA	5927	12	dBA
TD12N	Track Dozer 12 (NPAG/OB - Komatsu D375)	4938	0	dBA	4509	0	dBA	5454	0	dBA	5419	0	dBA	5927	0	dBA
TD13	Track Dozer 13 (NPAG/OB -CAT D9)	5167	16	dBA	4570	17	dBA	4224	18	dBA	4219	13	dBA	5545	10	dBA
TD14	Track Dozer 14 (NPAG/OB -CAT D9)	4783	17	dBA	4196	15	dBA	4608	16	dBA	4605	12	dBA	5908	9	dBA
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	4751	17	dBA	4298	14	dBA	5392	13	dBA	5364	15	dBA	6031	7	dBA
TD16	Track Dozer 16 (NPAG/OB -CAT D9)	5585	14	dBA	5031	18	dBA	4164	17	dBA	4137	15	dBA	5076	7	dBA
WD	Komatsu Wheel Dozer KM WD600	3700	8	dBA	3225	4	dBA	5968	5	dBA	5962	3	dBA	6999	-1	dBA
WL1	Komatsu Wheel Loader WA1200	3830	21	dBA	3334	7	dBA	5788	16	dBA	5783	15	dBA	6852	10	dBA
WL2	Komatsu Wheel Loader WA900	3808	21	dBA	3316	9	dBA	5820	16	dBA	5814	14	dBA	6876	10	dBA
WPO1	Water Pump WPO1	3800	9	dBA	3331	-2	dBA	5923	-3	dBA	5915	0	dBA	6910	-4	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
 Location: Township of Chapple ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR12	POR14	POR15	POR16	POR17
Point of Reception Description House 12 - South	Point of Reception Description House 14 - South	Point of Reception Description House 15 - West	Point of Reception Description House 16 - West	Point of Reception Description House 17 - Northwest
Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z
428175 5406947 361.5	427450 5406952 362.9	419623 5410178 358.0	419645 5410314 359.5	419827 5413577 372.5

Source ID	Source Description	Point of Reception 11			Point of Reception 12			Point of Reception 13			Point of Reception 14			Point of Reception 15		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
WP02	Water Pump WP02	3683	9	dBA	3230	2	dBA	6074	1	dBA	6065	0	dBA	7044	-5	dBA
WP03	Water Pump WP03	3614	5	dBA	3161	2	dBA	6122	2	dBA	6114	-1	dBA	7110	-5	dBA
WP04	Water Pump WP04	3555	-6	dBA	3095	1	dBA	6133	2	dBA	6128	-1	dBA	7157	-5	dBA
WP05	Water Pump WP05	3617	-4	dBA	3141	1	dBA	6025	2	dBA	6020	0	dBA	7078	-5	dBA
WP06	Water Pump WP06	3713	-4	dBA	3223	-2	dBA	5903	2	dBA	5898	0	dBA	6972	-4	dBA
WP07	Water Pump WP07	3805	-3	dBA	3302	-12	dBA	5780	-13	dBA	5776	0	dBA	6871	-4	dBA
WP08	Water Pump WP08	3887	8	dBA	3387	-13	dBA	5727	-3	dBA	5721	0	dBA	6791	-4	dBA
WP09	Water Pump WP09	3550	11	dBA	3021	2	dBA	5887	2	dBA	5890	-1	dBA	7111	-4	dBA
WP10	Water Pump WP10	3168	12	dBA	2688	1	dBA	6350	1	dBA	6352	-1	dBA	7512	-2	dBA
WP11	Water Pump WP11	2946	15	dBA	2547	0	dBA	6760	0	dBA	6758	-2	dBA	7809	-3	dBA
WP12	Water Pump WP12	4631	7	dBA	3999	5	dBA	4575	5	dBA	4589	1	dBA	6178	-2	dBA
WP13	Water Pump WP13	4402	8	dBA	3808	4	dBA	4914	4	dBA	4918	1	dBA	6299	0	dBA
WP14	Water Pump WP14	6117	3	dBA	5523	7	dBA	3446	7	dBA	3421	5	dBA	4600	-1	dBA
WP15	Water Pump WP15	6085	3	dBA	5493	1	dBA	3485	2	dBA	3460	5	dBA	4626	-1	dBA
WP16	Water Pump WP16	4291	7	dBA	3852	2	dBA	5747	2	dBA	5726	1	dBA	6493	-2	dBA
WP17	Water Pump WP17	5729	2	dBA	5236	6	dBA	4553	5	dBA	4510	4	dBA	5005	-3	dBA
WP18	Water Pump WP18	6737	3	dBA	6068	12	dBA	2410	12	dBA	2434	4	dBA	4626	1	dBA
WP19	Water Pump WP19	3889	-12	dBA	3621	-20	dBA	6830	-19	dBA	6804	-1	dBA	7334	-6	dBA
WP20	Pinewood River Water Pump	12581	-7	dBA	11856	5	dBA	5105	5	dBA	5206	-2	dBA	7785	25	dBA
WS	Wet Scrubber	4314	8	dBA	4097	1	dBA	7005	1	dBA	6970	1	dBA	7248	-5	dBA
MGR_SP	Motor Grader Route Stockpile	N/A	12	dBA	N/A	-1	dBA	N/A	0	dBA	N/A	-1	dBA	N/A	-5	dBA
MGR_NPAG	Motor Grader Route NPAG	N/A	10	dBA	N/A	6	dBA	N/A	6	dBA	N/A	5	dBA	N/A	1	dBA
MGR_OB	Motor Grader Route OB	N/A	7	dBA	N/A	3	dBA	N/A	3	dBA	N/A	3	dBA	N/A	-3	dBA
MGR_OPMill	Motor Grader Route Open Pit to Mill	N/A	11	dBA	N/A	2	dBA	N/A	3	dBA	N/A	1	dBA	N/A	-4	dBA
MGR_PAG	Motor Grader Route PAG	N/A	8	dBA	N/A	-5	dBA	N/A	-5	dBA	N/A	-5	dBA	N/A	-9	dBA
TRE_NPAG	Truck Route-NPAG (Empty Truck)	N/A	14	dBA	N/A	10	dBA	N/A	10	dBA	N/A	9	dBA	N/A	7	dBA
TRE_OB	Truck Route-Overburden (Empty Truck)	N/A	14	dBA	N/A	9	dBA	N/A	10	dBA	N/A	9	dBA	N/A	6	dBA
TRE_OPMill	Truck Route Open Pit to Mill (Empty Truck)	N/A	11	dBA	N/A	2	dBA	N/A	4	dBA	N/A	2	dBA	N/A	-1	dBA
TRE_PAG	Truck Route PAG (Empty Truck)	N/A	17	dBA	N/A	7	dBA	N/A	8	dBA	N/A	8	dBA	N/A	4	dBA
TRE_SP	Truck Route Stockpile (Empty Truck)	N/A	12	dBA	N/A	3	dBA	N/A	4	dBA	N/A	3	dBA	N/A	-1	dBA
TRL_NPAG	Truck Route-NPAG (Loaded Truck)	N/A	28	dBA	N/A	25	dBA	N/A	25	dBA	N/A	23	dBA	N/A	21	dBA
TRL_OB	Truck Route-Overburden (Loaded Truck)	N/A	28	dBA	N/A	24	dBA	N/A	24	dBA	N/A	23	dBA	N/A	20	dBA
TRL_OPMill	Truck Route Open Pit to Mill (Loaded Truck)	N/A	24	dBA	N/A	16	dBA	N/A	17	dBA	N/A	17	dBA	N/A	13	dBA
TRL_PAG	Truck Route PAG (Loaded Truck)	N/A	31	dBA	N/A	22	dBA	N/A	22	dBA	N/A	22	dBA	N/A	18	dBA
TRL_SP	Truck Route Stockpile (Loaded Truck)	N/A	26	dBA	N/A	17	dBA	N/A	18	dBA	N/A	17	dBA	N/A	13	dBA
WTR_NPAG	Water Truck Route NPAG	N/A	8	dBA	N/A	4	dBA	N/A	4	dBA	N/A	2	dBA	N/A	-2	dBA
WTR_OB	Water Truck Route OB	N/A	5	dBA	N/A	1	dBA	N/A	1	dBA	N/A	1	dBA	N/A	-6	dBA
WTR_OPMill	Water Truck Route Open Pit to Mill	N/A	10	dBA	N/A	-1	dBA	N/A	0	dBA	N/A	-2	dBA	N/A	-8	dBA
WTR_PAG	Water Truck Route PAG	N/A	6	dBA	N/A	-8	dBA	N/A	-8	dBA	N/A	-8	dBA	N/A	-14	dBA
WTR_SP	Water Truck Route Stockpile	N/A	11	dBA	N/A	-4	dBA	N/A	-3	dBA	N/A	-4	dBA	N/A	-10	dBA
LD4_TR	LD4 Aggregate Pit Truck Route	N/A	10	dBA	N/A	17	dBA	N/A	17	dBA	N/A	19	dBA	N/A	7	dBA
OC3_TR	OC3 Aggregate Pit Truck Route	N/A	7	dBA	N/A	-7	dBA	N/A	-7	dBA	N/A	-5	dBA	N/A	-9	dBA
EO_TR	EO Aggregate Pit Truck Route	N/A	17	dBA	N/A	13	dBA	N/A	13	dBA	N/A	15	dBA	N/A	6	dBA
Roen_TR	Roen Aggregate Pit Truck Route	N/A	12	dBA	N/A	14	dBA	N/A	13	dBA	N/A	12	dBA	N/A	5	dBA
EG1	Emergency Generator 1 (CAT 2.5 MW)	4508	36	dBA	4314	30	dBA	7112	30	dBA	7072	31	dBA	7239	25	dBA
EG2	Emergency Generator 2 (CAT 2.5 MW)	6021	33	dBA	5739	31	dBA	6335	33	dBA	6269	33	dBA	5864	26	dBA
FP1	Fire Pump 1	4470	45	dBA	4260	41	dBA	7017	41	dBA	6978	44	dBA	7182	40	dBA
FP2	Fire Pump 2	4437	45	dBA	4225	41	dBA	7012	41	dBA	6974	44	dBA	7194	40	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
Location: Township of Chapple ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR19	POR20	POR21	POR22	POR23
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description
Vacant Lot Near Pinewood River	Vacant Lot 56041-0138	Vacant Lot 56036-0023	Vacant Lot 56036-0184	Vacant Lot 56041-0037
Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates
X Y Z	X Y Z	X Y Z	X Y Z	X Y Z
416140 5407200 344.5	425325 5406877 373.2	429474 5408438 384.1	428602 5406751 366.5	424360 5407033 369.5

Source ID	Source Description	Point of Reception 16			Point of Reception 17			Point of Reception 18			Point of Reception 19			Point of Reception 20		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
AC1	WMP Air Compressor 1	6605	1	dBA	6134	-4	dBA	8786	-4	dBA	8745	3	dBA	5406	1	dBA
AC2	WMP Air Compressor 2	6128	-1	dBA	6741	-6	dBA	9533	-5	dBA	9447	2	dBA	5962	-1	dBA
AC3	WMP Air Compressor 3	6506	-2	dBA	7468	-6	dBA	10058	-6	dBA	10078	-1	dBA	6716	-2	dBA
AC4	WMP Air Compressor 4	7081	0	dBA	6490	-5	dBA	8878	-5	dBA	8959	1	dBA	5813	1	dBA
BD1	Blast Hole Drill 1 - Sandvik DR4611	9612	22	dBA	2734	18	dBA	4196	18	dBA	4257	11	dBA	2795	21	dBA
BD2	Blast Hole Drill 2 - Sandvik DR4611	9628	21	dBA	2735	17	dBA	4180	16	dBA	4245	11	dBA	2801	22	dBA
BD3	Blast Hole Drill 3 - Sandvik DP15001	9578	4	dBA	2662	10	dBA	4193	6	dBA	4223	1	dBA	2722	4	dBA
BD4	Blast Hole Drill 4 - Sandvik DP15001	9591	5	dBA	2663	10	dBA	4180	6	dBA	4212	1	dBA	2728	4	dBA
C	Crusher	11052	18	dBA	3634	16	dBA	3229	13	dBA	3911	17	dBA	3900	18	dBA
DC1	Dust Collector 1	11069	14	dBA	3675	12	dBA	3247	9	dBA	3946	13	dBA	4027	14	dBA
DC2	Dust Collector 2	10972	10	dBA	3821	11	dBA	3513	8	dBA	4222	9	dBA	4112	10	dBA
E1	Komatsu Diesel Excavator PC5500	9579	21	dBA	2729	20	dBA	4226	19	dBA	4279	13	dBA	2778	21	dBA
E2	Komatsu Diesel Excavator PC5500	9708	22	dBA	2733	18	dBA	4097	18	dBA	4178	15	dBA	2829	22	dBA
E3	Komatsu Diesel Excavator PC8000	9660	26	dBA	2707	23	dBA	4132	21	dBA	4194	17	dBA	2789	26	dBA
E4	Komatsu Diesel Excavator PC3000	9626	27	dBA	2683	27	dBA	4154	25	dBA	4201	20	dBA	2757	27	dBA
E5	Komatsu Diesel Excavator PC800LC	9743	14	dBA	2693	10	dBA	4039	9	dBA	4113	8	dBA	2809	14	dBA
E6	Komatsu Diesel Excavator PC360LC	9669	17	dBA	2691	16	dBA	4115	13	dBA	4173	10	dBA	2780	17	dBA
EO_E	East Outcrop Aggregate Pit Excavator PC360LC	10992	23	dBA	3118	19	dBA	2845	22	dBA	3321	21	dBA	3580	23	dBA
EO_FEL	East Outcrop Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	11000	25	dBA	3110	20	dBA	2828	23	dBA	3302	23	dBA	3576	24	dBA
EO_PS	East Outcrop Gravel Pit Mobile Primary Crusher (PowerScreen)	10986	24	dBA	3109	22	dBA	2846	24	dBA	3317	23	dBA	3570	24	dBA
EO_SCNR	East Outcrop Gravel Pit Mobile Screener (Atlas Copco HCS3715)	10966	11	dBA	3100	12	dBA	2865	11	dBA	3328	11	dBA	3557	10	dBA
LD4_E	LD4 Aggregate Pit Excavator PC360LC	7576	19	dBA	4182	12	dBA	6735	13	dBA	6650	21	dBA	3593	19	dBA
LD4_FEL	LD4 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	7649	22	dBA	4162	17	dBA	6674	17	dBA	6603	23	dBA	3588	22	dBA
LD4_PS	LD4 Gravel Pit Mobile Primary Crusher (PowerScreen)	7589	21	dBA	4181	15	dBA	6726	15	dBA	6644	23	dBA	3594	21	dBA
LD4_SCNR	LD4 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	7637	9	dBA	4144	4	dBA	6670	4	dBA	6593	11	dBA	3567	9	dBA
Outcrop3_E	Outcrop 3 Aggregate Pit Excavator PC360LC	12838	17	dBA	4690	25	dBA	1973	21	dBA	3465	15	dBA	5317	17	dBA
Outcrop3_FEL	Outcrop 3 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	12812	20	dBA	4678	28	dBA	1995	23	dBA	3476	19	dBA	5300	20	dBA
Outcrop3_PS	Outcrop 3 Gravel Pit Mobile Primary Crusher (PowerScreen)	12830	19	dBA	4682	26	dBA	1970	24	dBA	3459	18	dBA	5308	19	dBA
Outcrop3_SCNR	Outcrop3 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	12795	8	dBA	4645	13	dBA	1966	11	dBA	3438	6	dBA	5271	8	dBA
PG1	Pinewood River Pump/house Generator (CAT 660 kW)	574	2	dBA	9738	-5	dBA	13956	-4	dBA	13017	2	dBA	8772	2	dBA
RD1	RC Drill Sandvik DR590	9832	15	dBA	2686	11	dBA	3941	10	dBA	4030	11	dBA	2836	15	dBA
RD2	RC Drill Sandvik DR580	9815	12	dBA	2657	9	dBA	3944	8	dBA	4019	9	dBA	2807	12	dBA
Roen_E	Roen Aggregate Pit Excavator PC360LC	10554	20	dBA	4711	17	dBA	4867	15	dBA	5600	17	dBA	4743	20	dBA
Roen_FEL	Roen Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	10623	24	dBA	4677	20	dBA	4766	19	dBA	5514	20	dBA	4730	24	dBA
Roen_PS	Roen Gravel Pit Mobile Primary Crusher (PowerScreen)	10531	23	dBA	4717	19	dBA	4895	17	dBA	5623	19	dBA	4743	23	dBA
Roen_SCNR	Roen Gravel Pit Mobile Screener (Atlas Copco HCS3715)	10460	9	dBA	4652	7	dBA	4895	6	dBA	5596	8	dBA	4669	9	dBA
T1	Transformer 1	11314	16	dBA	4547	18	dBA	3901	15	dBA	4833	16	dBA	4793	16	dBA
T2	Transformer 2	11310	16	dBA	4535	18	dBA	3893	15	dBA	4822	16	dBA	4782	16	dBA
TD01	Track Dozer 01 (Pit - Komatsu D475)	9769	22	dBA	2714	16	dBA	4023	16	dBA	4110	15	dBA	2836	21	dBA
TD02	Track Dozer 02 (Pit - CAT D10)	9528	20	dBA	2707	22	dBA	4266	19	dBA	4300	11	dBA	2741	20	dBA
TD03	Track Dozer 03 (Pit - CAT D10)	9648	21	dBA	2697	20	dBA	4139	15	dBA	4195	13	dBA	2777	21	dBA
TD04	Track Dozer 04 (Pit - CAT D10)	9766	21	dBA	2775	13	dBA	4060	14	dBA	4167	12	dBA	2884	21	dBA
TD05	Track Dozer 05 (PAG - Komatsu D375)	12334	17	dBA	4175	27	dBA	1988	21	dBA	3214	15	dBA	4787	17	dBA
TD06	Track Dozer 06 (PAG - Komatsu D375)	12161	18	dBA	3795	28	dBA	1736	23	dBA	2778	19	dBA	4458	18	dBA
TD07D	Track Dozer 07 (PAG - Komatsu D475)	12097	23	dBA	4019	32	dBA	2164	27	dBA	3266	21	dBA	4600	23	dBA
TD07N	Track Dozer 07 (PAG - Komatsu D475)	12097	0	dBA	4019	0	dBA	2164	0	dBA	3266	0	dBA	4600	0	dBA
TD08D	Track Dozer 08 (PAG - Komatsu D375)	12324	22	dBA	4377	31	dBA	2318	25	dBA	3573	20	dBA	4934	22	dBA
TD08N	Track Dozer 08 (PAG - Komatsu D375)	12324	0	dBA	4377	0	dBA	2318	0	dBA	3573	0	dBA	4934	0	dBA
TD09	Track Dozer 09 (Ore - CAT D9)	11775	20	dBA	3515	26	dBA	2059	23	dBA	2870	21	dBA	4131	19	dBA
TD10	Track Dozer 10 (Ore - CAT D8)	11365	25	dBA	3214	25	dBA	2400	26	dBA	2979	22	dBA	3778	24	dBA
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	7907	27	dBA	4070	16	dBA	6439	17	dBA	6414	29	dBA	3550	27	dBA
TD11N	Track Dozer 11 (NPAG/OB - Komatsu D475)	7907	0	dBA	4070	0	dBA	6439	0	dBA	6414	0	dBA	3550	0	dBA
TD12D	Track Dozer 12 (NPAG/OB - Komatsu D375)	9592	28	dBA	3900	20	dBA	5004	19	dBA	5365	24	dBA	3795	28	dBA
TD12N	Track Dozer 12 (NPAG/OB - Komatsu D375)	9592	0	dBA	3900	0	dBA	5004	0	dBA	5365	0	dBA	3795	0	dBA
TD13	Track Dozer 13 (NPAG/OB - CAT D9)	8090	25	dBA	3227	13	dBA	5797	13	dBA	5633	27	dBA	2752	25	dBA
TD14	Track Dozer 14 (NPAG/OB - CAT D9)	8404	26	dBA	2947	13	dBA	5406	13	dBA	5248	28	dBA	2571	26	dBA
TD15	Track Dozer 15 (NPAG/OB - CAT D9)	9455	23	dBA	3624	14	dBA	4916	14	dBA	5186	20	dBA	3514	23	dBA
TD16	Track Dozer 16 (NPAG/OB - CAT D9)	8282	18	dBA	3842	12	dBA	6020	12	dBA	6044	20	dBA	3411	18	dBA
WD	Komatsu Wheel Dozer KM WD600	9711	9	dBA	2698	6	dBA	4075	4	dBA	4145	2	dBA	2801	9	dBA
WL1	Komatsu Wheel Loader WA1200	9535	14	dBA	2688	20	dBA	4249	17	dBA	4279	9	dBA	2728	14	dBA
WL2	Komatsu Wheel Loader WA900	9567	19	dBA	2691	19	dBA	4219	17	dBA	4256	11	dBA	2742	19	dBA
WP01	Water Pump WP01	9702	11	dBA	2800	5	dBA	4139	5	dBA	4242	3	dBA	2881	10	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
 Location: Township of Chapple ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR19	POR20	POR21	POR22	POR23
Point of Reception Description Vacant Lot Near Pinewood River	Point of Reception Description Vacant Lot 56041-0138	Point of Reception Description Vacant Lot 56036-0023	Point of Reception Description Vacant Lot 56036-0184	Point of Reception Description Vacant Lot 56041-0037
Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z	Point of reception coordinates X Y Z
416140 5407200 344.5	425325 5406877 373.2	429474 5408438 384.1	428602 5406751 366.5	424360 5407033 369.5

Source ID	Source Description	Point of Reception 16			Point of Reception 17			Point of Reception 18			Point of Reception 19			Point of Reception 20		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
WP02	Water Pump WP02	9842	11	dBA	2795	-6	dBA	3991	3	dBA	4121	5	dBA	2928	10	dBA
WP03	Water Pump WP03	9871	6	dBA	2747	-5	dBA	3934	-1	dBA	4053	1	dBA	2899	6	dBA
WP04	Water Pump WP04	9856	-2	dBA	2672	-10	dBA	3908	-10	dBA	3996	-6	dBA	2834	-2	dBA
WP05	Water Pump WP05	9742	-4	dBA	2635	-4	dBA	4009	-7	dBA	4062	-7	dBA	2761	-4	dBA
WP06	Water Pump WP06	9627	-3	dBA	2637	2	dBA	4130	-6	dBA	4160	-6	dBA	2720	-3	dBA
WP07	Water Pump WP07	9509	-6	dBA	2636	4	dBA	4250	-6	dBA	4256	-8	dBA	2675	-6	dBA
WP08	Water Pump WP08	9482	-1	dBA	2707	6	dBA	4312	4	dBA	4337	-6	dBA	2725	-1	dBA
WP09	Water Pump WP09	9500	14	dBA	2322	6	dBA	4117	7	dBA	4007	13	dBA	2412	14	dBA
WP10	Water Pump WP10	9938	16	dBA	2332	8	dBA	3655	8	dBA	3616	12	dBA	2602	16	dBA
WP11	Water Pump WP11	10377	15	dBA	2557	10	dBA	3257	9	dBA	3375	11	dBA	2944	15	dBA
WP12	Water Pump WP12	8145	15	dBA	2540	3	dBA	5447	4	dBA	5101	18	dBA	2070	13	dBA
WP13	Water Pump WP13	8582	15	dBA	2581	4	dBA	5090	4	dBA	4869	14	dBA	2278	15	dBA
WP14	Water Pump WP14	7592	7	dBA	4111	0	dBA	6677	1	dBA	6583	9	dBA	3524	7	dBA
WP15	Water Pump WP15	7629	7	dBA	4091	0	dBA	6640	1	dBA	6550	9	dBA	3512	7	dBA
WP16	Water Pump WP16	9703	9	dBA	3318	5	dBA	4465	5	dBA	4723	9	dBA	3319	9	dBA
WP17	Water Pump WP17	8816	6	dBA	4281	2	dBA	5941	1	dBA	6173	7	dBA	3955	6	dBA
WP18	Water Pump WP18	6205	5	dBA	4268	-2	dBA	7621	-1	dBA	7206	8	dBA	3435	5	dBA
WP19	Water Pump WP19	10799	-12	dBA	3727	-12	dBA	3630	-14	dBA	4265	-13	dBA	3987	-12	dBA
WP20	Pinewood River Water Pump	568	-2	dBA	9732	-9	dBA	13950	-8	dBA	13011	-3	dBA	8766	-2	dBA
WS	Wet Scrubber	11100	11	dBA	4271	-11	dBA	3834	-12	dBA	4665	10	dBA	4511	10	dBA
MGR_SP	Motor Grader Route Stockpile	N/A	12	dBA	N/A	10	dBA	N/A	8	dBA	N/A	10	dBA	N/A	11	dBA
MGR_NPAG	Motor Grader Route NPAG	N/A	16	dBA	N/A	7	dBA	N/A	6	dBA	N/A	14	dBA	N/A	16	dBA
MGR_OB	Motor Grader Route OB	N/A	10	dBA	N/A	2	dBA	N/A	2	dBA	N/A	8	dBA	N/A	10	dBA
MGR_OPMill	Motor Grader Route Open Pit to Mill	N/A	12	dBA	N/A	8	dBA	N/A	7	dBA	N/A	9	dBA	N/A	12	dBA
MGR_PAG	Motor Grader Route PAG	N/A	4	dBA	N/A	10	dBA	N/A	6	dBA	N/A	2	dBA	N/A	4	dBA
TRE_NPAG	Truck Route-NPAG (Empty Truck)	N/A	19	dBA	N/A	11	dBA	N/A	11	dBA	N/A	17	dBA	N/A	19	dBA
TRE_OB	Truck Route-Overburden (Empty Truck)	N/A	18	dBA	N/A	11	dBA	N/A	10	dBA	N/A	15	dBA	N/A	18	dBA
TRE_OPMill	Truck Route Open Pit to Mill (Empty Truck)	N/A	12	dBA	N/A	8	dBA	N/A	7	dBA	N/A	9	dBA	N/A	12	dBA
TRE_PAG	Truck Route PAG (Empty Truck)	N/A	17	dBA	N/A	16	dBA	N/A	14	dBA	N/A	15	dBA	N/A	17	dBA
TRE_SP	Truck Route Stockpile (Empty Truck)	N/A	12	dBA	N/A	10	dBA	N/A	9	dBA	N/A	10	dBA	N/A	12	dBA
TRL_NPAG	Truck Route-NPAG (Loaded Truck)	N/A	31	dBA	N/A	25	dBA	N/A	25	dBA	N/A	30	dBA	N/A	31	dBA
TRL_OB	Truck Route-Overburden (Loaded Truck)	N/A	31	dBA	N/A	25	dBA	N/A	25	dBA	N/A	29	dBA	N/A	31	dBA
TRL_OPMill	Truck Route Open Pit to Mill (Loaded Truck)	N/A	25	dBA	N/A	22	dBA	N/A	21	dBA	N/A	23	dBA	N/A	25	dBA
TRL_PAG	Truck Route PAG (Loaded Truck)	N/A	30	dBA	N/A	30	dBA	N/A	28	dBA	N/A	29	dBA	N/A	30	dBA
TRL_SP	Truck Route Stockpile (Loaded Truck)	N/A	25	dBA	N/A	24	dBA	N/A	23	dBA	N/A	23	dBA	N/A	25	dBA
WTR_NPAG	Water Truck Route NPAG	N/A	15	dBA	N/A	4	dBA	N/A	4	dBA	N/A	13	dBA	N/A	15	dBA
WTR_OB	Water Truck Route OB	N/A	8	dBA	N/A	0	dBA	N/A	-1	dBA	N/A	7	dBA	N/A	8	dBA
WTR_OPMill	Water Truck Route Open Pit to Mill	N/A	11	dBA	N/A	6	dBA	N/A	5	dBA	N/A	8	dBA	N/A	11	dBA
WTR_PAG	Water Truck Route PAG	N/A	3	dBA	N/A	9	dBA	N/A	5	dBA	N/A	0	dBA	N/A	2	dBA
WTR_SP	Water Truck Route Stockpile	N/A	10	dBA	N/A	8	dBA	N/A	7	dBA	N/A	8	dBA	N/A	10	dBA
LD4_TR	LD4 Aggregate Pit Truck Route	N/A	14	dBA	N/A	8	dBA	N/A	8	dBA	N/A	15	dBA	N/A	14	dBA
OC3_TR	OC3 Aggregate Pit Truck Route	N/A	1	dBA	N/A	8	dBA	N/A	3	dBA	N/A	0	dBA	N/A	1	dBA
EO_TR	EO Aggregate Pit Truck Route	N/A	18	dBA	N/A	16	dBA	N/A	14	dBA	N/A	17	dBA	N/A	18	dBA
Roen_TR	Roen Aggregate Pit Truck Route	N/A	16	dBA	N/A	10	dBA	N/A	9	dBA	N/A	14	dBA	N/A	16	dBA
EG1	Emergency Generator 1 (CAT 2.5 MW)	11255	35	dBA	4520	37	dBA	3938	34	dBA	4848	35	dBA	4755	35	dBA
EG2	Emergency Generator 2 (CAT 2.5 MW)	10752	34	dBA	5502	33	dBA	5546	31	dBA	6390	33	dBA	5474	34	dBA
FP1	Fire Pump 1	11148	46	dBA	4425	36	dBA	3950	39	dBA	4817	45	dBA	4650	45	dBA
FP2	Fire Pump 2	11136	46	dBA	4392	34	dBA	3926	39	dBA	4786	45	dBA	4619	46	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
 Location: Township of Chapple ON



Point of Reception ID
POR24

Point of Reception ID
POR25

Point of Reception Description
 Vacant Lot 56041-0135

Point of Reception Description
 Vacant Lot 56041-0139

Point of reception coordinates
 X Y Z
 425216 5406873 372.2

Point of reception coordinates
 X Y Z
 426109 5406850 378.7

Source ID	Source Description	Point of Reception 21			Point of Reception 22		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
AC1	WMP Air Compressor 1	6065	0	dBA	6703	0	dBA
AC2	WMP Air Compressor 2	6666	-2	dBA	7344	0	dBA
AC3	WMP Air Compressor 3	7396	-3	dBA	8046	0	dBA
AC4	WMP Air Compressor 4	6427	-1	dBA	7018	0	dBA
BD1	Blast Hole Drill 1- Sandvik DR461i	2744	22	dBA	2836	0	dBA
BD2	Blast Hole Drill 2- Sandvik DR461i	2745	22	dBA	2833	0	dBA
BD3	Blast Hole Drill 3 - Sandvik DP1500i	2672	6	dBA	2772	0	dBA
BD4	Blast Hole Drill 4 - Sandvik DP1500i	2673	6	dBA	2768	0	dBA
C	Crusher	3682	19	dBA	3424	0	dBA
DC1	Dust Collector 1	3722	15	dBA	3466	0	dBA
DC2	Dust Collector 2	3862	10	dBA	3658	0	dBA
E1	Komatsu Diesel Excavator PC5500	2738	23	dBA	2840	0	dBA
E2	Komatsu Diesel Excavator PC5500	2748	18	dBA	2808	0	dBA
E3	Komatsu Diesel Excavator PC3000	2719	26	dBA	2794	0	dBA
E4	Komatsu Diesel Excavator PC3000	2694	28	dBA	2778	0	dBA
E5	Komatsu Diesel Excavator PC800LC	2710	9	dBA	2755	0	dBA
E6	Komatsu Diesel Excavator PC360LC	2704	18	dBA	2775	0	dBA
EO_E	East Outcrop Aggregate Pit Excavator PC360LC	3176	24	dBA	2838	0	dBA
EO_FEL	East Outcrop Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	3169	25	dBA	2826	0	dBA
EO_PS	East Outcrop Gravel Pit Mobile Primary Crusher (PowerScreen)	3166	25	dBA	2829	0	dBA
EO_SCNR	East Outcrop Gravel Pit Mobile Screener (Atlas Copco HCS3715)	3157	11	dBA	2825	0	dBA
LD4_E	LD4 Aggregate Pit Excavator PC360LC	4127	20	dBA	4680	0	dBA
LD4_FEL	LD4 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	4108	20	dBA	4651	0	dBA
LD4_PS	LD4 Gravel Pit Mobile Primary Crusher (PowerScreen)	4126	19	dBA	4677	0	dBA
LD4_SCNR	LD4 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	4090	8	dBA	4635	0	dBA
Outcrop3_E	Outcrop 3 Aggregate Pit Excavator PC360LC	4769	19	dBA	4198	0	dBA
Outcrop3_FEL	Outcrop 3 Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	4757	21	dBA	4190	0	dBA
Outcrop3_PS	Outcrop 3 Gravel Pit Mobile Primary Crusher (PowerScreen)	4761	21	dBA	4189	0	dBA
Outcrop3_SC	Outcrop3 Gravel Pit Mobile Screener (Atlas Copco HCS3715)	4724	9	dBA	4154	0	dBA
PG1	Pinewood River Pumphouse Generator (CAT 660 kW)	9630	1	dBA	10523	0	dBA
RD1	RC Drill Sandvik DR580	2706	11	dBA	2720	0	dBA
RD2	RC Drill Sandvik DR580	2677	9	dBA	2694	0	dBA
Roen_E	Roen Aggregate Pit Excavator PC360LC	4726	20	dBA	4732	0	dBA
Roen_FEL	Roen Gravel Pit Mobile Crushing Plant Loader (CAT 966H)	4693	24	dBA	4682	0	dBA
Roen_PS	Roen Gravel Pit Mobile Primary Crusher (PowerScreen)	4731	23	dBA	4743	0	dBA
Roen_SCNR	Roen Gravel Pit Mobile Screener (Atlas Copco HCS3715)	4664	9	dBA	4686	0	dBA
T1	Transformer 1	4584	17	dBA	4396	0	dBA
T2	Transformer 2	4573	17	dBA	4384	0	dBA
TD01	Track Dozer 01 (Pit - Komatsu D475)	2731	14	dBA	2769	0	dBA
TD02	Track Dozer 02 (Pit -CAT D10)	2714	22	dBA	2832	0	dBA
TD03	Track Dozer 03 (Pit -CAT D10)	2709	22	dBA	2787	0	dBA
TD04	Track Dozer 04 (Pit -CAT D10)	2791	16	dBA	2835	0	dBA
TD05	Track Dozer 05 (PAG - Komatsu D375)	4252	22	dBA	3708	0	dBA
TD06	Track Dozer 06 (PAG - Komatsu D375)	3877	24	dBA	3290	0	dBA
TD07D	Track Dozer 07 (PAG - Komatsu D475)	4093	25	dBA	3586	0	dBA
TD07N	Track Dozer 07 (PAG - Komatsu D475)	4093	0	dBA	3586	0	dBA
TD08D	Track Dozer 08 (PAG - Komatsu D375)	4448	24	dBA	3955	0	dBA
TD08N	Track Dozer 08 (PAG - Komatsu D375)	4448	0	dBA	3955	0	dBA
TD09	Track Dozer 09 (Ore -CAT D9)	3591	25	dBA	3064	0	dBA
TD10	Track Dozer 10 (Ore -CAT D8)	3284	27	dBA	2829	0	dBA
TD11D	Track Dozer 11 (NPAG/OB - Komatsu D475)	4022	25	dBA	4524	0	dBA
TD11N	Track Dozer 11 (NPAG/OB - Komatsu D475)	4022	0	dBA	4524	0	dBA
TD12D	Track Dozer 12 (NPAG/OB - Komatsu D375)	3897	27	dBA	4058	0	dBA
TD12N	Track Dozer 12 (NPAG/OB - Komatsu D375)	3897	0	dBA	4058	0	dBA
TD13	Track Dozer 13 (NPAG/OB -CAT D9)	3181	19	dBA	3679	0	dBA
TD14	Track Dozer 14 (NPAG/OB -CAT D9)	2911	24	dBA	3350	0	dBA
TD15	Track Dozer 15 (NPAG/OB -CAT D9)	3620	18	dBA	3800	0	dBA
TD16	Track Dozer 16 (NPAG/OB -CAT D9)	3803	17	dBA	4241	0	dBA
WD	Komatsu Wheel Dozer KM WD600	2713	3	dBA	2770	0	dBA
WL1	Komatsu Wheel Loader WA1200	2695	16	dBA	2810	0	dBA
WL2	Komatsu Wheel Loader WA900	2700	20	dBA	2805	0	dBA
WP01	Water Pump WP01	2813	7	dBA	2879	0	dBA

Table 2: Point of Reception Sound Impact

Project: RRP
 Location: Township of Chapple ON



Point of Reception ID
POR24

Point of Reception ID
POR25

Point of Reception Description
 Vacant Lot 56041-0135

Point of Reception Description
 Vacant Lot 56041-0139

Point of reception coordinates		
X	Y	Z
425216	5406873	372.2

Point of reception coordinates		
X	Y	Z
426109	5406850	378.7

Source ID	Source Description	Point of Reception 21			Point of Reception 22		
		Distance (m)	Sound Level at PoR	Units	Distance (m)	Sound Level at PoR	Units
WP02	Water Pump WP02	2814	6	dBA	2834	0	dBA
WP03	Water Pump WP03	2768	0	dBA	2774	0	dBA
WP04	Water Pump WP04	2693	-6	dBA	2697	0	dBA
WP05	Water Pump WP05	2652	-6	dBA	2693	0	dBA
WP06	Water Pump WP06	2649	-1	dBA	2730	0	dBA
WP07	Water Pump WP07	2643	-5	dBA	2765	0	dBA
WP08	Water Pump WP08	2712	2	dBA	2846	0	dBA
WP09	Water Pump WP09	2333	13	dBA	2443	0	dBA
WP10	Water Pump WP10	2363	14	dBA	2300	0	dBA
WP11	Water Pump WP11	2604	13	dBA	2392	0	dBA
WP12	Water Pump WP12	2491	13	dBA	3026	0	dBA
WP13	Water Pump WP13	2550	13	dBA	2961	0	dBA
WP14	Water Pump WP14	4055	5	dBA	4609	0	dBA
WP15	Water Pump WP15	4036	5	dBA	4584	0	dBA
WP16	Water Pump WP16	3325	9	dBA	3425	0	dBA
WP17	Water Pump WP17	4254	5	dBA	4590	0	dBA
WP18	Water Pump WP18	4185	7	dBA	4931	0	dBA
WP19	Water Pump WP19	3764	-11	dBA	3597	0	dBA
WP20	Pinewood River Water Pump	9624	-3	dBA	10517	0	dBA
WS	Wet Scrubber	4307	8	dBA	4134	0	dBA
MGR_SP	Motor Grader Route Stockpile	N/A	12	dBA	N/A	0	dBA
MGR_NPAG	Motor Grader Route NPAG	N/A	15	dBA	N/A	0	dBA
MGR_OB	Motor Grader Route OB	N/A	9	dBA	N/A	0	dBA
MGR_OPMill	Motor Grader Route Open Pit to Mill	N/A	12	dBA	N/A	0	dBA
MGR_PAG	Motor Grader Route PAG	N/A	6	dBA	N/A	0	dBA
TRE_NPAG	Truck Route-NPAG (Empty Truck)	N/A	18	dBA	N/A	0	dBA
TRE_OB	Truck Route-Overburden (Empty Truck)	N/A	17	dBA	N/A	0	dBA
TRE_OPMill	Truck Route Open Pit to Mill (Empty Truck)	N/A	11	dBA	N/A	0	dBA
TRE_PAG	Truck Route PAG (Empty Truck)	N/A	17	dBA	N/A	0	dBA
TRE_SP	Truck Route Stockpile (Empty Truck)	N/A	12	dBA	N/A	0	dBA
TRL_NPAG	Truck Route-NPAG (Loaded Truck)	N/A	30	dBA	N/A	0	dBA
TRL_OB	Truck Route-Overburden (Loaded Truck)	N/A	30	dBA	N/A	0	dBA
TRL_OPMill	Truck Route Open Pit to Mill (Loaded Truck)	N/A	24	dBA	N/A	0	dBA
TRL_PAG	Truck Route PAG (Loaded Truck)	N/A	30	dBA	N/A	0	dBA
TRL_SP	Truck Route Stockpile (Loaded Truck)	N/A	25	dBA	N/A	0	dBA
WTR_NPAG	Water Truck Route NPAG	N/A	14	dBA	N/A	0	dBA
WTR_OB	Water Truck Route OB	N/A	8	dBA	N/A	0	dBA
WTR_OPMill	Water Truck Route Open Pit to Mill	N/A	10	dBA	N/A	0	dBA
WTR_PAG	Water Truck Route PAG	N/A	4	dBA	N/A	0	dBA
WTR_SP	Water Truck Route Stockpile	N/A	11	dBA	N/A	0	dBA
LD4_TR	LD4 Aggregate Pit Truck Route	N/A	12	dBA	N/A	0	dBA
OC3_TR	OC3 Aggregate Pit Truck Route	N/A	5	dBA	N/A	0	dBA
EO_TR	EO Aggregate Pit Truck Route	N/A	18	dBA	N/A	0	dBA
Roen_TR	Roen Aggregate Pit Truck Route	N/A	15	dBA	N/A	0	dBA
EG1	Emergency Generator 1 (CAT 2.5 MW)	4556	35	dBA	4379	0	dBA
EG2	Emergency Generator 2 (CAT 2.5 MW)	5511	34	dBA	5549	0	dBA
FP1	Fire Pump 1	4460	46	dBA	4296	0	dBA
FP2	Fire Pump 2	4427	46	dBA	4262	0	dBA

Table 3: Acoustic Assessment Summary Table

Project: RRP
 Location: Township of Chapple ON



Point of Reception ID	Point of Reception Description	Operation	Time Period ^[1]	Operational Sound Level at POR (dBA) ^[2]		Verified by Acoustic Audit ^[3] (Yes/No)	Performance Limit ^[4] (dBA/dBAI)	Performance Limit Source ^[5] (C / M / D)	Compliance with Performance Limit (Yes/No)
				Early Operations	Life of Mine Operations				
POR01	House 01 - North	Regular	Daytime	35	N/A	No	45	D	Yes
			Evening/Night	34	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	48		No	50		Yes
POR02	House 02 - East	Regular	Daytime	35	N/A	No	45	D	Yes
			Evening/Night	34	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	43		No	50		Yes
POR03	House 03 - East	Regular	Daytime	35	N/A	No	45	D	Yes
			Evening/Night	34	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	45		No	50		Yes
POR04	House 04 - East	Regular	Daytime	35	N/A	No	45	D	Yes
			Evening/Night	34	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	45		No	50		Yes
POR06	House 06 -Southeast	Regular	Daytime	37	N/A	No	45	D	Yes
			Evening/Night	35	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	42		No	50		Yes
POR07	House 07 - South	Regular	Daytime	35	N/A	No	45	D	Yes
			Evening/Night	34	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	40		No	50		Yes
POR08	House 08 - South	Regular	Daytime	36	N/A	No	45	D	Yes
			Evening/Night	35	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	40		No	50		Yes
POR09	House 9 - South	Regular	Daytime	36	N/A	No	45	D	Yes
			Evening/Night	35	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	41		No	50		Yes
POR10	House 10 - South	Regular	Daytime	37	N/A	No	45	D	Yes
			Evening/Night	36	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	42		No	50		Yes

Table 3: Acoustic Assessment Summary Table

Project: RRP
 Location: Township of Chapple ON



Point of Reception ID	Point of Reception Description	Operation	Time Period ^[1]	Operational Sound Level at POR (dBA) ^[2]		Verified by Acoustic Audit ^[3] (Yes/No)	Performance Limit ^[4] (dBA/dBAI)	Performance Limit Source ^[5] (C / M / D)	Compliance with Performance Limit (Yes/No)
				Early Operations	Life of Mine Operations				
POR11	House 11 - South	Regular	Daytime	38	N/A	No	45	D	Yes
			Evening/Night	37	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	43		No	50		Yes
POR12	House 12 - South	Regular	Daytime	38	N/A	No	45	D	Yes
			Evening/Night	37	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	44		No	50		Yes
POR14	House 14 - South	Regular	Daytime	41	N/A	No	45	D	Yes
			Evening/Night	40	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	48		No	50		Yes
POR15	House 15 - West	Regular	Daytime	35	N/A	No	45	D	Yes
			Evening/Night	33	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	44		No	50		Yes
POR16	House 16 - West	Regular	Daytime	36	N/A	No	45	D	Yes
			Evening/Night	35	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	44		No	50		Yes
POR17	House 17 - Northwest	Regular	Daytime	34	N/A	No	45	D	Yes
			Evening/Night	33	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	48		No	50		Yes
POR19	Vacant Lot Near Pinewood River	Regular	Daytime	33	N/A	No	45	D	Yes
			Evening/Night	32	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	43		No	50		Yes
POR20	Vacant Lot 56041-0138	Regular	Daytime	41	N/A	No	45	D	Yes
			Evening/Night	40	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	49		No	50		Yes
POR21	Vacant Lot 56036-0023	Regular	Daytime	40	N/A	No	45	D	Yes
			Evening/Night	39	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	41		No	50		Yes

Table 3: Acoustic Assessment Summary Table

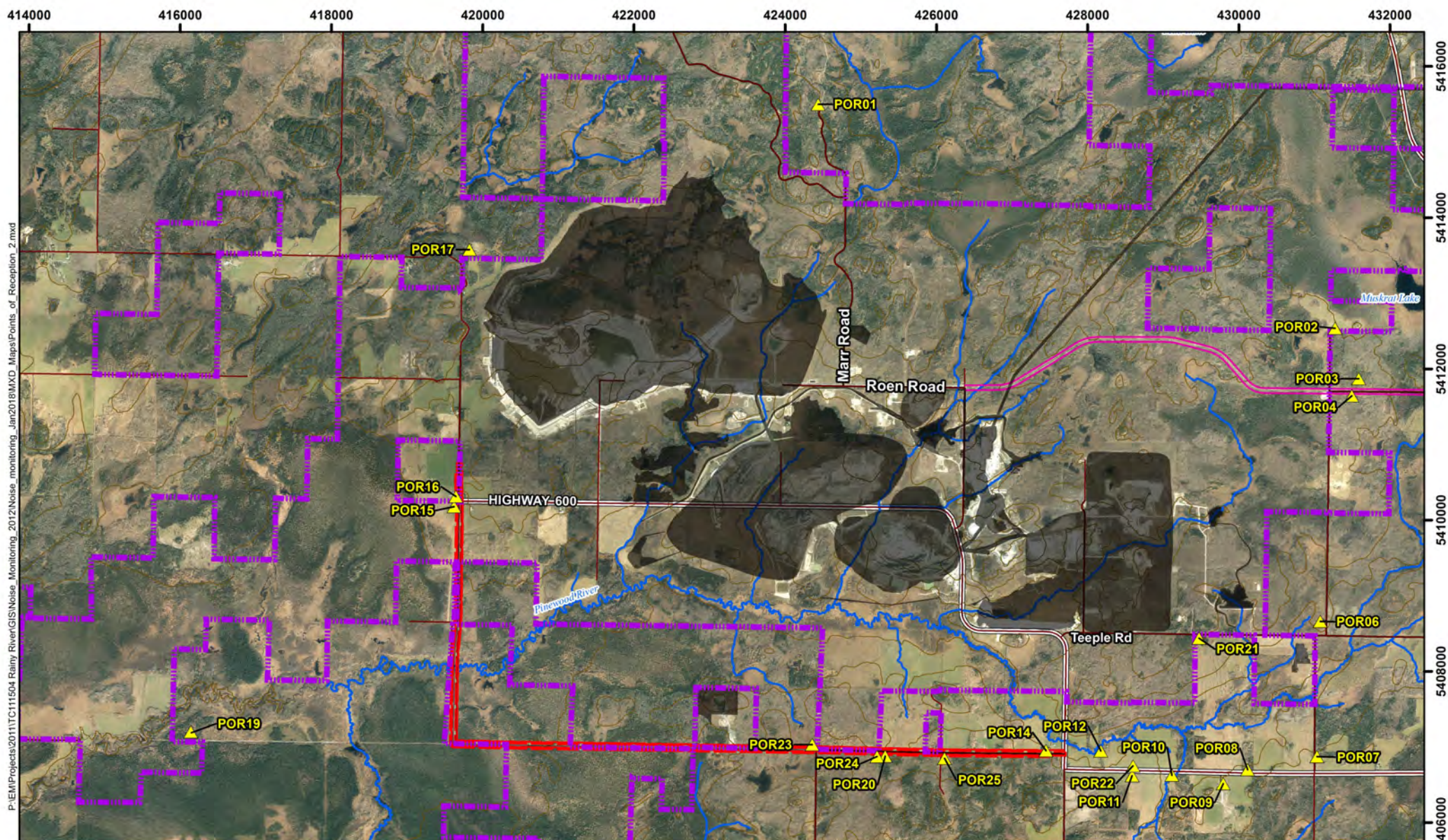
Project: RRP
 Location: Township of Chapple ON



Point of Reception ID	Point of Reception Description	Operation	Time Period ^[1]	Operational Sound Level at POR (dBA) ^[2]		Verified by Acoustic Audit ^[3] (Yes/No)	Performance Limit ^[4] (dBA/dBAI)	Performance Limit Source ^[5] (C / M / D)	Compliance with Performance Limit (Yes/No)
				Early Operations	Life of Mine Operations				
POR22	Vacant Lot 56036-0184	Regular	Daytime	38	N/A	No	45	D	Yes
			Evening/Night	37	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	43		No	50		Yes
POR23	Vacant Lot 56041-0037	Regular	Daytime	39	N/A	No	45	D	Yes
			Evening/Night	39	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	48		No	50		Yes
POR24	Vacant Lot 56041-0135	Regular	Daytime	41	N/A	No	45	D	Yes
			Evening/Night	40	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	49		No	50		Yes
POR25	Vacant Lot 56041-0139	Regular	Daytime	41	N/A	No	45	D	Yes
			Evening/Night	40	N/A	No	40		Yes
		Emergency Equipment Testing	Daytime	49		No	50		Yes

Notes :

- 1 Daytime occurs from 0700-1900h. Evening occurs from 1900h to 2300h. Night-time occurs from 2300-0700h
- 2 Worst-case cumulative sound level from all applicable sources operating.
- 3 Has an acoustic audit (as defined in Publication NPC-233) been conducted with source in place and operating?
- 4 Applicable worst-case NPC-300 sound level limit.
- 5 Performance limit (aka guideline limit) based on following:
 C = Calculated based on road traffic volumes in compliance with NPC-206 requirements.
 M = Measured based on monitoring for a minimum 48 hour period, in accordance with NPC-233 requirements.
 D = Default guideline minima per NCP300, as applicable (e.g., 45 dBA daytime limit for Class 3 Areas)



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LEGEND

- | | | |
|-----------------------------|--------------------------------------|-------------------------|
| Receptor (labelled with ID) | Approximate Principal RRP Facilities | Contours, 10 m interval |
| RRP-NG Property Boundary | Highway Re-alignment | Existing Highway |
| | East Access Road | Existing Road |
| | | River |

NOTES:
 - Aerial Imagery provided by NewGold Scene date is October 2017.
 - Only major facilities are shown connecting infrastructure and supporting facilities are generally shown.

newgold[™] Rainy River Project

RAINY RIVER MINE
Site Aerial Map with Points of Reception

Datum: NAD83
 Projection: UTM Zone 15N



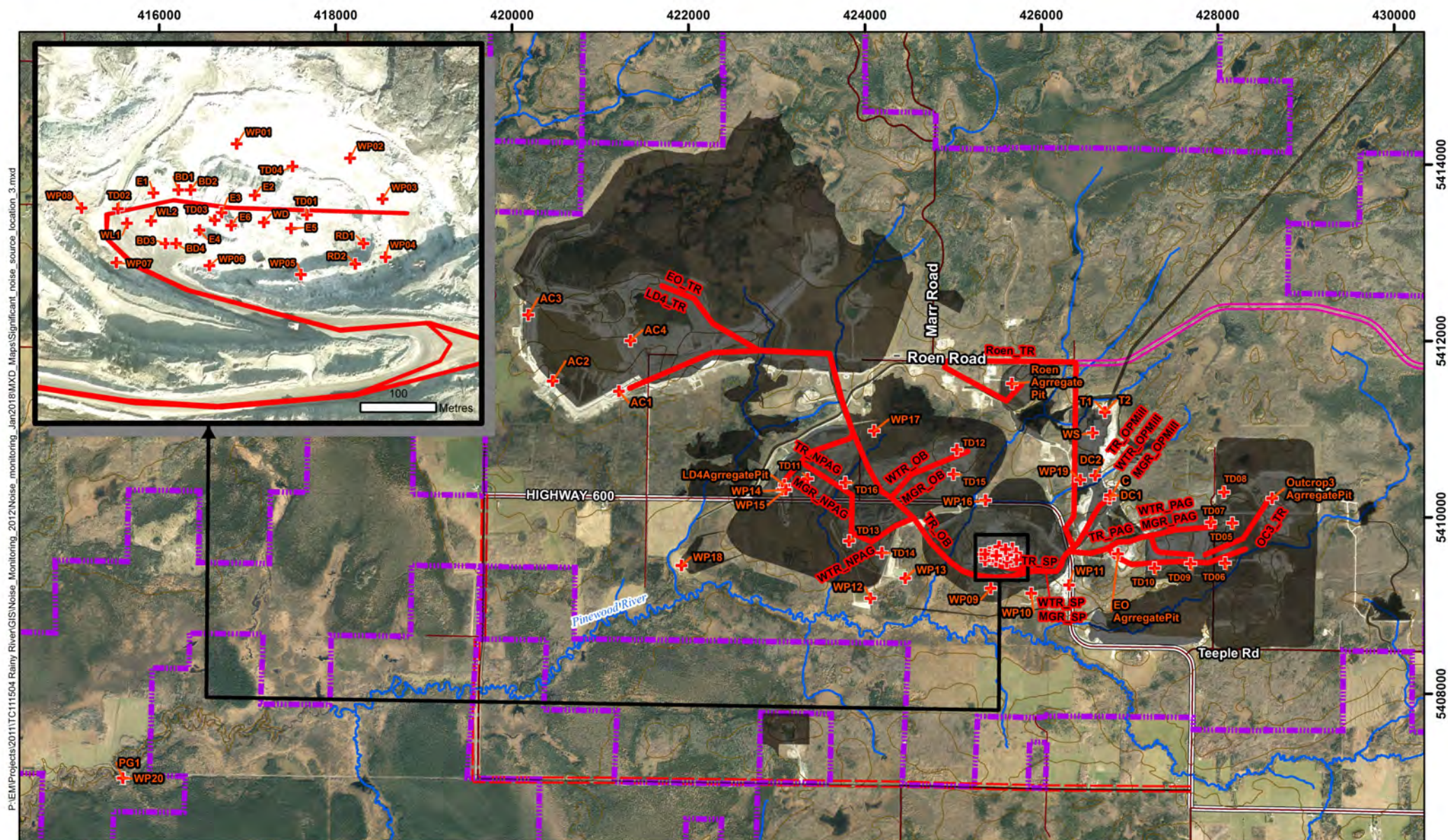
PROJECT N^o: TC111504

FIGURE: 1

SCALE: 1:70,000

DATE: January 2018





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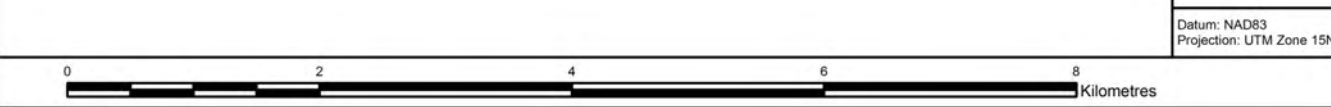
LEGEND

- | | | |
|---------------------------------|--------------------------------------|-------------------------|
| Point Source (labelled with ID) | Approximate Principal RRP Facilities | Contours, 10 m interval |
| Line Source (labelled with ID) | Highway Re-alignment | Existing Highway |
| RRP-NG Property Boundary | East Access Road | Existing Road |
| | | River |

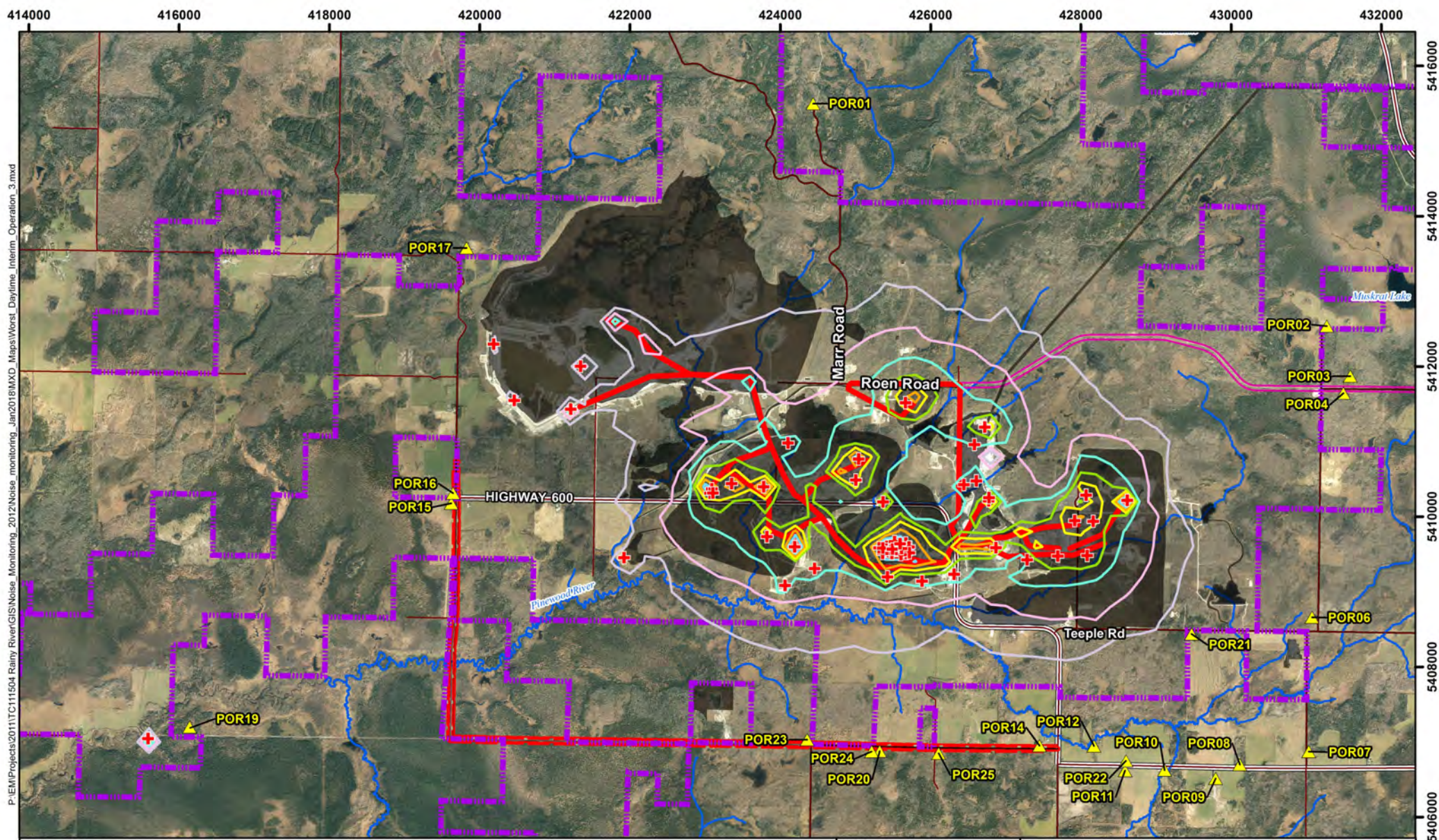
NOTES:
 - Aerial Imagery provided by NewGold Scene date is October 2017.
 - Only major facilities are shown connecting infrastructure and supporting facilities are generally shown.

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RAINY RIVER MINE
Significant Sound Source Locations



Datum: NAD83 Projection: UTM Zone 15N	PROJECT N ^o : TC111504	FIGURE: 2
	SCALE: 1:60,000	DATE: January 2018



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LEGEND

- + Point Source
- Line Source
- ▲ Receptor (labelled with ID)
- RRP-NG Property Boundary

Proposed Site Features

- Approximate Principal RRP Facilities
- Highway Re-alignment
- East Access Road

Worst Daytime Interim Operation dBA Contours

- | | | |
|---|---|--|
| >=45 | >=60 | >=75 |
| >=50 | >=65 | >=80 |
| >=55 | >=70 | >=85 |

NOTES:
 - Aerial Imagery provided by NewGold Scene date is October 2017.
 - Only major facilities are shown connecting infrastructure and supporting facilities are generally shown.

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RAINY RIVER MINE
Sound Contours for Worst-Case Daytime Early Operations

Datum: NAD83
 Projection: UTM Zone 15N



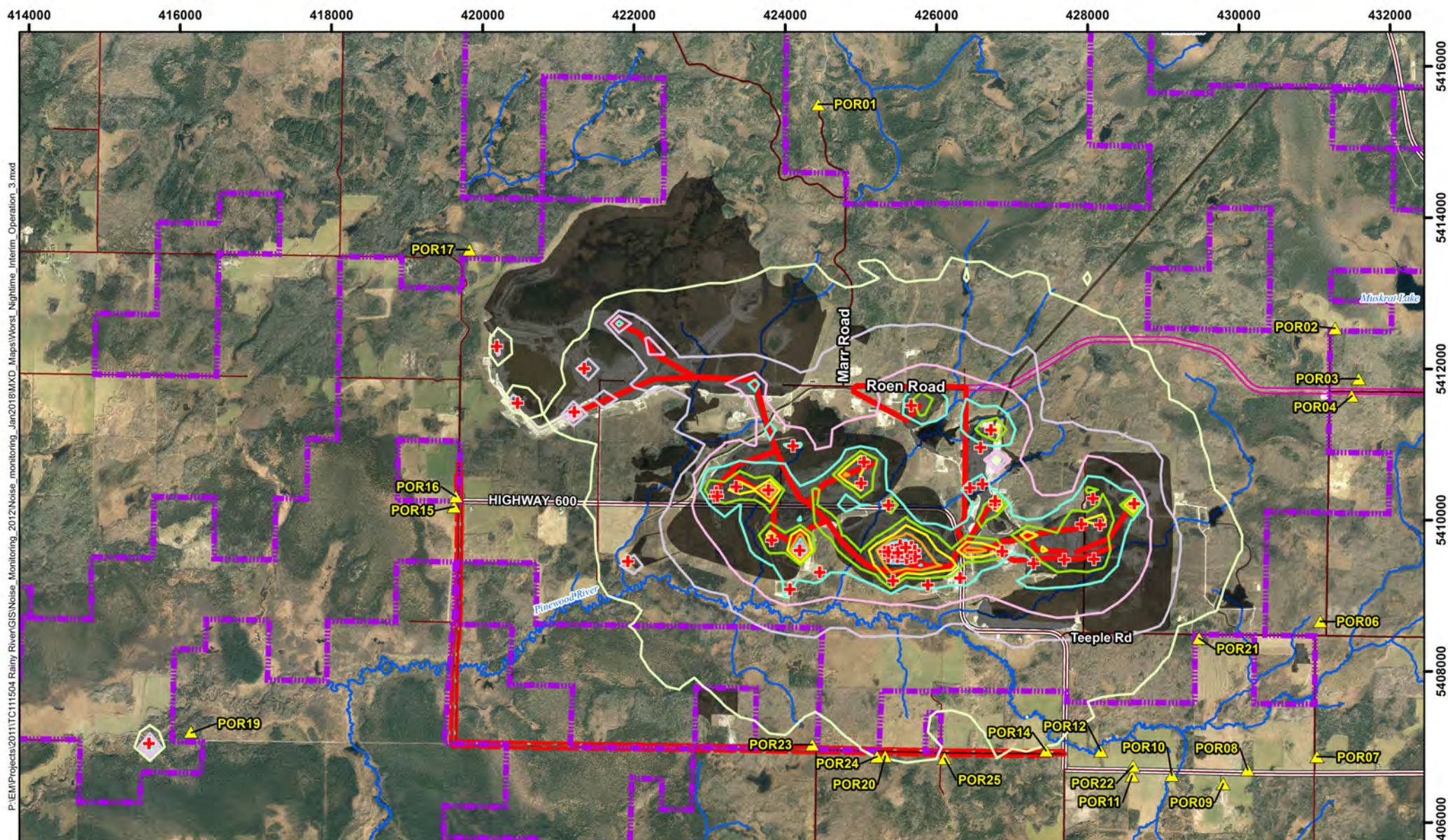
PROJECT N^o: TC111504

FIGURE: 3



SCALE: 1:70,000

DATE: January 2018



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LEGEND

- | | | | | | | | | | | | | | |
|-----------------------------|---|------|------|------|------|------|------|------|------|------|------|--|--|
| Point Source | Approximate Principal RRP Facilities | | | | | | | | | | | | |
| Line Source | Highway Re-alignment | | | | | | | | | | | | |
| Receptor (labelled with ID) | East Access Road | | | | | | | | | | | | |
| RRP-NG Property Boundary | Worst Night-time Interim Operation dBA Contours | | | | | | | | | | | | |
| | <table border="0"> <tr> <td> >=40</td> <td> >=60</td> <td> >=75</td> </tr> <tr> <td> >=45</td> <td> >=65</td> <td> >=80</td> </tr> <tr> <td> >=50</td> <td> >=70</td> <td> >=85</td> </tr> <tr> <td> >=55</td> <td></td> <td></td> </tr> </table> | >=40 | >=60 | >=75 | >=45 | >=65 | >=80 | >=50 | >=70 | >=85 | >=55 | | |
| >=40 | >=60 | >=75 | | | | | | | | | | | |
| >=45 | >=65 | >=80 | | | | | | | | | | | |
| >=50 | >=70 | >=85 | | | | | | | | | | | |
| >=55 | | | | | | | | | | | | | |

NOTES:
 - Aerial Imagery provided by NewGold Scene date is October 2017.
 - Only major facilities are shown connecting infrastructure and supporting facilities are generally shown.

newgold[™] Rainy River Project

RAINY RIVER MINE
Sound Contours for Worst-Case Evening and Night-time Early Operations

Datum: NAD83
 Projection: UTM Zone 15N



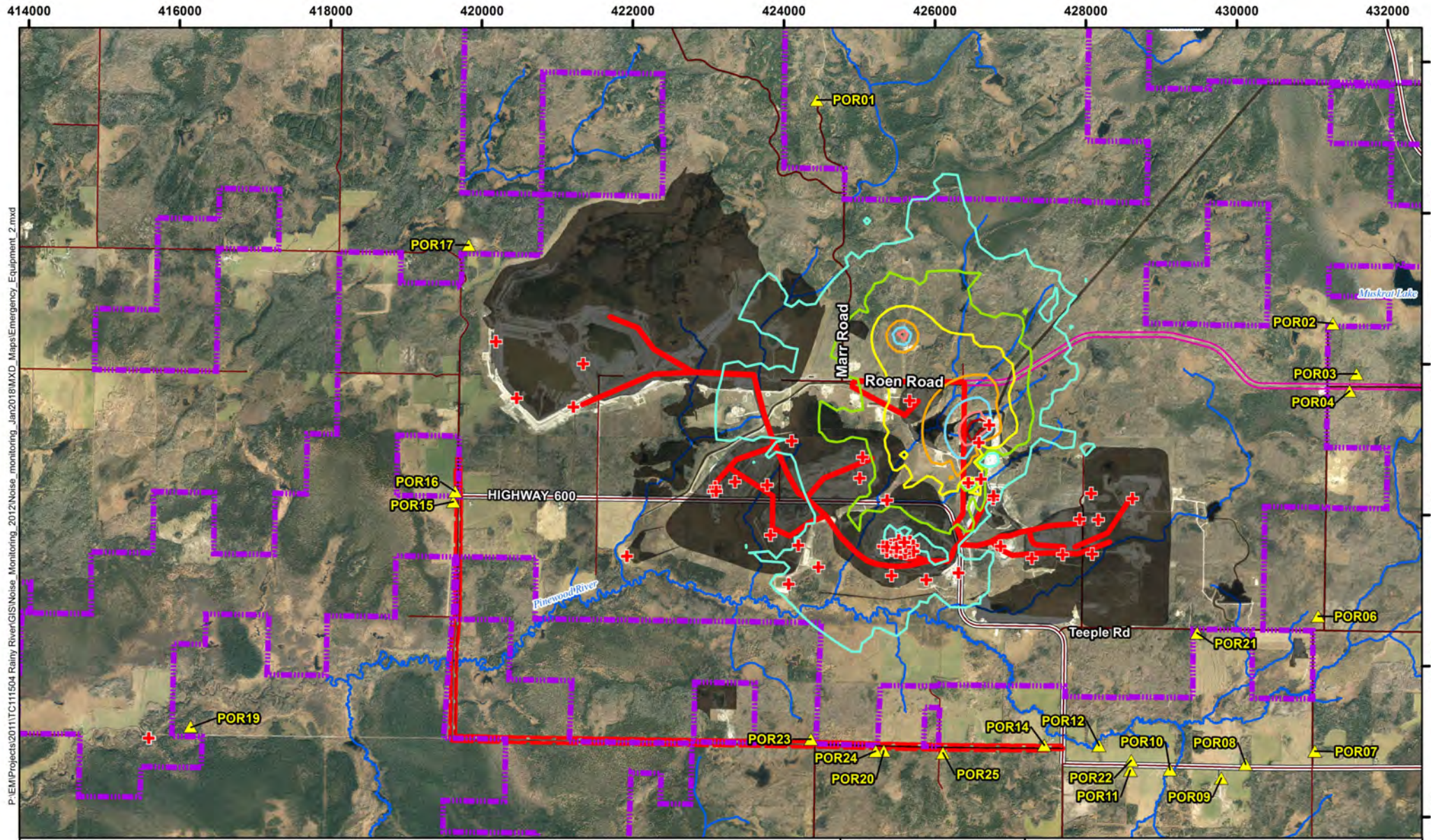
PROJECT N^o: TC111504

FIGURE: 4



SCALE: 1:70,000

DATE: January 2018



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LEGEND

- + Point Source
- Line Source
- ▲ Receptor (labelled with ID)
- RRP-NG Property Boundary

Proposed Site Features

- Approximate Principal RRP Facilities
- Highway Re-alignment
- East Access Road

Emergency Equipment Testing Operation dBA Contours

- >=55
- >=60
- >=65
- >=70
- >=75
- >=80
- >=85

NOTES:

- Aerial Imagery provided by NewGold Scene date is October 2017.
- Only major facilities are shown connecting infrastructure and supporting facilities are generally shown.

Datum: NAD83
Projection: UTM Zone 15N



newgold Rainy River Project



RAINY RIVER MINE

**Sound Contours for
Emergency Equipment Testing**

PROJECT N^o: TC111504

FIGURE: 5

SCALE: 1:70,000

DATE: January 2018



APPENDIX A

ACOUSTIC ASSESSMENT REPORT CHECK-LIST

ACOUSTIC ASSESSMENT REPORT CHECK-LIST

Company Name: New Gold Inc.

Company Address: 1111 Victoria Ave. East

Thunder Bay, Ontario, P7C 1B7

Location of Facility: Rainy River Project

Township of Chapple, Ontario

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

Company Contact: New Gold Inc.

Name: _____

Title: _____

Phone Number: _____

Signature: _____

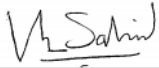
Date: _____

Technical Contact: Amec Foster Wheeler

Name: Mohammed Salim, P.Eng.

Representing: New Gold Inc.

Phone Number: (905) 568 2929 Extn. 4212

Signature: 

Date: October 20, 2017

ACOUSTIC ASSESSMENT REPORT CHECKLIST

		Required Information		
			Submitted	Explanation/Reference
1.0	Introduction (Project Background and Overview)		<input checked="" type="checkbox"/> Yes	Section 1
2.0	Facility Description			
	2.1	Operating hours of facility and significant Noise Sources	<input checked="" type="checkbox"/> Yes	Section 2 & Section 3
	2.2	Site Plan identifying all significant Noise Sources	<input checked="" type="checkbox"/> Yes	Figure 2
3.0	Noise Source Summary			
	3.1	Noise Source Summary Table	<input checked="" type="checkbox"/> Yes	Table 1
	3.2	Source noise emissions specifications	<input checked="" type="checkbox"/> Yes	Section 3
	3.3	Source Power/capacity ratings	<input checked="" type="checkbox"/> Yes	Appendix D
	3.4	Noise control equipment description and acoustical specifications	<input checked="" type="checkbox"/> Yes	Section 4
4.0	Point of Reception Noise Impact Calculations			
	4.1	Point of Reception Noise Impact Table	<input checked="" type="checkbox"/> Yes	Table 2
	4.2	Point(s) of Reception (POR) list and description	<input checked="" type="checkbox"/> Yes	Section 5
	4.3	Land-use Zoning Plan	<input checked="" type="checkbox"/> Yes	Appendix B
	4.4	Scaled Area Location Plan	<input checked="" type="checkbox"/> Yes	Figure 1
	4.5	Procedure used to assess noise impacts at each POR	<input checked="" type="checkbox"/> Yes	Section 7
	4.6	List of parameters/assumptions used in calculations	<input checked="" type="checkbox"/> Yes	Section 7/Appendix F
5.0	Acoustic Assessment Summary			
	5.1	Acoustic Assessment Summary Table	<input checked="" type="checkbox"/> Yes	Table 3
	5.2	Rationale for selecting applicable noise guideline limits	<input checked="" type="checkbox"/> Yes	Section 6
	5.3	Predictable Worst Case Impacts Operating Scenario	<input checked="" type="checkbox"/> Yes	Section 7
6.0	Conclusions			
	6.1	Statement of compliance with the selected noise performance limits	<input checked="" type="checkbox"/> Yes	Section 8
7.0	Appendices (Provide details such as)			
		Listing of Insignificant Noise Sources	<input checked="" type="checkbox"/> Yes	Appendix E
		Manufacture's Noise Specifications	<input type="checkbox"/> Yes	N/A
		Calculations	<input checked="" type="checkbox"/> Yes	Appendix D
		Instrumentation	<input checked="" type="checkbox"/> Yes	Appendix D
		Meteorology during Sound level Measurements	<input checked="" type="checkbox"/> Yes	Appendix D
		Raw Data from Measurements	<input checked="" type="checkbox"/> Yes	Appendix D
		Drawings (Facility/Equipment)	<input checked="" type="checkbox"/> Yes	Appendix C

APPENDIX B

LAND-USE ZONING MAP OF THE SITE AND SURROUNDING AREA

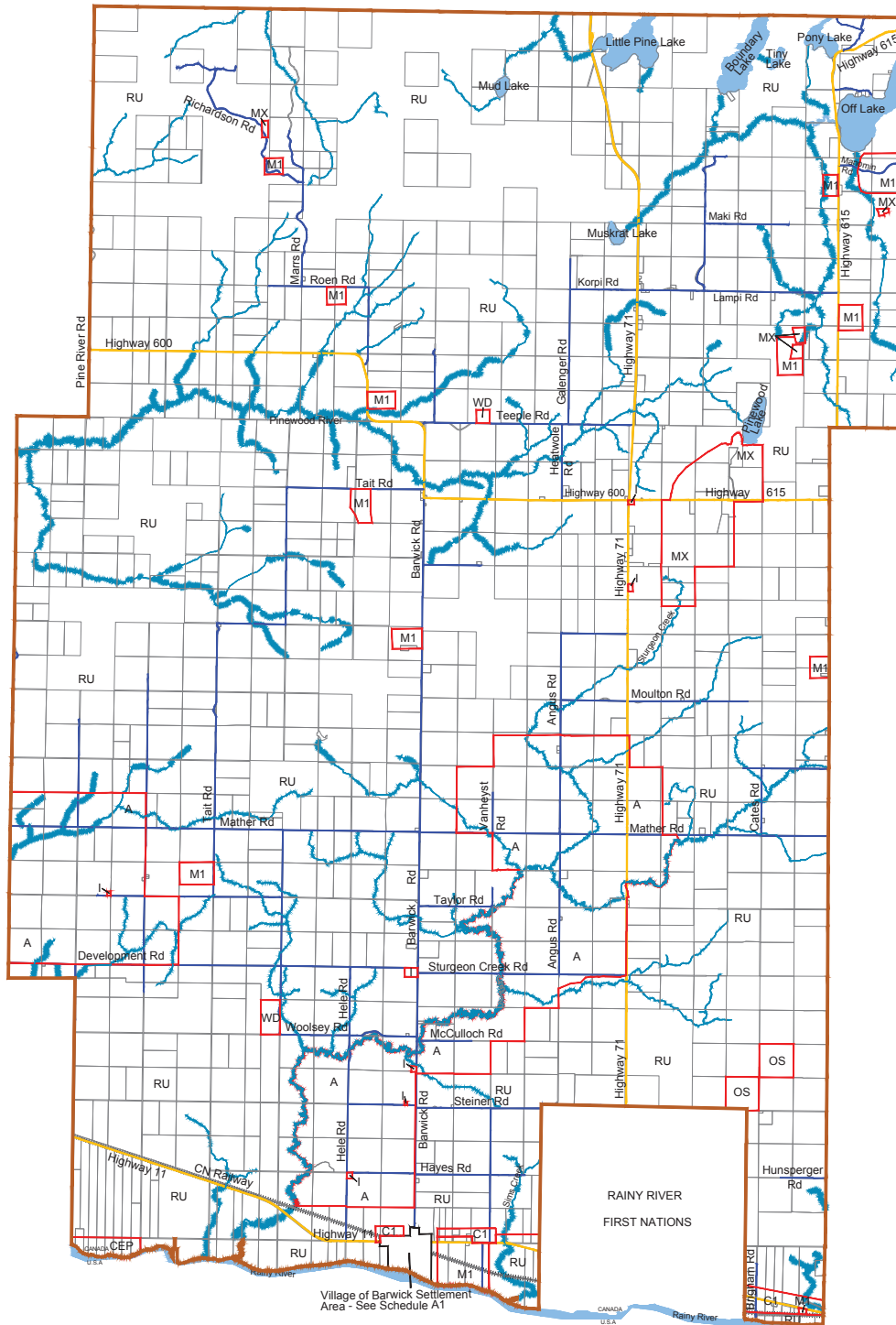
TOWNSHIP OF CHAPPLE ZONING BY-LAW SCHEDULE A

Council Adoption October 8, 2013

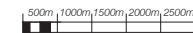
- Village Settlement Area
Zone Boundary
- A - Agricultural Zone
 - RU - Rural Zone
 - C1 - Highway Commercial Zone
 - I - Institutional
 - M1 - Industrial Zone
 - MX - Aggregate Extraction Zone
 - WD - Waste Disposal Zone
 - OS - Open Space Zone
 - CEP - Conservation and Environmental Protection Zone

- Transportation
- Provincial Highway
 - Township Roads
 - CN Railway

Watercourses



FOTENNI PLANNING & URBAN DESIGN



Note: The base information on this plan was prepared from a variety of map sources and was used by permission of the Township of Chapple. It is not a legal plan of survey. For precise location of plan features recourse should be had to the original source data.

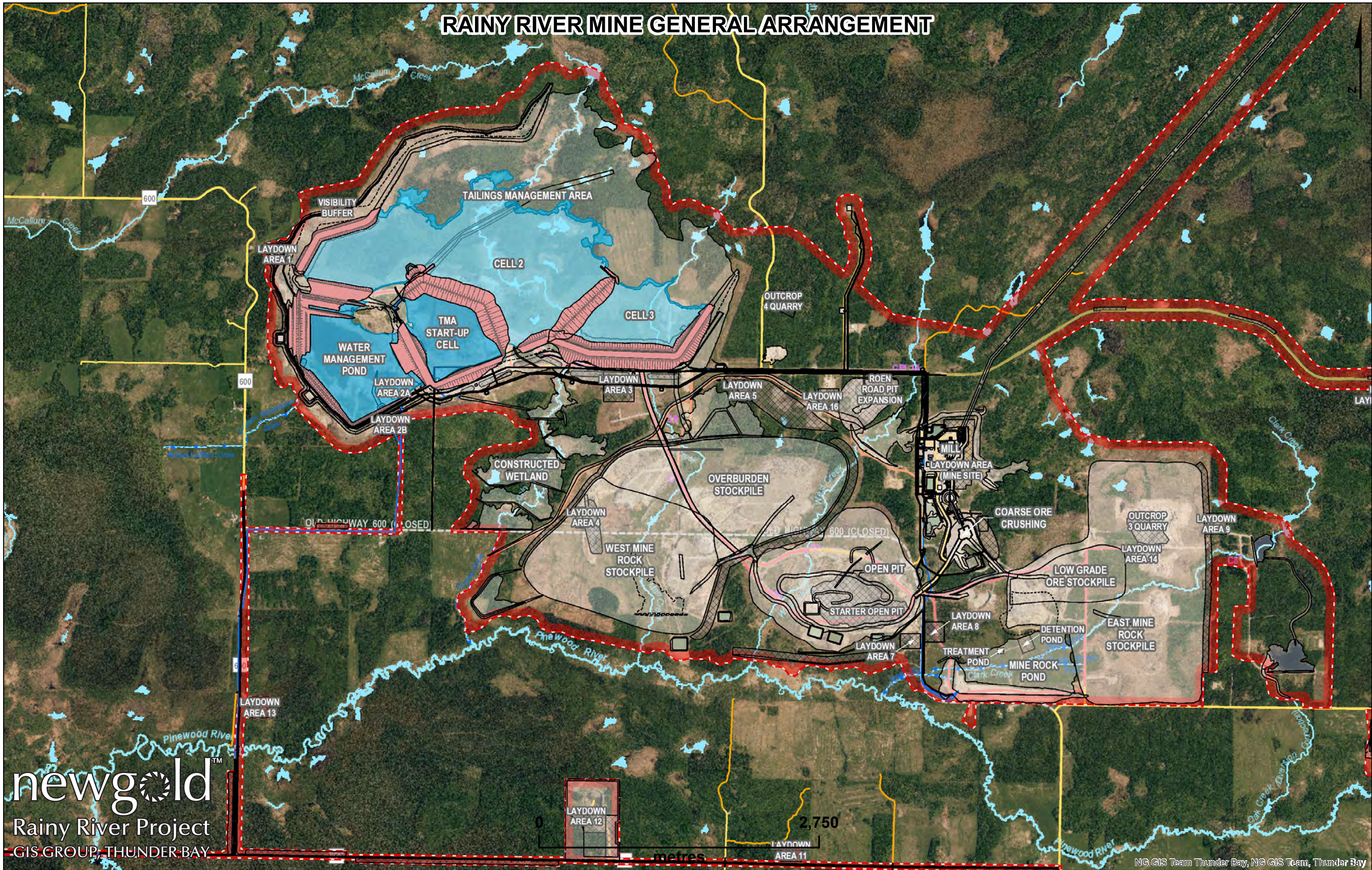
Digital Map Created By:
CGIS Spatial Solutions
52 South Street
Perth, ON, K7H 2G7
TEL: 613-366-4221
www.cgis.com

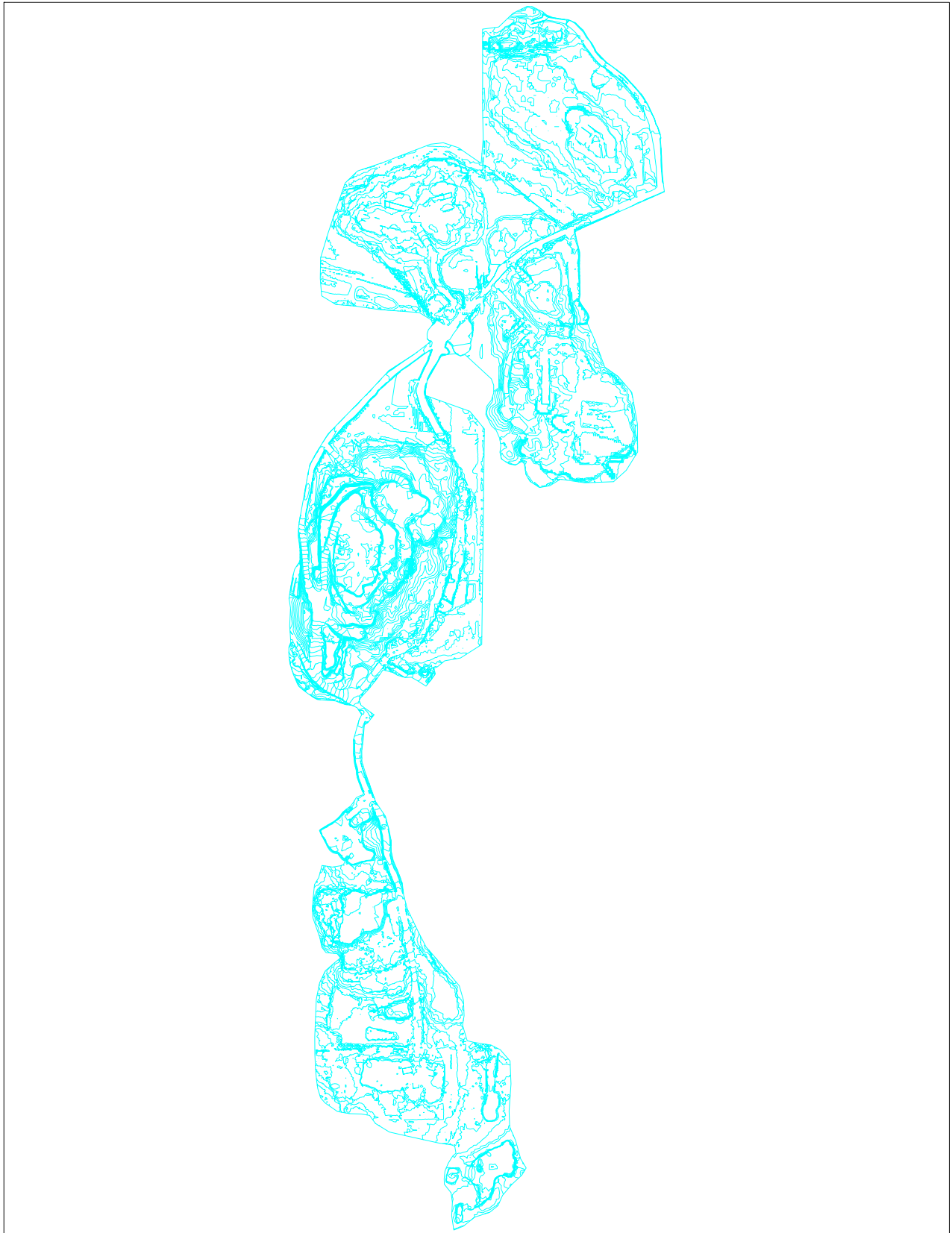


Village of Barwick Settlement Area - See Schedule A1

APPENDIX C
FACILITY DRAWINGS

RAINY RIVER MINE GENERAL ARRANGEMENT





APPENDIX D

SOUND MEASUREMENT DETAILS AND CALCULATIONS

CONVERSION OF SOUND PRESSURE LEVELS TO SOUND POWER LEVELS

Project Name: RRP
 Project Number: TC111504
 Location: Barwick ON



A-WEIGHTING (dB) - Applied to total PWL								
-39.4	-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

1/4 WAVELENGTH CRITERION (m)								
2.722	1.361	0.686	0.343	0.172	0.086	0.043	0.021	0.011

Measurement Reference ^[1,2]	Source Description	Calc Type ^[3] (A, C, or S)	SPL Ref Distance ^[4] (S or C) (m)	Length ^[5] (C only) (m)	Partition Coefficient (S or C) (%)	Net Surface Area ^[5] (m ²)	Spectral Weighting (A or Flat)	Octave Band Sound Pressure Level Data (dB or dBA) ^[6]										Total (dBA)	Octave Band Sound Power Level Data ^[8] (dB or dBA) ^[7]										Total (dBA)
								31.5	63	125	250	500	1000	2000	4000	8000	31.5		63	125	250	500	1000	2000	4000	8000			
								831_Data.001	Komatsu Diesel Excavator PC360LC	S	10.0		50%	628.0	Flat	85.1	87.4		89.0	89.0	85.4	84.0	80.1	71.0	65.2	88	113.1	115.4	
831_Data.002	Truck Komatsu 830 - Pass-by (Empty Truck)	C	16.0	21.0	50%	1055.0	Flat	83.1	87.8	84.6	77.9	75.9	72.1	68.7	63.9	57.2	78	113.3	118.0	114.8	108.1	106.1	102.3	98.9	94.2	87.4	108		
831_Data.003	Truck Komatsu 830 - Pass-by (Loaded Truck)	C	16.0	21.0	50%	1055.0	Flat	90.3	99.4	102.6	89.4	83.9	77.7	72.9	68.6	64.9	89	120.5	129.7	132.9	119.6	114.1	108.0	103.1	98.9	95.2	119		
831_Data.006	Komatsu Wheel Loader WA1200	S	15.5		50%	1508.8	Flat	80.9	89.3	91.9	81.2	79.8	78.5	78.2	73.4	68.9	85	112.7	121.1	123.7	113.0	111.6	110.3	110.0	105.2	100.7	117		
831_Data.007	Komatsu Wheel Dozer KM WD600	S	11.0		50%	759.9	Flat	77.4	84.7	79.8	74.2	71.7	72.3	68.1	61.1	54.7	76	106.2	113.5	108.6	103.0	100.5	101.1	96.9	89.9	83.5	105		
831_Data.008	Motor Grader CAT 16M	S	10.0		50%	628.0	Flat	80.5	84.8	86.4	81.5	80.3	77.6	75.2	71.5	68.2	83	108.5	112.8	114.4	109.5	108.3	105.6	103.1	99.4	96.2	111		
831_Data.009	Motor Grader CAT 14	S	7.3		50%	334.7	Flat	74.2	78.5	79.5	84.1	78.7	76.9	74.5	69.4	59.7	82	99.4	103.7	104.8	109.4	103.9	102.2	99.8	94.6	85.0	108		
831_Data.010	Track Dozer CAT9T	S	10.0		50%	628.0	Flat	71.8	75.0	78.4	79.1	78.1	76.6	75.9	72.2	65.2	82	99.8	103.0	106.4	107.1	106.0	104.6	103.9	100.2	93.2	110		
831_Data.011	Track Dozer CAT10T	S	10.0		50%	628.0	Flat	79.4	82.9	86.9	85.6	85.4	82.4	79.1	70.9	64.4	87	107.4	110.8	114.9	113.6	113.4	110.4	107.1	98.9	92.4	115		
831_Data.012	Track Dozer Komatsu 375	S	10.0		50%	628.0	Flat	75.1	82.4	79.7	79.8	78.3	75.3	75.6	67.2	60.3	81	103.1	110.4	107.7	107.8	106.3	103.3	103.6	95.1	88.3	109		
831_Data.013	Komatsu Diesel Excavator PC5500	S	13.0		50%	1061.3	Flat	83.2	87.9	91.7	86.6	83.4	79.2	75.8	68.8	61.6	85	113.5	118.2	122.0	116.9	113.7	109.4	106.1	99.1	91.8	116		
831_Data.014	Blast Hole Drill 2- Sandvik DR461i	S	10.0		50%	628.0	Flat	80.0	84.6	86.3	86.5	88.5	90.0	85.0	80.6	74.5	93	107.9	112.6	114.3	114.5	116.4	118.0	113.0	108.6	102.5	121		
831_Data.015	Komatsu Diesel Excavator PC3000	S	13.0		50%	1061.3	Flat	84.8	87.7	95.9	90.4	86.8	84.5	78.8	73.3	67.2	89	115.1	118.0	126.2	120.6	117.0	114.8	109.0	103.5	97.4	120		
831_Data.017	Track Dozer Komatsu 475	S	10.0		50%	628.0	Flat	82.5	82.9	86.3	85.1	87.6	81.9	79.6	77.8	72.3	88	110.5	110.9	114.3	113.1	115.6	109.9	107.6	105.7	100.2	116		
831_Data.019	Motor Grader CAT 16H	S	7.0		50%	307.7	Flat	71.1	84.8	72.6	72.4	75.0	77.9	75.1	70.0	64.7	81	96.0	109.6	97.5	97.3	99.9	102.8	100.0	94.9	89.6	106		
831_Data.021	Water Truck (Komatsu HD785 / CR20000K) Pass-by	C	9.5	21.0	50%	626.4	Flat	73.4	78.7	84.5	82.0	79.6	81.9	79.6	72.3	65.7	86	101.4	106.7	112.5	109.9	107.6	109.9	107.6	100.3	93.6	114		
831_Data.022	Diesel Water Pump WP004	S	2.7		50%	45.8	Flat	83.1	91.9	91.7	80.4	84.0	85.4	84.1	76.9	73.1	90	99.7	108.5	108.3	97.1	100.6	102.0	100.7	93.5	89.7	106		
831_Data.023	Blast Hole Drill 3 - Sandvik DP1500i	S	9.0		50%	508.7	Flat	77.7	83.4	82.1	79.4	83.4	83.5	84.1	80.5	83.0	90	104.8	110.4	109.2	106.4	110.5	110.5	111.2	107.6	110.1	117		
831_Data.024	Crusher	S	7.9		50%	391.9	Flat	79.0	78.6	74.5	69.9	65.3	58.8	52.2	46.5	42.9	67	104.9	104.5	100.4	95.9	91.3	84.8	78.1	72.4	68.9	93		
831_Data.025	Crusher - Dumping	S	15.0		50%	1413.0	Flat	77.1	84.3	77.2	75.0	76.0	74.9	72.3	68.2	61.3	79	108.6	115.9	108.7	106.5	107.5	106.4	103.8	99.7	92.8	111		
831_Data.026	Crusher - Filling	S	15.0		50%	1413.0	Flat	71.2	73.1	73.1	71.2	71.2	64.0	64.1	60.6	50.2	72	102.7	104.6	104.6	102.7	102.8	95.5	95.6	92.1	81.7	104		
831_Data.027	Aggregate Pit Primary Crusher (Powerscreen)	S	6.0		50%	226.1	Flat	91.1	97.0	93.7	94.9	93.3	90.3	87.4	82.7	76.0	96	114.6	120.6	117.3	118.4	116.9	113.8	110.9	106.3	99.5	119		
831_Data.028	Aggregate Pit Loader (CAT 980H)	S	11.0		50%	759.9	Flat	89.7	99.4	92.4	81.2	82.0	81.0	76.3	70.7	65.2	86	118.5	128.2	121.2	110.0	110.8	109.8	105.1	99.5	94.0	114		
831_Data.030	Truck Komatsu 400 - Pass-by	C	10.0	21.0	50%	659.4	Flat	74.4	86.8	83.0	82.4	74.9	72.8	68.7	63.9	56.9	79	102.6	114.9	111.2	110.6	103.1	101.0	96.9	92.1	85.1	107		
831_Data.031	Dust Collector	S	4.3		50%	116.1	Flat	81.8	80.8	82.7	87.3	81.5	77.9	74.8	71.5	68.9	84	102.5	101.5	103.4	107.9	102.2	98.6	95.4	92.1	89.6	105		
831_Data.032	RC Drill Sandvik DR580	S	7.6		50%	362.7	Flat	89.6	100.4	93.1	83.5	87.7	88.9	88.1	83.9	80.7	94	115.2	126.0	118.7	109.1	113.3	114.5	113.7	109.5	106.3	119		
831_Data.034	Komatsu Diesel Excavator PC800LC	S	20.0		50%	2512.0	Flat	74.6	81.8	81.4	73.2	77.7	73.1	69.8	64.7	58.8	79	108.6	115.8	115.4	107.2	111.7	107.1	103.8	98.7	92.8	113		
831_Data.035	Komatsu Diesel Excavator PC8000	S	15.0		50%	1413.0	Flat	86.2	95.0	90.0	90.6	88.8	83.3	79.9	71.8	63.6	90	117.7	126.5	121.5	122.1	120.3	114.8	111.4	103.3	95.1	121		
831_Data.037	Track Dozer CAT8T	S	7.5		50%	353.3	Flat	74.2	78.2	80.4	79.0	78.8	77.3	73.9	67.6	59.1	82	99.7	103.7	105.8	104.5	104.3	102.8	99.4	93.1	84.6	107		

- Notes:
1. All measurements conducted on September 26-28, 2017, using Larson Davis 831 SLM.
 2. All measurements were consistent with the applicable portions of the MOECC Publication NPC-103.
 3. Calc Type of C, A, or S refer to the source geometry, and represent Cylindrical, Area, or Spherical sources, respectively.
 4. SPL Ref Distance refers to the radial distance from the microphone to the acoustic centre of a spherical source or the symmetrical axis of a cylindrical source.
 5. Net surface area refers to surface area corrected for partition coefficient. Partition coefficient applies only to spherical and cylindrical geometries. Sound power level is estimated using an area correction 10 log A.
 6. Refer to "Spectral Weighting" column for dB or dBA application information.

Measure Raw Data

File Name	1/1 Octave Frequency Range										1/3 Octave Frequency Band																											
	31.5	63	125	250	500	1000	2000	4000	8000		20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
831_Data.001	85.1	87.4	89.0	89.0	85.4	84.0	80.1	71.0	65.2	70.4	70.6	72.8	84.8	79.7	83.7	83.4	86.0	83.2	83.2	88.2	81.6	77.4	81.9	81.1	78.0	80.3	79.3	77.9	77.8	74.8	71.7	68.8	64.9	63.2	62.7	59.5	57.7	57.5
831_Data.002	83.1	87.8	84.6	77.9	75.9	72.1	68.7	63.9	57.2	70.7	68.0	73.4	82.5	84.1	76.4	84.5	82.5	78.3	75.8	74.2	72.7	72.7	72.9	70.4	69.6	69.1	67.0	65.2	65.3	63.2	62.8	61.2	58.4	56.7	54.6	51.8	49.2	45.4
831_Data.003	90.3	99.4	102.6	89.4	83.9	77.7	72.9	68.6	64.9	73.4	75.0	80.9	89.3	94.6	89.6	97.0	98.9	99.9	88.8	85.4	84.9	82.4	81.2	77.8	77.2	74.7	72.5	70.4	69.1	68.1	66.9	65.4	62.8	63.0	63.7	56.9	54.9	49.2
831_Data.004	86.5	96.2	96.9	88.3	85.5	81.3	77.7	74.4	69.9	73.0	75.0	78.9	85.3	85.3	90.7	93.9	92.8	93.6	87.9	86.0	82.5	78.8	80.3	81.4	80.2	77.4	76.6	75.4	73.6	72.8	72.2	71.0	68.9	68.2	68.0	63.6	60.9	55.9
831_Data.005	80.5	88.5	89.4	80.9	80.7	77.5	74.5	69.9	64.9	68.3	71.7	75.7	77.8	83.0	82.9	84.4	88.2	82.2	79.8	76.1	75.8	76.1	77.0	75.5	75.3	73.7	72.6	71.8	70.6	69.7	68.8	66.4	64.8	63.5	62.9	59.3	55.2	49.7
831_Data.006	80.9	89.3	91.9	81.2	79.8	78.5	78.2	73.4	68.9	75.6	72.5	77.1	77.4	81.0	83.4	86.8	91.0	84.7	80.7	74.6	75.5	77.9	75.9	74.0	75.3	74.6	73.2	73.4	76.0	71.8	71.8	69.1	68.7	67.9	66.7	63.6	59.3	54.0
831_Data.007	77.4	84.7	79.8	74.2	71.7	72.3	68.1	61.1	54.7	62.8	64.4	67.9	76.9	80.3	80.3	79.2	77.5	75.0	71.7	69.4	70.2	68.5	67.0	67.1	66.5	65.9	65.7	69.7	66.1	61.4	60.0	58.3	55.7	54.0	52.0	49.6	46.5	43.6
831_Data.008	80.5	84.8	86.4	81.5	80.3	77.6	75.2	71.5	68.2	65.1	67.7	70.2	79.7	75.7	82.0	80.8	84.4	80.7	79.6	77.2	74.0	77.9	77.3	74.4	73.4	73.5	72.6	72.1	71.0	70.5	69.7	67.9	66.1	65.4	65.6	62.7	60.5	57.9
831_Data.009	74.2	78.5	79.5	84.1	78.7	76.9	74.5	69.4	59.7	65.7	64.9	71.0	70.5	76.1	70.3	72.4	73.8	73.9	76.0	82.9	77.2	75.0	73.6	75.1	72.8	72.5	72.1	72.1	71.3	69.0	68.3	67.5	63.1	59.7	57.0	54.8	50.8	49.1
831_Data.010	71.8	75.0	78.4	79.1	78.1	76.6	75.9	72.2	65.2	64.3	66.5	65.8	68.7	69.8	69.4	71.8	73.8	75.0	71.4	71.6	75.3	75.5	72.2	74.0	73.6	71.7	71.7	72.0	73.3	69.7	69.8	69.3	67.1	65.0	62.3	59.9	57.9	56.6
831_Data.011	79.4	82.9	86.9	85.6	85.4	82.4	79.1	70.9	64.4	70.3	71.3	74.4	76.8	77.2	76.9	79.7	82.3	82.5	81.8	79.7	81.5	81.3	80.4	82.3	77.4	76.7	75.0	80.1	76.9	71.2	69.7	67.9	65.9	63.6	61.3	59.5	57.0	60.2
831_Data.012	75.1	82.4	79.7	79.8	78.3	75.3	75.6	67.2	60.3	69.6	69.4	70.7	71.4	72.5	76.6	80.6	75.0	75.2	74.6	74.4	75.7	75.0	72.5	75.4	72.0	71.7	70.6	69.3	70.2	73.2	66.5	64.3	61.7	60.0	57.2	55.4	52.7	49.4
831_Data.013	83.2	87.9	91.7	86.6	83.4	79.2	75.8	68.8	61.6	74.8	75.6	80.4	78.4	80.1	79.1	85.9	91.9	79.9	79.7	85.9	78.8	76.5	81.2	78.0	74.6	73.5	72.2	76.8	72.0	69.5	68.5	65.9	63.3	61.3	58.9	56.8	52.5	48.2
831_Data.014	80.0	84.6	86.3	86.5	88.5	90.0	85.0	80.6	74.5	69.3	70.0	75.6	77.5	78.4	76.5	82.0	84.9	78.1	79.7	82.6	81.8	80.8	83.5	83.5	84.1	85.9	86.1	83.5	80.8	80.0	79.7	77.0	75.5	74.3	72.0	68.4	66.9	66.3
831_Data.015	84.8	87.7	95.9	90.4	86.8	84.5	78.8	73.3	67.2	73.3	75.5	82.2	80.1	78.8	77.7	86.0	93.3	82.0	92.8	85.7	84.1	84.9	81.8	82.5	81.4	81.2	79.6	77.9	75.8	73.5	71.9	69.8	67.3	68.1	62.2	59.5	64.1	52.8
831_Data.016	84.6	90.3	95.7	87.9	84.9	81.9	76.4	70.6	62.9	73.2	74.7	81.6	80.6	77.3	79.0	89.3	95.8	81.7	85.2	84.3	80.3	83.9	80.7	79.9	79.7	77.7	77.2	76.4	73.0	71.1	69.9	67.0	65.7	63.8	60.0	58.4	53.0	46.9
831_Data.017	82.5	82.9	86.3	85.1	87.6	81.9	79.6	77.8	72.3	71.1	73.9	80.1	76.8	75.5	75.8	80.3	81.4	80.5	82.5	78.8	81.3	80.7	79.9	85.5	80.5	77.5	77.1	76.7	76.2	73.6	74.4	73.3	71.5	73.7	69.9	65.5	65.2	61.6
831_Data.019	71.1	84.8	72.6	72.4	75.0	77.9	75.1	70.0	64.7	61.8	65.0	67.6	65.4	78.8	83.2	68.7	66.5	69.2	66.9	65.5	68.5	68.5	67.6	71.3	71.1	73.3	73.6	72.7	71.2	71.1	68.3	67.2	64.9	62.4	59.9	58.6	60.8	56.7
831_Data.021	73.4	78.7	84.5	82.0	79.6	81.9	79.6	72.3	65.7	66.5	65.8	70.2	68.5	69.3	70.2	77.2	82.0	80.1	76.0	74.5	79.9	74.9	73.5	74.2	76.3	77.3	77.1	77.2	78.0	73.6	69.2	68.4	68.5	64.9	63.5	60.1	56.5	52.0
831_Data.022	83.1	91.9	91.7	80.4	84.0	85.4	84.1	76.9	73.1	59.0	59.0	64.4	80.0	91.9	73.4	82.3	92.6	74.8	69.2	69.3	77.6	76.6	71.9	81.7	79.6	79.5	81.3	80.9	79.8	78.7	79.5	74.3	70.3	69.8	68.5	66.1	66.3	
831_Data.023	77.7	83.4	82.1	79.4	83.4	83.5	84.1	80.5	83.0	67.8	67.9	70.9	76.0	79.2	77.0	79.6	79.7	75.5	75.5	75.5	69.6	76.6	78.0	76.3	80.8	77.4	79.6	78.6	79.3	79.2	79.5	75.4	75.7	76.2	79.9	77.7	76.8	74.0
831_Data.024	79.0	78.6	74.5	69.9	65.3	58.8	52.2	46.5	42.9	71.7	73.5	75.2	73.4	75.5	74.8	67.4	71.0	70.2	66.7	68.3	62.4	62.2	61.8	59.0	60.4	56.0	53.3	51.4	49.0	47.3	44.9	43.5	41.3	39.4	38.3	38.0	38.3	39.0
831_Data.025	77.1	84.3	77.2	75.0	76.0	74.9	72.3	68.2	61.3	68.7	70.5	72.4	73.1	76.3	81.7	80.0	73.0	73.0	71.2	71.2	67.8	70.4	72.5	70.7	70.6	70.9	70.0	69.7	68.6	67.5	66.4	65.1	63.1	61.3	59.0	56.0	52.4	48.4
831_Data.026	71.2	73.1	73.1	71.2	71.2	64.0	64.1	60.6	50.2	65.3	66.0	68.4	64.3	67.1	69.4	68.7	68.3	69.0	67.8	66.4	62.4	68.5	68.0	65.2	65.4	62.2	57.2	55.9	60.0	60.3	57.4	56.9	57.7	48.4	46.2	45.6	44.4	41.6
831_Data.027	91.1	97.0	93.7	94.9	93.3	90.3	87.4	82.7	76.0	75.9	78.6	81.8	90.2	88.7	94.9	90.9	87.9	87.8	90.6	91.9	88.6	89.0	89.5	87.7	88.7	86.8	85.2	84.2	83.1	83.2	81.3	79.9	77.5	75.1	73.1	70.9	68.3	64.4
831_Data.028	89.7	99.4	92.4	81.2	82.0	81.0	76.3	70.7	65.2	62.8	67.3	72.2	89.7	92.9	96.9	92.7	92.3	80.8	78.6	76.8	76.2	76.4	78.1	77.1	76.6	76.2	75.0	77.1	72.6	71.3	69.4	67.1	65.5	64.7	62.0	59.8	58.9	60.6
831_Data.030	74.4	86.8	83.0	82.4	74.9	72.8	68.7	63.9	56.9	59.7	67.4	65.5	73.1	70.9	82.9	84.1	80.4	73.6	78.3	81.9	79.2	70.7	71.4	70.7	68.1	69.3	68.3	66.0	64.9	64.1	62.8	61.2	58.5	56.1	53.7	52.4	49.4	47.7
831_Data.031	81.8	80.8	82.7	87.3	81.5	77.9	74.8	71.5	68.9	80.6	77.9	76.8	77.0	76.3	76.0	75.7	74.0	78.2	79.8	70.9	86.6	77.8	73.3	79.0	76.1	74.7	70.6	72.9	70.0	69.5	70.0	67.4	66.3	66.4	64.1	62.3	65.5	56.7
831_Data.032	89.6	100.4	93.1	83.5	87.7	88.9	88.1	83.9	80.7	70.0	73.1	89.2	76.7	81.0	100.2	86.1	90.0	88.5	86.8	78.1	79.8	78.3	82.5	84.3	81.9	84.9	84.1	83.3	85.0	83.5	80.7	81.0	79.0	76.3	74.5	78.2	73.9	72.6
831_Data.033	74.7	81.3	82.8	73.1	69.0	70.1	69.8	62.9	52.6	70.9	68.1	70.9	70.1	72.1	76.7	78.3	82.7	73.1	70.0	68.1	69.1	68.1	65.3	63.1	64.0	64.2	66.5	64.6	68.4	61.4	63.8	61.7	54.2	52.7	51.4	45.1	40.5	39.6
831_Data.034	74.6	81.8	81.4	73.2	77.7	73.1	69.8	64.7	58.8	69.1	66.8	72.4	68.9	74.3	78.1	77.8	79.6	75.7	73.1	69.6	68.9	65.7	72.7	74.6	71.4	67.9	69.6	66.9	67.0	63.7	64.0	61.7	59.3	57.8	56.3	53.4	50.4	46.7
831_Data.035	86.2	95.0	90.0	90.6	88.8	83.3	79.9	71.8	63.6	74.9	78.6	80.2	83.4	85.1	86.3	93.9	83.0	86.9	84.6	85.8	84.9	86.8	86.1	82.6	82.6	80.0	78.2	77.0	76.7	75.6	71.8	68.8	66.5	64.6	61.4	58.3	53.0	47.8
831_Data.036	69.9	74.8	75.7	72.5	73.4	72.2	70.0	63.9	55.6	61.5	61.6	64.6	67.6	67.8	68.7	72.1	73.3	70.9	67.4	66.0	67.7	68.9	67.6	69.0	68.8	68.7	66.9	66.7	67.4	64.5	62.6	60.8	59.2	56.2	53.4	49.8	47.1	46.2
83																																						

Sound Level Measurement Instrumentation

Equipment sound level measurements at the RRP site were conducted by Amec Foster Wheeler on September 27 through 29, 2017. A Larson Davis Sound Track 831 Type I sound level meter equipped with a windscreen was used for the measurement. The Model 831 uses a Larson Davis Model PRML831 preamplifier and a PCB Electronics Model 377B02 precision microphone, which have been factory calibrated with the SLM unit. The SLM meets IEC 61672-1 Type 1 requirements. The sound level meter was field calibrated with a Larson-Davis Model CA200 precision acoustic calibrator before and after the measurements.

All measurements were conducted in accordance with MOECC NPC-103 measurement protocols. The sound level meter was programmed to record 1-second L_{eq} , L_{min} and L_{max} .

Vehicle Trips and Speed

Description	Route ID	Vehicle Type	Number of Trips/hr	Speed (km/h)
Motor Grader Route Stockpile	MGR_SP	CAT16M	1	10
Motor Grader Route NPAG	MGR_NPAG	CAT16M	1	10
Motor Grader Route OB	MGR_OB	CAT16M	1	10
Motor Grader Route Open Pit to Mill	MGR_OPMill	CAT16M	1	10
Motor Grader Route PAG	MGR_PAG	CAT16M	1	10
Truck Route-NPAG	TR_NPAG	Komatsu 830E	28	70
Truck Route-Overburden	TR_OB	Komatsu 830E	26	70
Truck Route Open Pit to Mill	TR_OPMill	Komatsu 830E	14	70
Truck Route PAG	TR_PAG	Komatsu 830E	34	70
Truck Route Stockpile	TR_SP	Komatsu 830E	12	70
Water Truck Route NPAG	WTR_NPAG	Komatsu CR20000	2	30
Water Truck Route OB	WTR_OB	Komatsu CR20000	2	30
Water Truck Route Open Pit to Mill	WTR_OPMill	Komatsu CR20000	2	30
Water Truck Route PAG	WTR_PAG	Komatsu CR20000	2	30
Water Truck Route Stockpile	WTR_SP	Komatsu CR20000	2	30
LD4 Aggregate Pit Truck Route	LD4_TR	CAT777/Komatsu 400/Equivalent	32	70
OC3 Aggregate Pit Truck Route	OC3_TR	CAT777/Komatsu 400/Equivalent	6	70
EO Aggregate Pit Truck Route	EO_TR	CAT777/Komatsu 400/Equivalent	12	70
Roen Aggregate Pit Truck Route	Roen_TR	CAT777/Komatsu 400/Equivalent	6	70

APPENDIX E
INSIGNIFICANT SOUND SOURCES

Summary of Insignificant Noise Sources

Project: Norbord Inc.
Location: Barwick, ON



Source ID	Source Description	Reason/Rational
DC3	Furnace Dust Collector	Small unit - no significant noise source
DC4	Lime Bin Dust Collector	Small unit - no significant noise source
DC5	Flocculant Handling Cartridge Filter	Small unit - no significant noise source
DC6	Copper Sulphate Loading & Mixing	Small unit - no significant noise source
DC7	Sodium Metabisulphate Loading	Small unit - no significant noise source
EF2	Cyanide Tank Exhaust	Small unit - no significant noise source
EF3	Dilute Acid Tank	Small unit - no significant noise source
VENT3	Hydrochloric Acid Tank	Not a noise source
LEACH	Leach Tanks	Not a noise source
HCND1	CN Destruction Tank	Not a noise source
HCND2	CN Destruction Tank	Not a noise source
Various	Space Heating in Buildings	Not noise sources

APPENDIX F

KEY PARAMETERS INCLUDED IN THE MODEL AND SAMPLE CALCULATIONS

Key Parameters Included in the Noise Model

Project: RRP
Location: Township of Chapple ON



Parameter	Value	Rationale
Ground Absorption	0.7	Accounts mostly soft surface between facility and receptors of interest.
Temperature	10°C	Ontario standard conditions
Relative Humidity	70%	Ontario standard conditions
Max. Order of Reflection	1	To account reflections from buildings and structures.
Reflection Coefficient	N/A	Accounts for absorption/attenuation from building surfaces

Sample Calculations

Receiver

Name: House 14 - South
 ID: POR14
 X: 427450.26
 Y: 5406952.27
 Z: 362.87

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC3000", ID: "E4"

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)
5052	425474.25	5409553.14	273.00	0	DEN	A	124.7	0.0	0.0	0.0	0.0	81.3	6.2	0.7	0.5	0.0	6.7	0.0	0.0	29.3

Point Source, ISO 9613, Name: "Track Dozer 01 (Pit - Komatsu D475)", ID: "TD01"

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)
5053	425616.05	5409573.45	272.00	0	DEN	A	121.4	0.0	0.0	0.0	0.0	81.1	8.2	0.3	0.8	0.0	9.4	0.0	0.0	21.6

Point Source, ISO 9613, Name: "Track Dozer 03 (Pit -CAT D10)", ID: "TD03"

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)
5055	425493.52	5409566.02	272.00	0	DEN	A	121.4	0.0	0.0	0.0	0.0	81.3	8.3	0.3	0.8	0.0	8.1	0.0	0.0	22.6

Point Source, ISO 9613, Name: "Track Dozer 02 (Pit -CAT D10)", ID: "TD02"

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)
5057	425365.79	5409581.00	272.00	0	DEN	A	121.4	0.0	0.0	0.0	0.0	81.5	8.4	0.3	0.9	0.0	6.7	0.0	0.0	23.6

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC8000", ID: "E3"

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)
5059	425503.23	5409575.74	274.00	0	DEN	A	121.1	0.0	0.0	0.0	0.0	81.3	6.7	-0.9	0.7	0.0	6.8	0.0	0.0	26.5

Point Source, ISO 9613, Name: "Blast Hole Drill 2- Sandvik DR461i", ID: "BD2"

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)
5060	425462.14	5409605.87	272.00	0	DEN	A	121.0	0.0	0.0	0.0	0.0	81.4	10.6	-0.3	0.9	0.0	6.4	0.0	0.0	21.9

Point Source, ISO 9613, Name: "Blast Hole Drill 1- Sandvik DR461i", ID: "BD1"

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)
5064	425446.18	5409606.15	272.00	0	DEN	A	121.0	0.0	0.0	0.0	0.0	81.4	10.6	-0.3	0.9	0.0	6.4	0.0	0.0	21.9

Point Source, ISO 9613, Name: "East Outcrop Graval Pit Mobile Primary Crusher (PowerScreen)", ID: "EO_PS"

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)
5065	426865.70	5409576.31	374.00	0	DEN	A	119.1	0.0	0.0	0.0	0.0	79.6	7.1	0.3	0.9	0.0	4.7	0.0	0.0	26.4

Point Source, ISO 9613, Name: "RC Drill Sandvik DR580", ID: "RD2"

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)
5068	425679.85	5409508.19	271.50	0	DEN	A	119.4	0.0	0.0	0.0	0.0	80.9	10.7	-0.6	0.1	0.0	15.8	0.0	0.0	12.5

Point Source, ISO 9613, Name: "RC Drill Sandvik DR580", ID: "RD1"

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)
5071	425690.73	5409535.38	271.50	0	DEN	A	119.4	0.0	0.0	0.0	0.0	80.9	10.8	-0.6	0.1	0.0	13.2	0.0	0.0	15.1

Point Source, ISO 9613, Name: "East Outcrop Aggregate Pit Excavator PC360LC", ID: "EO_E"

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)
5073	426870.62	5409584.69	374.00	0	DEN	A	116.4	0.0	0.0	0.0	0.0	79.6	6.7	0.8	0.9	0.0	4.2	0.0	0.0	24.3

Sample Calculations

Point Source, ISO 9613, Name: "Track Dozer 10 (Ore -CAT D8)", ID: "TD10"																				
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)
5075	427286.03	5409422.56	390.28	0	DEN	A	115.2	0.0	0.0	0.0	0.0	78.9	6.6	0.3	1.1	0.0	0.0	0.0	0.0	28.3

Point Source, ISO 9613, Name: "Track Dozer 09 (Ore -CAT D9)", ID: "TD09"																				
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)
5076	427694.14	5409472.79	374.00	0	DEN	A	115.2	0.0	0.0	0.0	0.0	79.1	6.7	0.3	1.1	0.0	0.0	0.0	0.0	28.0

Point Source, ISO 9613, Name: "Track Dozer 06 (PAG - Komatsu D375)", ID: "TD06"																				
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)
5078	428085.83	5409480.41	374.67	0	DEN	A	115.2	0.0	0.0	0.0	0.0	79.3	6.9	0.3	1.1	0.0	0.0	0.0	0.0	27.6

Point Source, ISO 9613, Name: "Blast Hole Drill 4 - Sandvik DP1500i", ID: "BD4"																				
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)
5079	425442.74	5409534.81	271.50	0	DEN	A	117.0	0.0	0.0	0.0	0.0	81.3	13.1	0.7	0.7	0.0	10.6	0.0	0.0	10.5

Point Source, ISO 9613, Name: "Blast Hole Drill 3 - Sandvik DP1500i", ID: "BD3"																				
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)
5080	425428.58	5409534.81	271.50	0	DEN	A	117.0	0.0	0.0	0.0	0.0	81.3	13.2	0.7	0.7	0.0	10.5	0.0	0.0	10.6

Point Source, ISO 9613, Name: "Track Dozer 07 (PAG - Komatsu D475)", ID: "TD07D"																				
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)
5083	427921.22	5409944.86	373.19	0	D	A	121.4	0.0	0.0	0.0	0.0	80.6	7.8	0.3	0.9	0.0	4.1	0.0	0.0	27.6
5083	427921.22	5409944.86	373.19	0	N	A	121.4	0.0	-188.0	0.0	0.0	80.6	7.8	0.3	0.9	0.0	4.1	0.0	0.0	-160.4
5083	427921.22	5409944.86	373.19	0	E	A	121.4	0.0	-188.0	0.0	0.0	80.6	7.8	0.3	0.9	0.0	4.1	0.0	0.0	-160.4

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC360LC", ID: "E6"																				
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)
5084	425516.35	5409558.98	272.00	0	DEN	A	116.4	0.0	0.0	0.0	0.0	81.2	7.6	1.0	0.7	0.0	7.3	0.0	0.0	18.6

Point Source, ISO 9613, Name: "Komatsu Wheel Loader WA900", ID: "WL2"																				
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)
5087	425409.83	5409564.52	272.00	0	DEN	A	116.5	0.0	0.0	0.0	0.0	81.4	7.5	1.4	0.3	0.0	5.1	0.0	0.0	20.9

Point Source, ISO 9613, Name: "Komatsu Wheel Loader WA1200", ID: "WL1"																				
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)
5089	425377.81	5409561.82	273.00	0	DEN	A	116.5	0.0	0.0	0.0	0.0	81.5	7.5	0.7	0.3	0.0	5.4	0.0	0.0	21.2

Point Source, ISO 9613, Name: "East Outcrop Graval Pit Mobile Crushing Plant Loader (CAT 966H)", ID: "EO_FEL"																				
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)
5090	426882.01	5409568.78	375.35	0	DEN	A	114.3	0.0	0.0	0.0	0.0	79.6	5.6	-1.3	0.5	0.0	6.7	0.0	0.0	23.2

Point Source, ISO 9613, Name: "Track Dozer 05 (PAG - Komatsu D375)", ID: "TD05"																				
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)
5092	428166.79	5409934.89	379.45	0	DEN	A	115.2	0.0	0.0	0.0	0.0	80.7	7.7	0.5	0.9	0.0	0.0	0.0	0.0	25.3

Point Source, ISO 9613, Name: "Track Dozer 08 (PAG - Komatsu D375)", ID: "TD08D"																				
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)
5097	428071.74	5410284.02	382.04	0	D	A	121.4	0.0	0.0	0.0	0.0	81.6	8.5	0.3	0.9	0.0	4.1	0.0	0.0	26.0
5097	428071.74	5410284.02	382.04	0	N	A	121.4	0.0	-188.0	0.0	0.0	81.6	8.5	0.3	0.9	0.0	4.1	0.0	0.0	-162.0
5097	428071.74	5410284.02	382.04	0	E	A	121.4	0.0	-188.0	0.0	0.0	81.6	8.5	0.3	0.9	0.0	4.1	0.0	0.0	-162.0

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC5500", ID: "E2"																				
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)
5099	425547.03	5409599.19	273.00	0	DEN	A	115.7	0.0	0.0	0.0	0.0	81.3	6.0	0.5	0.6	0.0	4.0	0.0	0.0	23.3

Sample Calculations

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC5500", ID: "E1"																				
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)
5100	425413.33	5409602.18	273.00	0	DEN	A	115.7	0.0	0.0	0.0	0.0	81.5	6.1	0.5	0.6	0.0	4.4	0.0	0.0	22.6

Point Source, ISO 9613, Name: "Track Dozer 04 (Pit -CAT D10)", ID: "TD04"																				
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)
5102	425597.37	5409636.80	272.00	0	DEN	A	115.2	0.0	0.0	0.0	0.0	81.3	8.1	0.6	0.8	0.0	5.0	0.0	0.0	19.5

Point Source, ISO 9613, Name: "Outcrop 3 Graval Pit Mobile Crushing Plant Loader (CAT 966H)", ID: "Outcrop3_FEL"																				
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)
5103	428590.07	5410226.58	374.00	0	DEN	A	114.3	0.0	0.0	0.0	0.0	81.8	6.5	-1.5	0.2	0.0	3.9	0.0	0.0	23.4

Point Source, ISO 9613, Name: "Track Dozer 12 (NPAG/OB - Komatsu D375)", ID: "TD12D"																				
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)
5108	425044.71	5410766.17	368.00	0	D	A	121.4	0.0	0.0	0.0	0.0	84.1	10.4	0.6	0.9	0.0	3.9	0.0	0.0	21.6
5108	425044.71	5410766.17	368.00	0	N	A	121.4	0.0	-188.0	0.0	0.0	84.1	10.4	0.6	0.9	0.0	3.9	0.0	0.0	-166.4
5108	425044.71	5410766.17	368.00	0	E	A	121.4	0.0	-188.0	0.0	0.0	84.1	10.4	0.6	0.9	0.0	3.9	0.0	0.0	-166.4

Point Source, ISO 9613, Name: "Outcrop 3 Graval Pit Mobile Primary Crusher (PowerScreen)", ID: "Outcrop3_PS"																				
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)
5110	428612.73	5410209.23	374.00	0	D	A	119.1	0.0	0.0	0.0	0.0	81.8	8.4	0.5	0.8	0.0	3.7	0.0	0.0	23.8
5110	428612.73	5410209.23	374.00	0	N	A	119.1	0.0	-188.0	0.0	0.0	81.8	8.4	0.5	0.8	0.0	3.7	0.0	0.0	-164.2
5110	428612.73	5410209.23	374.00	0	E	A	119.1	0.0	-188.0	0.0	0.0	81.8	8.4	0.5	0.8	0.0	3.7	0.0	0.0	-164.2

Point Source, ISO 9613, Name: "Track Dozer 14 (NPAG/OB -CAT D9)", ID: "TD14"																				
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)
5114	424194.32	5409598.40	352.00	0	DEN	A	115.2	0.0	0.0	0.0	0.0	83.5	9.6	0.9	0.8	0.0	3.6	0.0	0.0	16.9

Point Source, ISO 9613, Name: "Track Dozer 15 (NPAG/OB -CAT D9)", ID: "TD15"																				
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)
5116	425005.74	5410487.02	360.00	0	DEN	A	115.2	0.0	0.0	0.0	0.0	83.7	9.8	0.9	0.8	0.0	3.5	0.0	0.0	16.5

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC800LC", ID: "E5"																				
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)
5118	425594.55	5409554.60	273.00	0	DEN	A	112.6	0.0	0.0	0.0	0.0	81.1	7.7	-0.8	0.5	0.0	11.0	0.0	0.0	13.2

Point Source, ISO 9613, Name: "Track Dozer 13 (NPAG/OB -CAT D9)", ID: "TD13"																				
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)
5122	423823.44	5409732.75	358.36	0	DEN	A	115.2	0.0	0.0	0.0	0.0	84.2	10.2	1.0	0.8	0.0	3.5	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Track Dozer 11 (NPAG/OB - Komatsu D475)", ID: "TD11D"																				
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)
5126	423353.77	5410438.11	364.00	0	D	A	121.4	0.0	0.0	0.0	0.0	85.6	11.8	0.8	0.8	0.0	3.7	0.0	0.0	18.7
5126	423353.77	5410438.11	364.00	0	N	A	121.4	0.0	-188.0	0.0	0.0	85.6	11.8	0.8	0.8	0.0	3.7	0.0	0.0	-169.3
5126	423353.77	5410438.11	364.00	0	E	A	121.4	0.0	-188.0	0.0	0.0	85.6	11.8	0.8	0.8	0.0	3.7	0.0	0.0	-169.3

Point Source, ISO 9613, Name: "Track Dozer 16 (NPAG/OB -CAT D9)", ID: "TD16"																				
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)
5129	423780.87	5410394.72	352.16	0	DEN	A	115.2	0.0	0.0	0.0	0.0	85.0	10.9	1.1	0.8	0.0	3.4	0.0	0.0	14.1

Point Source, ISO 9613, Name: "Track Dozer 07 (PAG - Komatsu D475)", ID: "TD07N"																				
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)
5131	427921.22	5409944.86	373.19	0	D	A	115.2	0.0	-188.0	0.0	0.0	80.6	7.6	0.5	0.9	0.0	3.9	0.0	0.0	-166.3
5131	427921.22	5409944.86	373.19	0	N	A	115.2	0.0	0.0	0.0	0.0	80.6	7.6	0.5	0.9	0.0	3.9	0.0	0.0	21.7
5131	427921.22	5409944.86	373.19	0	E	A	115.2	0.0	-188.0	0.0	0.0	80.6	7.6	0.5	0.9	0.0	3.9	0.0	0.0	-166.3

Sample Calculations

Point Source, ISO 9613, Name: "Roen Graval Pit Mobile Crushing Plant Loader (CAT 966H)", ID: "Roen_FEL"																				
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)
5136	425842.83	5411524.72	372.00	0	DEN	A	114.3	0.0	0.0	0.0	0.0	84.7	7.6	-1.9	0.1	0.0	3.9	0.0	0.0	19.8

Point Source, ISO 9613, Name: "Transformer 2", ID: "T2"																				
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)
5142	426722.32	5411191.07	376.55	0	DEN	A	113.3	0.0	0.0	0.0	0.0	83.7	7.8	1.1	0.6	0.0	3.2	0.0	0.0	16.9

Point Source, ISO 9613, Name: "Transformer 1", ID: "T1"																				
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)
5145	426722.50	5411203.18	375.99	0	DEN	A	113.3	0.0	0.0	0.0	0.0	83.7	7.8	1.1	0.6	0.0	3.2	0.0	0.0	16.8

Point Source, ISO 9613, Name: "Crusher", ID: "C"																				
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)
5148	426774.93	5410209.00	396.00	0	DEN	A	110.9	0.0	0.0	0.0	0.0	81.4	9.6	-0.5	0.7	0.0	4.1	0.0	0.0	15.6

Point Source, ISO 9613, Name: "Outcrop 3 Aggregate Pit Excavator PC360LC", ID: "Outcrop3_E"																				
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)
5153	428618.55	5410215.86	374.00	0	D	A	116.4	0.0	0.0	0.0	0.0	81.8	7.9	1.0	0.8	0.0	3.3	0.0	0.0	21.5
5153	428618.55	5410215.86	374.00	0	N	A	116.4	0.0	-188.0	0.0	0.0	81.8	7.9	1.0	0.8	0.0	3.3	0.0	0.0	-166.5
5153	428618.55	5410215.86	374.00	0	E	A	116.4	0.0	-188.0	0.0	0.0	81.8	7.9	1.0	0.8	0.0	3.3	0.0	0.0	-166.5

Point Source, ISO 9613, Name: "Track Dozer 08 (PAG - Komatsu D375)", ID: "TD08N"																				
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)
5158	428071.74	5410284.02	382.04	0	D	A	115.2	0.0	-188.0	0.0	0.0	81.6	8.3	0.6	0.9	0.0	3.8	0.0	0.0	-167.9
5158	428071.74	5410284.02	382.04	0	N	A	115.2	0.0	0.0	0.0	0.0	81.6	8.3	0.6	0.9	0.0	3.8	0.0	0.0	20.1
5158	428071.74	5410284.02	382.04	0	E	A	115.2	0.0	-188.0	0.0	0.0	81.6	8.3	0.6	0.9	0.0	3.8	0.0	0.0	-167.9

Point Source, ISO 9613, Name: "Roen Graval Pit Mobile Primary Crusher (PowerScreen)", ID: "Roen_PS"																				
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)
5165	425718.77	5411577.59	372.00	0	D	A	119.1	0.0	0.0	0.0	0.0	84.9	10.6	0.8	0.8	0.0	3.4	0.0	0.0	18.6
5165	425718.77	5411577.59	372.00	0	N	A	119.1	0.0	-188.0	0.0	0.0	84.9	10.6	0.8	0.8	0.0	3.4	0.0	0.0	-169.4
5165	425718.77	5411577.59	372.00	0	E	A	119.1	0.0	-188.0	0.0	0.0	84.9	10.6	0.8	0.8	0.0	3.4	0.0	0.0	-169.4

Point Source, ISO 9613, Name: "LD4 Graval Pit Mobile Crushing Plant Loader (CAT 966H)", ID: "LD4_FEL"																				
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)
5169	423092.38	5410389.41	353.06	0	DEN	A	114.3	0.0	0.0	0.0	0.0	85.9	8.1	-2.1	0.0	0.0	3.9	0.0	0.0	18.5

Point Source, ISO 9613, Name: "LD4 Graval Pit Mobile Primary Crusher (PowerScreen)", ID: "LD4_PS"																				
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)
5176	423033.38	5410373.89	356.00	0	D	A	119.1	0.0	0.0	0.0	0.0	85.9	11.5	0.8	0.0	0.0	3.3	0.0	0.0	17.5
5176	423033.38	5410373.89	356.00	0	N	A	119.1	0.0	-188.0	0.0	0.0	85.9	11.5	0.8	0.0	0.0	3.3	0.0	0.0	-170.5
5176	423033.38	5410373.89	356.00	0	E	A	119.1	0.0	-188.0	0.0	0.0	85.9	11.5	0.8	0.0	0.0	3.3	0.0	0.0	-170.5

Point Source, ISO 9613, Name: "Water Pump WP11", ID: "WP11"																				
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)
5182	426316.27	5409233.06	362.27	0	DEN	A	106.3	0.0	0.0	0.0	0.0	79.1	8.9	2.1	1.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "Water Pump WP10", ID: "WP10"																				
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)
5186	425887.64	5409139.23	357.61	0	DEN	A	106.3	0.0	0.0	0.0	0.0	79.6	9.2	2.2	0.9	0.0	2.6	0.0	0.0	11.9

Point Source, ISO 9613, Name: "Track Dozer 12 (NPAG/OB - Komatsu D375)", ID: "TD12N"																				
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)
5191	425044.71	5410766.17	368.00	0	D	A	115.2	0.0	-188.0	0.0	0.0	84.1	10.1	1.0	0.8	0.0	3.5	0.0	0.0	-172.2
5191	425044.71	5410766.17	368.00	0	N	A	115.2	0.0	0.0	0.0	0.0	84.1	10.1	1.0	0.8	0.0	3.5	0.0	0.0	15.8

Sample Calculations

Point Source, ISO 9613, Name: "Track Dozer 12 (NPAG/OB - Komatsu D375)", ID: "TD12N"																				
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)
5191	425044.71	5410766.17	368.00	0	E	A	115.2	0.0	-188.0	0.0	0.0	84.1	10.1	1.0	0.8	0.0	3.5	0.0	0.0	-172.2

Point Source, ISO 9613, Name: "Roen Aggregate Pit Excavator PC360LC", ID: "Roen_E"																				
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)
5203	425747.92	5411568.95	372.00	0	D	A	116.4	0.0	0.0	0.0	0.0	84.8	10.0	1.5	0.8	0.0	2.9	0.0	0.0	16.4
5203	425747.92	5411568.95	372.00	0	N	A	116.4	0.0	-188.0	0.0	0.0	84.8	10.0	1.5	0.8	0.0	2.9	0.0	0.0	-171.6
5203	425747.92	5411568.95	372.00	0	E	A	116.4	0.0	-188.0	0.0	0.0	84.8	10.0	1.5	0.8	0.0	2.9	0.0	0.0	-171.6

Point Source, ISO 9613, Name: "Water Pump WP09", ID: "WP09"																				
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)
5212	425427.68	5409196.41	349.19	0	DEN	A	106.3	0.0	0.0	0.0	0.0	80.6	9.8	2.2	0.6	0.0	2.5	0.0	0.0	10.6

Point Source, ISO 9613, Name: "Water Pump WP04", ID: "WP04"																				
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)
5218	425720.13	5409517.11	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	80.8	10.0	2.2	0.3	0.0	18.9	0.0	0.0	-5.9

Point Source, ISO 9613, Name: "Water Pump WP05", ID: "WP05"																				
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)
5219	425608.12	5409494.17	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	80.9	10.1	2.2	0.2	0.0	16.7	0.0	0.0	-3.8

Point Source, ISO 9613, Name: "Water Pump WP03", ID: "WP03"																				
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)
5221	425716.08	5409594.04	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	81.0	10.1	2.3	0.3	0.0	7.9	0.0	0.0	4.8

Point Source, ISO 9613, Name: "Water Pump WP06", ID: "WP06"																				
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)
5227	425486.66	5409506.32	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	81.2	10.2	2.3	0.2	0.0	16.3	0.0	0.0	-3.8

Point Source, ISO 9613, Name: "Water Pump WP02", ID: "WP02"																				
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)
5229	425672.89	5409648.02	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	81.2	10.2	2.3	0.5	0.0	3.3	0.0	0.0	8.9

Point Source, ISO 9613, Name: "LD4 Aggregate Pit Excavator PC360LC", ID: "LD4_E"																				
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)
5238	423021.76	5410367.74	356.00	0	D	A	116.4	0.0	0.0	0.0	0.0	86.0	10.8	1.6	0.0	0.0	2.8	0.0	0.0	15.2
5238	423021.76	5410367.74	356.00	0	N	A	116.4	0.0	-188.0	0.0	0.0	86.0	10.8	1.6	0.0	0.0	2.8	0.0	0.0	-172.8
5238	423021.76	5410367.74	356.00	0	E	A	116.4	0.0	-188.0	0.0	0.0	86.0	10.8	1.6	0.0	0.0	2.8	0.0	0.0	-172.8

Point Source, ISO 9613, Name: "Track Dozer 11 (NPAG/OB - Komatsu D475)", ID: "TD11N"																				
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)
5245	423353.77	5410438.11	364.00	0	D	A	115.2	0.0	-188.0	0.0	0.0	85.6	11.4	1.2	0.8	0.0	3.3	0.0	0.0	-175.0
5245	423353.77	5410438.11	364.00	0	N	A	115.2	0.0	0.0	0.0	0.0	85.6	11.4	1.2	0.8	0.0	3.3	0.0	0.0	13.0
5245	423353.77	5410438.11	364.00	0	E	A	115.2	0.0	-188.0	0.0	0.0	85.6	11.4	1.2	0.8	0.0	3.3	0.0	0.0	-175.0

Point Source, ISO 9613, Name: "Water Pump WP07", ID: "WP07"																				
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)
5251	425363.85	5409510.37	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	81.4	10.4	2.3	0.2	0.0	15.4	0.0	0.0	-3.3

Point Source, ISO 9613, Name: "Water Pump WP01", ID: "WP01"																				
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)
5256	425523.49	5409667.40	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	81.5	10.4	2.3	0.5	0.0	2.5	0.0	0.0	9.2

Sample Calculations

Point Source, ISO 9613, Name: "Water Pump WP08", ID: "WP08"																				
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)
5262	425317.96	5409581.89	270.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	81.6	10.5	2.3	0.4	0.0	3.7	0.0	0.0	7.9

Point Source, ISO 9613, Name: "Water Pump WP19", ID: "WP19"																				
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)
5280	426445.21	5410424.32	154.89	0	DEN	A	106.3	0.0	0.0	0.0	0.0	82.2	10.9	2.3	0.5	0.0	22.0	0.0	0.0	-11.6

Point Source, ISO 9613, Name: "Komatsu Wheel Dozer KM WD600", ID: "WD"																				
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)
5291	425558.89	5409562.62	272.00	0	DEN	A	104.9	0.0	0.0	0.0	0.0	81.2	7.8	-0.3	0.3	0.0	8.3	0.0	0.0	7.7

Point Source, ISO 9613, Name: "Water Pump WP13", ID: "WP13"																				
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)
5295	424459.30	5409308.63	348.45	0	DEN	A	106.3	0.0	0.0	0.0	0.0	82.6	11.2	2.3	0.5	0.0	2.3	0.0	0.0	7.5

Point Source, ISO 9613, Name: "Water Pump WP16", ID: "WP16"																				
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)
5303	425369.52	5410194.45	350.85	0	DEN	A	106.3	0.0	0.0	0.0	0.0	82.7	11.3	2.3	0.5	0.0	2.2	0.0	0.0	7.3

Point Source, ISO 9613, Name: "Dust Collector 1", ID: "DC1"																				
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)
5307	426780.20	5410251.09	397.00	0	DEN	A	105.0	0.0	0.0	0.0	0.0	81.5	6.9	0.4	0.9	0.0	3.7	0.0	0.0	11.5

Point Source, ISO 9613, Name: "Water Pump WP12", ID: "WP12"																				
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)
5316	424065.23	5409081.91	350.33	0	DEN	A	106.3	0.0	0.0	0.0	0.0	83.0	11.5	2.3	0.5	0.0	2.2	0.0	0.0	6.8

Point Source, ISO 9613, Name: "Dust Collector 2", ID: "DC2"																				
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)
5327	426611.94	5410474.13	369.41	0	DEN	A	105.0	0.0	0.0	0.0	0.0	82.2	7.3	0.4	0.9	0.0	3.7	0.0	0.0	10.5

Point Source, ISO 9613, Name: "East Outcrop Gravel Pit Mobile Screener (Atlas Copco HCS3715)", ID: "EO_SCNR"																				
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)
5358	426845.69	5409577.47	374.00	0	DEN	A	101.5	0.0	0.0	0.0	0.0	79.6	3.3	3.2	0.7	0.0	2.3	0.0	0.0	12.5

Point Source, ISO 9613, Name: "Wet Scrubber", ID: "WS"																				
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)
5367	426584.81	5410957.29	373.97	0	DEN	A	105.0	0.0	0.0	0.0	0.0	83.3	7.9	1.8	0.9	0.0	2.8	0.0	0.0	8.4

Point Source, ISO 9613, Name: "Water Pump WP17", ID: "WP17"																				
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)
5381	424105.05	5410979.95	355.42	0	DEN	A	106.3	0.0	0.0	0.0	0.0	85.4	13.1	2.1	0.3	0.0	2.1	0.0	0.0	3.3

Point Source, ISO 9613, Name: "Water Pump WP15", ID: "WP15"																				
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)
5393	423105.04	5410312.80	346.64	0	DEN	A	106.3	0.0	0.0	0.0	0.0	85.8	13.4	2.1	0.3	0.0	2.1	0.0	0.0	2.6

Point Source, ISO 9613, Name: "Water Pump WP14", ID: "WP14"																				
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)
5399	423065.90	5410311.46	353.00	0	DEN	A	106.3	0.0	0.0	0.0	0.0	85.8	13.4	2.0	0.0	0.0	2.1	0.0	0.0	2.9

Sample Calculations

Point Source, ISO 9613, Name: "Water Pump WP18", ID: "WP18"																				
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)
5426	421921.50	5409452.64	345.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	86.7	14.0	1.9	0.0	0.0	2.2	0.0	0.0	1.6

Line Source, ISO 9613, Name: "Truck Route-NPAG (Loaded Truck)", ID: "TRL_NPAG"																				
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)
5215	423588.65	5410425.62	357.09	0	DEN	A	82.3	28.0	0.0	0.0	0.0	85.3	3.7	2.1	0.1	0.0	2.0	0.0	0.0	17.1
5225	424863.06	5409601.02	355.94	0	DEN	A	82.3	25.0	0.0	0.0	0.0	82.4	2.9	2.1	0.2	0.0	2.1	0.0	0.0	17.7
5230	425631.13	5409578.92	272.50	0	DEN	A	82.3	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.3	0.0	0.0	15.9
5249	424652.91	5409852.22	356.25	0	DEN	A	82.3	25.4	0.0	0.0	0.0	83.1	3.1	2.1	0.2	0.0	0.0	0.0	0.0	19.2
5259	425556.58	5409447.84	294.43	0	DEN	A	82.3	23.2	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.0	0.0	0.0	9.8
5263	425588.80	5409328.01	337.34	0	DEN	A	82.3	22.8	0.0	0.0	0.0	80.6	2.5	2.1	0.1	0.0	7.7	0.0	0.0	12.2
5273	423851.12	5410040.68	357.23	0	DEN	A	82.3	26.3	0.0	0.0	0.0	84.5	3.5	2.1	0.1	0.0	8.9	0.0	0.0	9.5
5299	424210.85	5409812.81	355.72	0	DEN	A	82.3	25.0	0.0	0.0	0.0	83.7	3.3	2.1	0.1	0.0	2.0	0.0	0.0	16.1
5304	425316.70	5409335.94	355.75	0	DEN	A	82.3	22.1	0.0	0.0	0.0	81.1	2.6	2.1	0.2	0.0	2.1	0.0	0.0	16.4
5324	425041.41	5409441.92	354.94	0	DEN	A	82.3	22.2	0.0	0.0	0.0	81.8	2.8	2.1	0.2	0.0	2.1	0.0	0.0	15.6
5329	425738.14	5409357.59	325.97	0	DEN	A	82.3	20.7	0.0	0.0	0.0	80.4	2.5	2.1	0.1	0.0	5.9	0.0	0.0	12.1
5331	425715.33	5409425.81	318.99	0	DEN	A	82.3	20.8	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	15.6
5336	423963.54	5409775.56	360.35	0	DEN	A	82.3	24.0	0.0	0.0	0.0	84.0	3.4	2.1	0.1	0.0	2.0	0.0	0.0	14.7
5339	424448.61	5409947.90	354.25	0	DEN	A	82.3	23.6	0.0	0.0	0.0	83.5	3.2	2.1	0.1	0.0	2.0	0.0	0.0	14.9
5341	425171.97	5409370.15	355.50	0	DEN	A	82.3	21.3	0.0	0.0	0.0	81.4	2.7	2.1	0.2	0.0	2.1	0.0	0.0	15.2
5368	425445.75	5409321.97	351.12	0	DEN	A	82.3	19.9	0.0	0.0	0.0	80.8	2.6	2.1	0.2	0.0	2.1	0.0	0.0	14.5
5401	425395.32	5409583.25	272.50	0	DEN	A	82.3	19.6	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	12.4
5415	425423.50	5409490.18	273.88	0	DEN	A	82.3	18.8	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.1	0.0	0.0	0.9
5418	425476.60	5409587.50	272.50	0	DEN	A	82.3	18.7	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	11.7
5453	425790.98	5409416.03	324.43	0	DEN	A	82.3	16.3	0.0	0.0	0.0	80.5	2.5	2.1	0.2	0.0	2.1	0.0	0.0	11.3
5455	425370.43	5409524.25	272.50	0	DEN	A	82.3	17.2	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	10.0	0.0	0.0	3.3
5500	425799.97	5409390.54	324.50	0	DEN	A	82.3	14.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.2	0.0	0.0	9.3
5510	425351.11	5409558.08	272.50	0	DEN	A	82.3	15.0	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	5.3

Line Source, ISO 9613, Name: "Truck Route-Overburden (Loaded Truck)", ID: "TRL_OB"																				
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)
5197	424849.97	5410618.91	366.88	0	D	A	82.0	28.4	0.0	0.0	0.0	84.1	3.4	2.1	0.2	0.0	0.0	0.0	0.0	20.7
5197	424849.97	5410618.91	366.88	0	N	A	82.0	28.4	0.0	0.0	0.0	84.1	3.4	2.1	0.2	0.0	0.0	0.0	0.0	20.7
5197	424849.97	5410618.91	366.88	0	E	A	82.0	28.4	0.0	0.0	0.0	84.1	3.4	2.1	0.2	0.0	0.0	0.0	0.0	20.7
5261	425630.86	5409578.95	272.50	0	D	A	82.0	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.2	0.0	0.0	15.5
5261	425630.86	5409578.95	272.50	0	N	A	82.0	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.2	0.0	0.0	15.5
5261	425630.86	5409578.95	272.50	0	E	A	82.0	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.2	0.0	0.0	15.5
5266	424653.62	5409851.80	356.23	0	D	A	82.0	25.3	0.0	0.0	0.0	83.1	3.1	2.1	0.2	0.0	0.0	0.0	0.0	18.8
5266	424653.62	5409851.80	356.23	0	N	A	82.0	25.3	0.0	0.0	0.0	83.1	3.1	2.1	0.2	0.0	0.0	0.0	0.0	18.8
5266	424653.62	5409851.80	356.23	0	E	A	82.0	25.3	0.0	0.0	0.0	83.1	3.1	2.1	0.2	0.0	0.0	0.0	0.0	18.8
5267	425555.94	5409447.62	294.25	0	D	A	82.0	23.3	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	9.5
5267	425555.94	5409447.62	294.25	0	N	A	82.0	23.3	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	9.5
5267	425555.94	5409447.62	294.25	0	E	A	82.0	23.3	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	9.5
5275	425591.86	5409328.39	337.02	0	D	A	82.0	22.7	0.0	0.0	0.0	80.6	2.5	2.1	0.1	0.0	8.1	0.0	0.0	11.3
5275	425591.86	5409328.39	337.02	0	N	A	82.0	22.7	0.0	0.0	0.0	80.6	2.5	2.1	0.1	0.0	8.1	0.0	0.0	11.3
5275	425591.86	5409328.39	337.02	0	E	A	82.0	22.7	0.0	0.0	0.0	80.6	2.5	2.1	0.1	0.0	8.1	0.0	0.0	11.3
5286	424427.12	5410109.54	356.23	0	D	A	82.0	25.4	0.0	0.0	0.0	83.8	3.3	2.1	0.2	0.0	0.0	0.0	0.0	18.0
5286	424427.12	5410109.54	356.23	0	N	A	82.0	25.4	0.0	0.0	0.0	83.8	3.3	2.1	0.2	0.0	0.0	0.0	0.0	18.0
5286	424427.12	5410109.54	356.23	0	E	A	82.0	25.4	0.0	0.0	0.0	83.8	3.3	2.1	0.2	0.0	0.0	0.0	0.0	18.0
5311	424413.83	5410358.11	361.50	0	D	A	82.0	25.5	0.0	0.0	0.0	84.2	3.4	2.1	0.1	0.0	2.0	0.0	0.0	15.6
5311	424413.83	5410358.11	361.50	0	N	A	82.0	25.5	0.0	0.0	0.0	84.2	3.4	2.1	0.1	0.0	2.0	0.0	0.0	15.6
5311	424413.83	5410358.11	361.50	0	E	A	82.0	25.5	0.0	0.0	0.0	84.2	3.4	2.1	0.1	0.0	2.0	0.0	0.0	15.6
5320	425308.84	5409337.94	356.01	0	D	A	82.0	22.0	0.0	0.0	0.0	81.1	2.6	2.1	0.2	0.0	2.1	0.0	0.0	15.9
5320	425308.84	5409337.94	356.01	0	N	A	82.0	22.0	0.0	0.0	0.0	81.1	2.6	2.1	0.2	0.0	2.1	0.0	0.0	15.9
5320	425308.84	5409337.94	356.01	0	E	A	82.0	22.0	0.0	0.0	0.0	81.1	2.6	2.1	0.2	0.0	2.1	0.0	0.0	15.9
5322	424825.32	5409635.11	356.44	0	D	A	82.0	23.3	0.0	0.0	0.0	82.5	2.9	2.1	0.2	0.0	0.0	0.0	0.0	17.5
5322	424825.32	5409635.11	356.44	0	N	A	82.0	23.3	0.0	0.0	0.0	82.5	2.9	2.1	0.2	0.0	0.0	0.0	0.0	17.5
5322	424825.32	5409635.11	356.44	0	E	A	82.0	23.3	0.0	0.0	0.0	82.5	2.9	2.1	0.2	0.0	0.0	0.0	0.0	17.5
5343	425738.38	5409357.57	325.93	0	D	A	82.0	20.7	0.0	0.0	0.0	80.4	2.5	2.1	0.1	0.0	5.9	0.0	0.0	11.8
5343	425738.38	5409357.57	325.93	0	N	A	82.0	20.7	0.0	0.0	0.0	80.4	2.5	2.1	0.1	0.0	5.9	0.0	0.0	11.8
5343	425738.38	5409357.57	325.93	0	E	A	82.0	20.7	0.0	0.0	0.0	80.4	2.5	2.1	0.1	0.0	5.9	0.0	0.0	11.8
5344	425716.15	5409425.27	319.14	0	D	A	82.0	20.8	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	15.2

Sample Calculations

Line Source, ISO 9613, Name: "Truck Route-Overburden (Loaded Truck)", ID: "TRL_OB"																				
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)
5344	425716.15	5409425.27	319.14	0	N	A	82.0	20.8	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	15.2
5344	425716.15	5409425.27	319.14	0	E	A	82.0	20.8	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	15.2
5350	425046.39	5409436.86	354.50	0	D	A	82.0	21.7	0.0	0.0	0.0	81.8	2.8	2.1	0.2	0.0	2.1	0.0	0.0	14.8
5350	425046.39	5409436.86	354.50	0	N	A	82.0	21.7	0.0	0.0	0.0	81.8	2.8	2.1	0.2	0.0	2.1	0.0	0.0	14.8
5350	425046.39	5409436.86	354.50	0	E	A	82.0	21.7	0.0	0.0	0.0	81.8	2.8	2.1	0.2	0.0	2.1	0.0	0.0	14.8
5360	425167.98	5409371.49	355.50	0	D	A	82.0	21.2	0.0	0.0	0.0	81.4	2.7	2.1	0.2	0.0	2.1	0.0	0.0	14.7
5360	425167.98	5409371.49	355.50	0	N	A	82.0	21.2	0.0	0.0	0.0	81.4	2.7	2.1	0.2	0.0	2.1	0.0	0.0	14.7
5360	425167.98	5409371.49	355.50	0	E	A	82.0	21.2	0.0	0.0	0.0	81.4	2.7	2.1	0.2	0.0	2.1	0.0	0.0	14.7
5363	425443.87	5409323.62	351.10	0	D	A	82.0	20.5	0.0	0.0	0.0	80.8	2.6	2.1	0.2	0.0	2.1	0.0	0.0	14.7
5363	425443.87	5409323.62	351.10	0	N	A	82.0	20.5	0.0	0.0	0.0	80.8	2.6	2.1	0.2	0.0	2.1	0.0	0.0	14.7
5363	425443.87	5409323.62	351.10	0	E	A	82.0	20.5	0.0	0.0	0.0	80.8	2.6	2.1	0.2	0.0	2.1	0.0	0.0	14.7
5385	424943.13	5409519.90	355.44	0	D	A	82.0	20.7	0.0	0.0	0.0	82.1	2.8	2.1	0.2	0.0	2.1	0.0	0.0	13.4
5385	424943.13	5409519.90	355.44	0	N	A	82.0	20.7	0.0	0.0	0.0	82.1	2.8	2.1	0.2	0.0	2.1	0.0	0.0	13.4
5385	424943.13	5409519.90	355.44	0	E	A	82.0	20.7	0.0	0.0	0.0	82.1	2.8	2.1	0.2	0.0	2.1	0.0	0.0	13.4
5409	425395.00	5409583.31	272.50	0	D	A	82.0	19.6	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	12.1
5409	425395.00	5409583.31	272.50	0	N	A	82.0	19.6	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	12.1
5409	425395.00	5409583.31	272.50	0	E	A	82.0	19.6	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	12.1
5428	425421.34	5409491.11	273.60	0	D	A	82.0	18.8	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.1	0.0	0.0	0.7
5428	425421.34	5409491.11	273.60	0	N	A	82.0	18.8	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.1	0.0	0.0	0.7
5428	425421.34	5409491.11	273.60	0	E	A	82.0	18.8	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.1	0.0	0.0	0.7
5434	425476.90	5409587.56	272.50	0	D	A	82.0	18.8	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	11.4
5434	425476.90	5409587.56	272.50	0	N	A	82.0	18.8	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	11.4
5434	425476.90	5409587.56	272.50	0	E	A	82.0	18.8	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	11.4
5458	425791.49	5409415.83	324.49	0	D	A	82.0	16.2	0.0	0.0	0.0	80.5	2.5	2.1	0.2	0.0	2.1	0.0	0.0	10.9
5458	425791.49	5409415.83	324.49	0	N	A	82.0	16.2	0.0	0.0	0.0	80.5	2.5	2.1	0.2	0.0	2.1	0.0	0.0	10.9
5458	425791.49	5409415.83	324.49	0	E	A	82.0	16.2	0.0	0.0	0.0	80.5	2.5	2.1	0.2	0.0	2.1	0.0	0.0	10.9
5460	425368.99	5409525.35	272.50	0	D	A	82.0	17.0	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	9.8	0.0	0.0	3.0
5460	425368.99	5409525.35	272.50	0	N	A	82.0	17.0	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	9.8	0.0	0.0	3.0
5460	425368.99	5409525.35	272.50	0	E	A	82.0	17.0	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	9.8	0.0	0.0	3.0
5509	425800.02	5409390.79	324.50	0	D	A	82.0	14.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.2	0.0	0.0	9.0
5509	425800.02	5409390.79	324.50	0	N	A	82.0	14.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.2	0.0	0.0	9.0
5509	425800.02	5409390.79	324.50	0	E	A	82.0	14.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.2	0.0	0.0	9.0
5521	425350.50	5409558.44	272.50	0	D	A	82.0	15.0	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	4.9
5521	425350.50	5409558.44	272.50	0	N	A	82.0	15.0	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	4.9
5521	425350.50	5409558.44	272.50	0	E	A	82.0	15.0	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	4.9

Point Source, ISO 9613, Name: "Outcrop3 Graval Pit Mobile Screener (Atlas Copco HCS3715)", ID: "Outcrop3_SCNR"																				
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)
5573	428581.67	5410189.02	374.00	0	D	A	101.5	0.0	0.0	0.0	0.0	81.7	3.8	3.3	0.3	0.0	1.4	0.0	0.0	11.1
5573	428581.67	5410189.02	374.00	0	N	A	101.5	0.0	-188.0	0.0	0.0	81.7	3.8	3.3	0.3	0.0	1.4	0.0	0.0	-176.9
5573	428581.67	5410189.02	374.00	0	E	A	101.5	0.0	-188.0	0.0	0.0	81.7	3.8	3.3	0.3	0.0	1.4	0.0	0.0	-176.9

Point Source, ISO 9613, Name: "Pinewood River Water Pump", ID: "WP20"																				
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)
5611	415594.37	5407042.99	340.75	0	DEN	A	106.3	0.0	0.0	0.0	0.0	92.5	17.7	0.3	0.0	0.0	2.8	0.0	0.0	-7.0

Line Source, ISO 9613, Name: "Water Truck Route PAG", ID: "WTR_PAG"																				
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)
5446	427734.84	5409874.76	379.29	0	DEN	A	71.9	26.6	0.0	0.0	0.0	80.4	9.6	-0.3	0.9	0.0	4.0	0.0	0.0	3.9
5595	427428.21	5409835.98	387.44	0	DEN	A	71.9	22.2	0.0	0.0	0.0	80.2	9.5	-0.3	0.9	0.0	4.0	0.0	0.0	-0.1
5647	427277.39	5409801.98	390.95	0	DEN	A	71.9	21.5	0.0	0.0	0.0	80.1	9.4	-0.3	0.9	0.0	4.1	0.0	0.0	-0.7

Line Source, ISO 9613, Name: "Water Truck Route OB", ID: "WTR_OB"																				
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)
5493	424846.28	5410617.34	365.01	0	DEN	A	71.9	28.4	0.0	0.0	0.0	84.1	12.4	0.4	0.9	0.0	0.0	0.0	0.0	2.6
5606	424426.76	5410109.35	356.24	0	DEN	A	71.9	25.4	0.0	0.0	0.0	83.8	12.2	0.4	0.9	0.0	0.0	0.0	0.0	0.1
5669	424411.70	5410356.21	359.50	0	DEN	A	71.9	25.4	0.0	0.0	0.0	84.2	12.5	0.5	0.8	0.0	3.6	0.0	0.0	-4.1

Sample Calculations

Line Source, ISO 9613, Name: "Truck Route Open Pit to Mill (Loaded Truck)", ID: "TRL_OPMill"																				
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)
5289	426038.87	5409390.74	335.10	0	DEN	A	79.3	24.3	0.0	0.0	0.0	80.0	2.4	2.1	0.6	0.0	9.6	0.0	0.0	9.0
5353	425629.72	5409578.70	272.50	0	DEN	A	79.3	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.2	0.0	0.0	12.9
5355	426345.87	5409644.29	366.78	0	DEN	A	79.3	22.9	0.0	0.0	0.0	80.3	2.4	2.1	0.2	0.0	2.1	0.0	0.0	15.1
5357	426538.83	5409923.32	385.70	0	DEN	A	79.3	23.3	0.0	0.0	0.0	80.8	2.6	2.1	0.3	0.0	0.0	0.0	0.0	16.9
5361	425556.60	5409447.40	294.41	0	DEN	A	79.3	23.2	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	6.8
5403	425840.07	5409411.51	324.61	0	DEN	A	79.3	21.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	13.4
5405	426451.31	5409770.81	376.37	0	DEN	A	79.3	21.4	0.0	0.0	0.0	80.5	2.5	2.1	0.3	0.0	0.0	0.0	0.0	15.4
5430	425715.40	5409425.95	319.00	0	DEN	A	79.3	20.8	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	12.5
5435	426198.87	5409424.30	349.80	0	DEN	A	79.3	19.5	0.0	0.0	0.0	79.9	2.4	2.0	0.6	0.0	2.6	0.0	0.0	11.4
5444	426616.94	5410059.66	390.65	0	DEN	A	79.3	20.0	0.0	0.0	0.0	81.1	2.6	2.1	0.2	0.0	2.1	0.0	0.0	11.2
5448	426236.26	5409496.49	356.92	0	DEN	A	79.3	18.8	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	11.4
5472	425394.90	5409583.08	272.50	0	DEN	A	79.3	19.6	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	9.4
5476	426703.70	5410166.27	393.25	0	DEN	A	79.3	19.4	0.0	0.0	0.0	81.4	2.7	2.1	0.2	0.0	2.1	0.0	0.0	10.3
5477	425422.66	5409490.06	273.82	0	DEN	A	79.3	18.8	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.2	0.0	0.0	-2.1
5479	425476.27	5409587.12	272.50	0	DEN	A	79.3	18.7	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	8.7
5488	426261.44	5409555.18	360.19	0	DEN	A	79.3	17.2	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	9.6
5541	425369.42	5409524.53	272.50	0	DEN	A	79.3	17.1	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	10.0	0.0	0.0	0.3
5554	426655.98	5410121.94	389.96	0	DEN	A	79.3	16.6	0.0	0.0	0.0	81.3	2.7	2.1	0.2	0.0	2.1	0.0	0.0	7.6
5694	425350.40	5409558.15	272.50	0	DEN	A	79.3	15.1	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	2.3

Point Source, ISO 9613, Name: "Pinewood River Pumphouse Generator (CAT 660 kW)", ID: "PG1"																				
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)
5710	415588.16	5407043.32	342.00	0	DEN	A	105.2	0.0	0.0	0.0	0.0	92.5	10.7	3.0	0.0	0.0	1.4	0.0	0.0	-2.4

Line Source, ISO 9613, Name: "Motor Grader Route OB", ID: "MGR_OB"																				
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)
5515	424846.71	5410617.03	365.09	0	DEN	A	71.1	28.4	0.0	0.0	0.0	84.1	9.6	0.5	0.7	0.0	0.0	0.0	0.0	4.6
5685	424426.86	5410109.39	356.24	0	DEN	A	71.1	25.4	0.0	0.0	0.0	83.8	9.4	0.5	0.7	0.0	0.0	0.0	0.0	2.1
5722	424412.01	5410356.27	359.59	0	DEN	A	71.1	25.4	0.0	0.0	0.0	84.2	9.7	0.6	0.6	0.0	3.4	0.0	0.0	-1.9

Line Source, ISO 9613, Name: "Motor Grader Route PAG", ID: "MGR_PAG"																				
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)
5473	427734.84	5409874.76	379.29	0	DEN	A	71.1	26.6	0.0	0.0	0.0	80.4	7.4	0.1	0.7	0.0	3.8	0.0	0.0	5.3
5668	427428.21	5409835.98	387.44	0	DEN	A	71.1	22.2	0.0	0.0	0.0	80.2	7.3	0.1	0.7	0.0	3.8	0.0	0.0	1.2
5727	427280.60	5409802.25	390.64	0	DEN	A	71.1	21.3	0.0	0.0	0.0	80.1	7.3	0.1	0.8	0.0	3.8	0.0	0.0	0.5

Point Source, ISO 9613, Name: "Roen Graval Pit Mobile Screener (Atlas Copco HCS3715)", ID: "Roen_SCNR"																				
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)
5804	425668.03	5411515.58	372.00	0	D	A	101.5	0.0	0.0	0.0	0.0	84.8	4.8	3.4	0.3	0.0	1.2	0.0	0.0	7.1
5804	425668.03	5411515.58	372.00	0	N	A	101.5	0.0	-188.0	0.0	0.0	84.8	4.8	3.4	0.3	0.0	1.2	0.0	0.0	-180.9
5804	425668.03	5411515.58	372.00	0	E	A	101.5	0.0	-188.0	0.0	0.0	84.8	4.8	3.4	0.3	0.0	1.2	0.0	0.0	-180.9

Line Source, ISO 9613, Name: "Truck Route Stockpile (Loaded Truck)", ID: "TRL_SP"																				
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)
5258	427524.15	5409592.10	387.98	0	DEN	A	78.6	25.7	0.0	0.0	0.0	79.4	2.3	2.0	0.6	0.0	6.9	0.0	0.0	13.1
5319	426038.75	5409390.55	335.09	0	DEN	A	78.6	24.3	0.0	0.0	0.0	80.0	2.4	2.1	0.6	0.0	9.8	0.0	0.0	8.1
5334	426432.91	5409603.33	373.37	0	DEN	A	78.6	23.8	0.0	0.0	0.0	80.1	2.4	2.1	0.3	0.0	0.0	0.0	0.0	17.7
5371	425631.27	5409578.87	272.50	0	DEN	A	78.6	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.3	0.0	0.0	12.2
5374	426638.34	5409616.36	380.50	0	DEN	A	78.6	22.4	0.0	0.0	0.0	79.9	2.4	2.0	0.2	0.0	2.1	0.0	0.0	14.4
5375	425557.71	5409447.01	294.74	0	DEN	A	78.6	23.2	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	6.1
5376	426796.68	5409678.62	385.50	0	DEN	A	78.6	22.3	0.0	0.0	0.0	80.0	2.4	2.0	0.2	0.0	2.1	0.0	0.0	14.2
5407	427068.94	5409750.48	394.19	0	DEN	A	78.6	21.6	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	13.5
5416	426935.43	5409722.19	390.52	0	DEN	A	78.6	21.1	0.0	0.0	0.0	80.0	2.4	2.1	0.3	0.0	0.0	0.0	0.0	15.1
5419	425840.98	5409411.19	324.69	0	DEN	A	78.6	21.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	12.7
5436	427267.01	5409719.16	394.50	0	DEN	A	78.6	20.0	0.0	0.0	0.0	79.9	2.4	2.0	0.2	0.0	2.2	0.0	0.0	12.0
5437	425716.63	5409425.45	319.18	0	DEN	A	78.6	20.8	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	11.9
5442	426199.24	5409424.15	349.80	0	DEN	A	78.6	19.5	0.0	0.0	0.0	79.9	2.4	2.0	0.6	0.0	2.6	0.0	0.0	10.7
5462	427177.12	5409782.45	393.17	0	DEN	A	78.6	19.1	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	10.9
5465	426236.18	5409496.59	357.03	0	DEN	A	78.6	18.9	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	10.7

Sample Calculations

Line Source, ISO 9613, Name: "Truck Route Stockpile (Loaded Truck)", ID: "TRL_SP"																				
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)
5480	425395.60	5409583.43	272.50	0	DEN	A	78.6	19.5	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	8.7
5486	425422.45	5409490.02	274.06	0	DEN	A	78.6	19.0	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.2	0.0	0.0	-2.5
5503	425476.42	5409587.79	272.50	0	DEN	A	78.6	18.7	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	8.1
5507	426261.76	5409556.01	360.53	0	DEN	A	78.6	17.4	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	9.1
5530	426294.77	5409595.16	364.77	0	DEN	A	78.6	16.9	0.0	0.0	0.0	80.2	2.4	2.1	0.2	0.0	2.1	0.0	0.0	8.5
5543	427324.82	5409616.26	399.04	0	DEN	A	78.6	15.9	0.0	0.0	0.0	79.5	2.3	2.0	0.6	0.0	2.1	0.0	0.0	7.9
5574	425368.22	5409524.95	272.50	0	DEN	A	78.6	17.1	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	9.9	0.0	0.0	-0.5
5601	427298.96	5409639.05	398.83	0	DEN	A	78.6	14.9	0.0	0.0	0.0	79.6	2.3	2.0	0.3	0.0	0.0	0.0	0.0	9.3
5660	427231.03	5409784.83	390.50	0	DEN	A	78.6	14.7	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	6.5
5730	427284.95	5409661.13	398.83	0	DEN	A	78.6	13.4	0.0	0.0	0.0	79.7	2.3	2.0	0.3	0.0	0.0	0.0	0.0	7.7
5757	425351.12	5409558.61	272.50	0	DEN	A	78.6	14.9	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	1.6
5877	427249.50	5409774.00	390.50	0	DEN	A	78.6	11.9	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	3.8

Point Source, ISO 9613, Name: "WMP Air Compressor 1", ID: "AC1"																				
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)
5890	421213.68	5411429.46	370.28	0	DEN	A	99.0	0.0	0.0	0.0	0.0	88.7	8.1	4.0	0.0	0.0	0.6	0.0	0.0	-2.4

Point Source, ISO 9613, Name: "LD4 Graval Pit Mobile Screener (Atlas Copco HCS3715)", ID: "LD4_SCNR"																				
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)
5896	423089.66	5410366.72	352.00	0	D	A	101.5	0.0	0.0	0.0	0.0	85.9	5.2	3.4	0.0	0.0	1.2	0.0	0.0	5.9
5896	423089.66	5410366.72	352.00	0	N	A	101.5	0.0	-188.0	0.0	0.0	85.9	5.2	3.4	0.0	0.0	1.2	0.0	0.0	-182.1
5896	423089.66	5410366.72	352.00	0	E	A	101.5	0.0	-188.0	0.0	0.0	85.9	5.2	3.4	0.0	0.0	1.2	0.0	0.0	-182.1

Point Source, ISO 9613, Name: "WMP Air Compressor 4", ID: "AC4"																				
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)
5932	421343.51	5412002.41	366.00	0	DEN	A	99.0	0.0	0.0	0.0	0.0	89.0	8.3	4.0	0.0	0.0	0.6	0.0	0.0	-2.9

Point Source, ISO 9613, Name: "WMP Air Compressor 2", ID: "AC2"																				
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)
5969	420461.43	5411544.61	364.13	0	DEN	A	99.0	0.0	0.0	0.0	0.0	89.4	8.6	3.9	0.0	0.0	0.6	0.0	0.0	-3.6

Point Source, ISO 9613, Name: "WMP Air Compressor 3", ID: "AC3"																				
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)
6006	420185.80	5412295.08	363.39	0	DEN	A	99.0	0.0	0.0	0.0	0.0	90.1	9.0	3.9	0.0	0.0	0.7	0.0	0.0	-4.7

Line Source, ISO 9613, Name: "Water Truck Route NPAG", ID: "WTR_NPAG"																				
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)
5534	423588.91	5410425.34	375.10	0	DEN	A	71.9	28.0	0.0	0.0	0.0	85.3	13.4	0.7	0.7	0.0	3.4	0.0	0.0	-3.6
5555	424857.88	5409605.74	356.23	0	DEN	A	71.9	24.8	0.0	0.0	0.0	82.4	11.1	0.1	0.8	0.0	3.8	0.0	0.0	-1.5
5565	424653.14	5409852.45	356.25	0	DEN	A	71.9	25.4	0.0	0.0	0.0	83.1	11.6	0.2	0.9	0.0	0.0	0.0	0.0	1.5
5590	425589.14	5409327.95	337.35	0	DEN	A	71.9	22.7	0.0	0.0	0.0	80.6	9.7	-0.2	0.7	0.0	13.4	0.0	0.0	-9.6
5602	423851.49	5410040.72	357.25	0	DEN	A	71.9	26.3	0.0	0.0	0.0	84.5	12.8	0.5	0.5	0.0	14.2	0.0	0.0	-14.3
5655	424210.92	5409812.69	355.70	0	DEN	A	71.9	25.0	0.0	0.0	0.0	83.7	12.1	0.4	0.8	0.0	3.6	0.0	0.0	-3.6
5697	425036.42	5409446.90	355.23	0	DEN	A	71.9	22.5	0.0	0.0	0.0	81.8	10.6	-0.0	0.8	0.0	3.9	0.0	0.0	-2.7
5713	425301.21	5409339.17	356.08	0	DEN	A	71.9	21.7	0.0	0.0	0.0	81.1	10.1	-0.1	0.9	0.0	4.0	0.0	0.0	-2.3
5724	425736.31	5409357.53	326.16	0	DEN	A	71.9	20.8	0.0	0.0	0.0	80.4	9.6	-0.3	0.7	0.0	11.0	0.0	0.0	-8.7
5746	423963.81	5409775.42	360.34	0	DEN	A	71.9	24.0	0.0	0.0	0.0	84.0	12.4	0.4	0.8	0.0	3.6	0.0	0.0	-5.2
5759	424448.77	5409948.08	354.25	0	DEN	A	71.9	23.6	0.0	0.0	0.0	83.5	12.0	0.3	0.8	0.0	3.7	0.0	0.0	-4.7
5760	425436.44	5409324.57	351.28	0	DEN	A	71.9	20.9	0.0	0.0	0.0	80.9	9.9	-0.2	0.9	0.0	4.0	0.0	0.0	-2.6
5775	425167.88	5409371.59	355.50	0	DEN	A	71.9	21.0	0.0	0.0	0.0	81.4	10.3	-0.1	0.9	0.0	3.9	0.0	0.0	-3.5
6061	425790.18	5409416.40	324.41	0	DEN	A	71.9	16.2	0.0	0.0	0.0	80.5	9.6	-0.2	0.9	0.0	4.1	0.0	0.0	-6.6
6138	425798.97	5409391.23	324.50	0	DEN	A	71.9	14.2	0.0	0.0	0.0	80.4	9.6	-0.3	0.9	0.0	4.2	0.0	0.0	-8.6

Line Source, ISO 9613, Name: "Water Truck Route Open Pit to Mill", ID: "WTR_OPMill"																				
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)
5498	426041.08	5409390.69	335.36	0	DEN	A	71.9	24.2	0.0	0.0	0.0	80.0	9.3	-0.3	0.8	0.0	16.1	0.0	0.0	-9.8
5553	425631.88	5409578.88	272.50	0	DEN	A	71.9	23.7	0.0	0.0	0.0	81.1	10.1	-0.1	0.7	0.0	8.7	0.0	0.0	-4.8

Sample Calculations

Line Source, ISO 9613, Name: "Water Truck Route Open Pit to Mill", ID: "WTR_OPMill"																				
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)
5557	426345.87	5409644.29	366.78	0	DEN	A	71.9	22.9	0.0	0.0	0.0	80.3	9.5	-0.3	0.9	0.0	4.0	0.0	0.0	0.4
5558	426538.83	5409923.32	385.70	0	DEN	A	71.9	23.3	0.0	0.0	0.0	80.8	9.9	-0.2	0.9	0.0	0.0	0.0	0.0	3.7
5568	425560.58	5409446.41	295.26	0	DEN	A	71.9	23.2	0.0	0.0	0.0	80.9	10.0	-0.2	0.6	0.0	16.0	0.0	0.0	-12.2
5675	425844.00	5409411.55	324.96	0	DEN	A	71.9	21.4	0.0	0.0	0.0	80.4	9.6	-0.3	0.9	0.0	4.1	0.0	0.0	-1.3
5693	426451.31	5409770.81	376.37	0	DEN	A	71.9	21.4	0.0	0.0	0.0	80.5	9.7	-0.2	0.9	0.0	0.0	0.0	0.0	2.5
5751	425719.47	5409425.42	319.50	0	DEN	A	71.9	20.7	0.0	0.0	0.0	80.6	9.7	-0.2	0.9	0.0	4.3	0.0	0.0	-2.6
5779	426198.89	5409424.32	349.80	0	DEN	A	71.9	19.5	0.0	0.0	0.0	79.9	9.2	-0.3	1.0	0.0	5.5	0.0	0.0	-3.7
5837	426616.94	5410059.66	390.65	0	DEN	A	71.9	20.0	0.0	0.0	0.0	81.1	10.1	-0.1	0.9	0.0	4.0	0.0	0.0	-4.0
5858	426236.26	5409496.49	356.92	0	DEN	A	71.9	18.8	0.0	0.0	0.0	80.0	9.3	-0.3	0.9	0.0	4.1	0.0	0.0	-3.2
5910	425395.27	5409582.92	272.50	0	DEN	A	71.9	19.7	0.0	0.0	0.0	81.5	10.4	-0.1	0.8	0.0	6.5	0.0	0.0	-7.5
5934	426703.70	5410166.27	393.25	0	DEN	A	71.9	19.4	0.0	0.0	0.0	81.4	10.3	-0.1	0.9	0.0	3.9	0.0	0.0	-5.1
5945	425424.74	5409489.19	274.26	0	DEN	A	71.9	19.0	0.0	0.0	0.0	81.2	10.2	-0.1	0.6	0.0	20.2	0.0	0.0	-21.2
5973	425477.98	5409587.36	272.50	0	DEN	A	71.9	18.8	0.0	0.0	0.0	81.4	10.3	-0.1	0.8	0.0	6.5	0.0	0.0	-8.1
5990	426261.44	5409555.18	360.19	0	DEN	A	71.9	17.2	0.0	0.0	0.0	80.1	9.4	-0.3	0.9	0.0	4.1	0.0	0.0	-5.0
6060	425370.05	5409523.95	272.50	0	DEN	A	71.9	17.2	0.0	0.0	0.0	81.4	10.3	-0.1	0.6	0.0	15.8	0.0	0.0	-18.9
6074	426655.98	5410121.94	389.96	0	DEN	A	71.9	16.6	0.0	0.0	0.0	81.3	10.2	-0.1	0.9	0.0	3.9	0.0	0.0	-7.6
6142	425350.52	5409557.70	272.50	0	DEN	A	71.9	15.0	0.0	0.0	0.0	81.5	10.4	-0.1	0.7	0.0	10.7	0.0	0.0	-16.3

Line Source, ISO 9613, Name: "LD4 Aggregate Pit Truck Route", ID: "LD4_TR"																				
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)
5512	423198.10	5411877.59	359.35	0	DEN	A	73.7	29.1	0.0	0.0	0.0	87.3	9.1	0.4	0.0	0.0	3.1	0.0	0.0	2.8
5550	423595.43	5410813.66	360.92	0	DEN	A	73.7	26.8	0.0	0.0	0.0	85.7	8.1	0.6	0.3	0.0	7.5	0.0	0.0	-1.8
5572	423663.44	5411614.67	357.86	0	DEN	A	73.7	27.0	0.0	0.0	0.0	86.6	8.6	0.5	0.0	0.0	3.1	0.0	0.0	1.8
5589	423224.87	5410573.58	356.47	0	DEN	A	73.7	26.4	0.0	0.0	0.0	85.9	8.2	0.6	0.0	0.0	3.1	0.0	0.0	2.2
5630	422537.17	5412047.57	361.50	0	DEN	A	73.7	27.8	0.0	0.0	0.0	88.0	9.6	0.3	0.0	0.0	3.2	0.0	0.0	0.4
5671	423779.11	5411211.95	357.98	0	DEN	A	73.7	25.3	0.0	0.0	0.0	86.0	8.3	0.6	0.0	0.0	3.1	0.0	0.0	1.0
5846	421882.84	5412552.36	365.03	0	DEN	A	73.7	26.0	0.0	0.0	0.0	88.9	10.2	0.2	0.0	0.0	3.2	0.0	0.0	-2.9
5874	422173.01	5412338.89	363.11	0	DEN	A	73.7	25.5	0.0	0.0	0.0	88.5	10.0	0.2	0.0	0.0	3.2	0.0	0.0	-2.8
6079	423846.06	5411016.09	358.48	0	DEN	A	73.7	19.0	0.0	0.0	0.0	85.7	8.1	0.6	0.5	0.0	3.1	0.0	0.0	-5.4
6145	423839.64	5410910.06	360.92	0	DEN	A	73.7	17.2	0.0	0.0	0.0	85.6	8.0	0.6	0.5	0.0	3.1	0.0	0.0	-7.0
6150	423858.92	5410953.97	358.50	0	DEN	A	73.7	17.1	0.0	0.0	0.0	85.6	8.1	0.6	0.5	0.0	3.1	0.0	0.0	-7.2

Line Source, ISO 9613, Name: "Motor Grader Route NPAG", ID: "MGR_NPAG"																				
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)
5579	423588.85	5410425.47	357.07	0	DEN	A	71.1	28.0	0.0	0.0	0.0	85.3	10.4	0.7	0.6	0.0	3.3	0.0	0.0	-1.1
5634	424652.81	5409852.25	356.25	0	DEN	A	71.1	25.4	0.0	0.0	0.0	83.1	9.0	0.4	0.8	0.0	0.0	0.0	0.0	3.2
5644	425588.15	5409327.40	337.43	0	DEN	A	71.1	22.8	0.0	0.0	0.0	80.6	7.5	0.1	0.5	0.0	12.1	0.0	0.0	-6.9
5673	423851.17	5410040.27	357.25	0	DEN	A	71.1	26.3	0.0	0.0	0.0	84.5	9.9	0.6	0.3	0.0	12.2	0.0	0.0	-10.1
5716	424211.06	5409812.83	355.70	0	DEN	A	71.1	25.0	0.0	0.0	0.0	83.7	9.4	0.5	0.6	0.0	3.4	0.0	0.0	-1.5
5741	425302.99	5409338.96	355.91	0	DEN	A	71.1	22.1	0.0	0.0	0.0	81.1	7.8	0.2	0.7	0.0	3.7	0.0	0.0	-0.4
5753	424825.01	5409635.22	356.44	0	DEN	A	71.1	23.3	0.0	0.0	0.0	82.5	8.6	0.3	0.8	0.0	0.0	0.0	0.0	2.2
5791	425736.85	5409358.23	326.08	0	DEN	A	71.1	20.7	0.0	0.0	0.0	80.4	7.4	0.1	0.5	0.0	9.5	0.0	0.0	-6.1
5799	423963.76	5409775.36	360.34	0	DEN	A	71.1	24.0	0.0	0.0	0.0	84.0	9.6	0.5	0.6	0.0	3.4	0.0	0.0	-3.0
5810	424448.65	5409947.94	354.25	0	DEN	A	71.1	23.6	0.0	0.0	0.0	83.5	9.3	0.5	0.6	0.0	3.5	0.0	0.0	-2.6
5824	425041.75	5409441.14	354.52	0	DEN	A	71.1	21.6	0.0	0.0	0.0	81.8	8.2	0.3	0.7	0.0	3.6	0.0	0.0	-1.9
5828	425162.00	5409375.86	355.46	0	DEN	A	71.1	21.2	0.0	0.0	0.0	81.5	8.0	0.2	0.7	0.0	3.7	0.0	0.0	-1.7
5839	425438.48	5409321.87	351.31	0	DEN	A	71.1	20.5	0.0	0.0	0.0	80.9	7.7	0.1	0.7	0.0	3.7	0.0	0.0	-1.5
5947	424941.20	5409521.32	355.47	0	DEN	A	71.1	20.6	0.0	0.0	0.0	82.1	8.4	0.3	0.7	0.0	3.6	0.0	0.0	-3.4
6081	425790.31	5409416.47	324.40	0	DEN	A	71.1	16.2	0.0	0.0	0.0	80.5	7.5	0.1	0.7	0.0	3.8	0.0	0.0	-5.2
6154	425799.18	5409391.28	324.50	0	DEN	A	71.1	14.3	0.0	0.0	0.0	80.4	7.4	0.1	0.7	0.0	3.9	0.0	0.0	-7.2

Line Source, ISO 9613, Name: "EO Aggregate Pit Truck Route", ID: "EO_TR"																				
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)
5484	428105.04	5409564.14	373.36	0	DEN	A	69.4	26.5	0.0	0.0	0.0	79.6	5.1	0.6	0.8	0.0	3.3	0.0	0.0	6.5
5529	427735.51	5409493.45	379.10	0	DEN	A	69.4	25.1	0.0	0.0	0.0	79.2	4.9	0.5	0.9	0.0	0.0	0.0	0.0	9.0
5536	427179.61	5409478.46	394.62	0	DEN	A	69.4	24.8	0.0	0.0	0.0	79.1	4.9	0.5	0.9	0.0	0.0	0.0	0.0	8.9
5584	427452.74	5409495.59	390.75	0	DEN	A	69.4	23.9	0.0	0.0	0.0	79.1	4.9	0.5	0.9	0.0	0.0	0.0	0.0	7.8
5607	426038.92	5409390.64	335.11	0	DEN	A	69.4	24.3	0.0	0.0	0.0	80.0	5.3	0.6	0.6	0.0	12.5	0.0	0.0	-5.3
5642	426932.32	5409512.59	385.21	0	DEN	A	69.4	23.3	0.0	0.0	0.0	79.3	5.0	0.5	0.8	0.0	3.4	0.0	0.0	3.6
5645	426435.00	5409603.38	373.36	0	DEN	A	69.4	23.9	0.0	0.0	0.0	80.1	5.3	0.6	0.7	0.0	0.0	0.0	0.0	6.7

Sample Calculations

Line Source, ISO 9613, Name: "EO Aggregate Pit Truck Route", ID: "EO_TR"																				
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)
5699	425792.43	5409363.59	326.46	0	DEN	A	69.4	23.7	0.0	0.0	0.0	80.3	5.4	0.6	0.5	0.0	7.3	0.0	0.0	-1.0
5731	424859.74	5409603.46	356.03	0	DEN	A	69.4	24.9	0.0	0.0	0.0	82.4	6.3	0.6	0.6	0.0	3.2	0.0	0.0	1.1
5768	426642.31	5409616.20	380.50	0	DEN	A	69.4	22.4	0.0	0.0	0.0	79.9	5.2	0.6	0.7	0.0	3.3	0.0	0.0	2.1
5774	425585.85	5409327.03	337.73	0	DEN	A	69.4	22.8	0.0	0.0	0.0	80.6	5.5	0.6	0.4	0.0	10.4	0.0	0.0	-5.4
5786	423199.78	5411875.06	359.16	0	DEN	A	69.4	29.0	0.0	0.0	0.0	87.3	9.1	0.4	0.0	0.0	3.1	0.0	0.0	-1.5
5796	424426.43	5410109.22	356.23	0	DEN	A	69.4	25.4	0.0	0.0	0.0	83.8	7.0	0.6	0.6	0.0	0.0	0.0	0.0	2.8
5822	423948.39	5410776.29	359.04	0	DEN	A	69.4	26.6	0.0	0.0	0.0	85.3	7.9	0.6	0.5	0.0	3.1	0.0	0.0	-1.4
5860	426797.33	5409607.09	381.33	0	DEN	A	69.4	21.0	0.0	0.0	0.0	79.7	5.1	0.6	0.7	0.0	3.3	0.0	0.0	0.9
5879	425309.13	5409338.51	356.04	0	DEN	A	69.4	22.0	0.0	0.0	0.0	81.1	5.7	0.6	0.7	0.0	3.3	0.0	0.0	-0.0
5908	423662.25	5411616.62	357.86	0	DEN	A	69.4	27.0	0.0	0.0	0.0	86.6	8.6	0.5	0.0	0.0	3.1	0.0	0.0	-2.4
5935	425035.40	5409445.48	355.03	0	DEN	A	69.4	22.1	0.0	0.0	0.0	81.8	6.0	0.6	0.7	0.0	3.3	0.0	0.0	-0.8
5941	424113.03	5410432.85	359.04	0	DEN	A	69.4	24.8	0.0	0.0	0.0	84.7	7.5	0.6	0.6	0.0	0.0	0.0	0.0	0.9
5959	422538.38	5412043.38	361.30	0	DEN	A	69.4	27.8	0.0	0.0	0.0	88.0	9.6	0.3	0.0	0.0	3.2	0.0	0.0	-3.8
5970	425166.31	5409373.36	355.50	0	DEN	A	69.4	21.4	0.0	0.0	0.0	81.4	5.9	0.6	0.7	0.0	3.3	0.0	0.0	-1.1
5988	426199.13	5409423.64	349.76	0	DEN	A	69.4	19.5	0.0	0.0	0.0	79.8	5.2	0.6	0.8	0.0	4.2	0.0	0.0	-1.7
5996	424701.04	5409782.55	355.50	0	DEN	A	69.4	22.3	0.0	0.0	0.0	82.9	6.6	0.6	0.6	0.0	3.2	0.0	0.0	-2.3
6000	425439.62	5409323.21	351.51	0	DEN	A	69.4	20.3	0.0	0.0	0.0	80.9	5.6	0.6	0.7	0.0	3.3	0.0	0.0	-1.4
6016	424604.21	5409922.56	355.23	0	DEN	A	69.4	22.3	0.0	0.0	0.0	83.3	6.8	0.6	0.6	0.0	3.2	0.0	0.0	-2.8
6025	426236.11	5409496.00	356.95	0	DEN	A	69.4	18.9	0.0	0.0	0.0	80.0	5.3	0.6	0.7	0.0	3.3	0.0	0.0	-1.5
6054	423814.06	5411112.67	358.10	0	DEN	A	69.4	24.3	0.0	0.0	0.0	85.8	8.2	0.6	0.0	0.0	3.1	0.0	0.0	-4.1
6100	422167.72	5412339.23	363.20	0	DEN	A	69.4	25.6	0.0	0.0	0.0	88.6	10.0	0.2	0.0	0.0	3.2	0.0	0.0	-7.0
6102	426261.40	5409555.40	360.35	0	DEN	A	69.4	17.3	0.0	0.0	0.0	80.1	5.3	0.6	0.7	0.0	3.3	0.0	0.0	-3.4
6108	421879.42	5412552.90	365.12	0	DEN	A	69.4	25.9	0.0	0.0	0.0	89.0	10.2	0.2	0.0	0.0	3.2	0.0	0.0	-7.3
6112	424241.91	5410262.81	357.50	0	DEN	A	69.4	21.2	0.0	0.0	0.0	84.3	7.3	0.6	0.6	0.0	0.0	0.0	0.0	-2.1
6118	426294.34	5409594.72	364.62	0	DEN	A	69.4	17.0	0.0	0.0	0.0	80.2	5.3	0.6	0.5	0.0	7.1	0.0	0.0	-7.3
6152	426742.17	5409646.73	382.09	0	DEN	A	69.4	15.5	0.0	0.0	0.0	79.9	5.2	0.6	0.7	0.0	3.3	0.0	0.0	-4.8
6158	423747.65	5411306.00	357.60	0	DEN	A	69.4	21.5	0.0	0.0	0.0	86.1	8.4	0.5	0.0	0.0	3.1	0.0	0.0	-7.2

Line Source, ISO 9613, Name: "Truck Route-NPAG (Empty Truck)", ID: "TRE_NPAG"																				
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)
5564	423589.38	5410424.95	357.09	0	DEN	A	71.4	28.0	0.0	0.0	0.0	85.3	8.1	-0.2	0.3	0.0	3.5	0.0	0.0	2.4
5581	424862.12	5409602.31	356.00	0	DEN	A	71.4	24.9	0.0	0.0	0.0	82.4	6.6	-0.2	0.5	0.0	3.6	0.0	0.0	3.4
5592	425632.16	5409578.97	272.50	0	DEN	A	71.4	23.6	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	1.2
5600	424652.84	5409852.46	356.25	0	DEN	A	71.4	25.4	0.0	0.0	0.0	83.1	7.0	-0.2	0.5	0.0	0.0	0.0	0.0	6.3
5608	425556.47	5409447.71	294.40	0	DEN	A	71.4	23.2	0.0	0.0	0.0	80.9	6.0	-0.2	0.2	0.0	12.4	0.0	0.0	-4.8
5640	425590.88	5409327.62	337.15	0	DEN	A	71.4	22.6	0.0	0.0	0.0	80.6	5.8	-0.2	0.2	0.0	10.5	0.0	0.0	-3.0
5652	423851.43	5410040.49	357.26	0	DEN	A	71.4	26.3	0.0	0.0	0.0	84.5	7.7	-0.2	0.1	0.0	11.0	0.0	0.0	-5.5
5712	424210.84	5409812.70	355.71	0	DEN	A	71.4	25.0	0.0	0.0	0.0	83.7	7.3	-0.2	0.4	0.0	3.5	0.0	0.0	1.7
5718	425310.42	5409335.82	355.91	0	DEN	A	71.4	22.1	0.0	0.0	0.0	81.1	6.1	-0.2	0.5	0.0	3.6	0.0	0.0	2.3
5764	425039.36	5409442.94	355.00	0	DEN	A	71.4	22.2	0.0	0.0	0.0	81.8	6.4	-0.2	0.5	0.0	3.6	0.0	0.0	1.5
5773	425736.90	5409358.02	326.06	0	DEN	A	71.4	20.7	0.0	0.0	0.0	80.4	5.8	-0.2	0.3	0.0	8.2	0.0	0.0	-2.3
5782	425715.39	5409425.73	319.04	0	DEN	A	71.4	20.8	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	1.5
5784	423963.84	5409775.37	360.36	0	DEN	A	71.4	24.0	0.0	0.0	0.0	84.0	7.4	-0.2	0.4	0.0	3.5	0.0	0.0	0.2
5788	424448.71	5409947.88	354.25	0	DEN	A	71.4	23.6	0.0	0.0	0.0	83.5	7.2	-0.2	0.4	0.0	3.5	0.0	0.0	0.5
5806	425168.16	5409370.27	355.50	0	DEN	A	71.4	21.3	0.0	0.0	0.0	81.4	6.2	-0.2	0.5	0.0	3.6	0.0	0.0	1.0
5825	425444.91	5409321.30	351.00	0	DEN	A	71.4	20.4	0.0	0.0	0.0	80.8	6.0	-0.2	0.5	0.0	3.6	0.0	0.0	1.0
5972	425395.34	5409583.21	272.50	0	DEN	A	71.4	19.5	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.1
5991	425422.22	5409491.23	273.76	0	DEN	A	71.4	18.9	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.2	0.0	0.0	-13.4
5994	425478.06	5409587.36	272.50	0	DEN	A	71.4	18.9	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.6
6076	425790.28	5409416.53	324.40	0	DEN	A	71.4	16.2	0.0	0.0	0.0	80.5	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	-2.7
6077	425369.34	5409525.41	272.50	0	DEN	A	71.4	17.0	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.1	0.0	0.0	-11.3
6146	425799.09	5409391.23	324.50	0	DEN	A	71.4	14.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.8	0.0	0.0	-4.6
6159	425351.11	5409558.34	272.50	0	DEN	A	71.4	15.0	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-9.5

Line Source, ISO 9613, Name: "Motor Grader Route Open Pit to Mill", ID: "MGR_OPMill"																				
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)
5518	426040.12	5409390.47	335.25	0	DEN	A	71.1	24.2	0.0	0.0	0.0	80.0	7.2	0.1	0.7	0.0	14.5	0.0	0.0	-7.2
5612	425632.28	5409578.86	272.50	0	DEN	A	71.1	23.6	0.0	0.0	0.0	81.1	7.8	0.2	0.6	0.0	7.6	0.0	0.0	-2.4
5614	426345.87	5409644.29	366.78	0	DEN	A	71.1	22.9	0.0	0.0	0.0	80.3	7.4	0.1	0.7	0.0	3.8	0.0	0.0	1.7
5632	426538.83	5409923.32	385.70	0	DEN	A	71.1	23.3	0.0	0.0	0.0	80.8	7.7	0.1	0.8	0.0	0.0	0.0	0.0	4.9
5635	425561.17	5409447.20	295.36	0	DEN	A	71.1	23.2	0.0	0.0	0.0	80.9	7.7	0.2	0.4	0.0	14.2	0.0	0.0	-9.1

Sample Calculations

Line Source, ISO 9613, Name: "Motor Grader Route Open Pit to Mill", ID: "MGR_OPMill"																				
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)
5736	425842.66	5409411.08	324.85	0	DEN	A	71.1	21.3	0.0	0.0	0.0	80.4	7.4	0.1	0.7	0.0	3.8	0.0	0.0	0.0
5749	426451.31	5409770.81	376.37	0	DEN	A	71.1	21.4	0.0	0.0	0.0	80.5	7.5	0.1	0.8	0.0	0.0	0.0	0.0	3.6
5809	425718.94	5409425.59	319.45	0	DEN	A	71.1	20.7	0.0	0.0	0.0	80.6	7.5	0.1	0.7	0.0	4.0	0.0	0.0	-1.1
5862	426198.86	5409424.30	349.80	0	DEN	A	71.1	19.5	0.0	0.0	0.0	79.9	7.1	0.0	0.9	0.0	4.9	0.0	0.0	-2.1
5912	426616.94	5410059.66	390.65	0	DEN	A	71.1	20.0	0.0	0.0	0.0	81.1	7.8	0.2	0.7	0.0	3.7	0.0	0.0	-2.4
5919	426236.26	5409496.49	356.92	0	DEN	A	71.1	18.8	0.0	0.0	0.0	80.0	7.2	0.1	0.8	0.0	3.8	0.0	0.0	-1.9
5979	425395.38	5409583.21	272.50	0	DEN	A	71.1	19.5	0.0	0.0	0.0	81.5	8.0	0.2	0.6	0.0	5.7	0.0	0.0	-5.4
5983	426703.70	5410166.27	393.25	0	DEN	A	71.1	19.4	0.0	0.0	0.0	81.4	8.0	0.2	0.7	0.0	3.7	0.0	0.0	-3.5
5987	425424.53	5409489.89	274.41	0	DEN	A	71.1	19.1	0.0	0.0	0.0	81.2	7.9	0.2	0.4	0.0	18.3	0.0	0.0	-17.8
6009	425478.21	5409587.42	272.50	0	DEN	A	71.1	18.9	0.0	0.0	0.0	81.4	7.9	0.2	0.6	0.0	5.7	0.0	0.0	-5.8
6048	426261.44	5409555.18	360.19	0	DEN	A	71.1	17.2	0.0	0.0	0.0	80.1	7.3	0.1	0.8	0.0	3.8	0.0	0.0	-3.7
6089	425369.19	5409524.43	272.50	0	DEN	A	71.1	17.1	0.0	0.0	0.0	81.4	8.0	0.2	0.4	0.0	14.1	0.0	0.0	-15.9
6110	426655.98	5410121.94	389.96	0	DEN	A	71.1	16.6	0.0	0.0	0.0	81.3	7.9	0.2	0.7	0.0	3.7	0.0	0.0	-6.1
6162	425351.20	5409558.11	272.50	0	DEN	A	71.1	15.0	0.0	0.0	0.0	81.5	8.0	0.2	0.5	0.0	9.3	0.0	0.0	-13.5

Line Source, ISO 9613, Name: "Truck Route-Overburden (Empty Truck)", ID: "TRE_OB"																				
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)
5525	424847.12	5410617.13	365.01	0	D	A	71.0	28.4	0.0	0.0	0.0	84.1	7.5	-0.2	0.4	0.0	0.0	0.0	0.0	7.7
5525	424847.12	5410617.13	365.01	0	N	A	71.0	28.4	0.0	0.0	0.0	84.1	7.5	-0.2	0.4	0.0	0.0	0.0	0.0	7.7
5525	424847.12	5410617.13	365.01	0	E	A	71.0	28.4	0.0	0.0	0.0	84.1	7.5	-0.2	0.4	0.0	0.0	0.0	0.0	7.7
5615	425631.51	5409579.05	272.50	0	D	A	71.0	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	0.9
5615	425631.51	5409579.05	272.50	0	N	A	71.0	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	0.9
5615	425631.51	5409579.05	272.50	0	E	A	71.0	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	0.9
5637	425555.68	5409447.77	294.14	0	D	A	71.0	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.2	0.0	12.5	0.0	0.0	-5.1
5637	425555.68	5409447.77	294.14	0	N	A	71.0	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.2	0.0	12.5	0.0	0.0	-5.1
5637	425555.68	5409447.77	294.14	0	E	A	71.0	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.2	0.0	12.5	0.0	0.0	-5.1
5665	425590.26	5409327.63	337.22	0	D	A	71.0	22.7	0.0	0.0	0.0	80.6	5.8	-0.2	0.2	0.0	10.4	0.0	0.0	-3.2
5665	425590.26	5409327.63	337.22	0	N	A	71.0	22.7	0.0	0.0	0.0	80.6	5.8	-0.2	0.2	0.0	10.4	0.0	0.0	-3.2
5665	425590.26	5409327.63	337.22	0	E	A	71.0	22.7	0.0	0.0	0.0	80.6	5.8	-0.2	0.2	0.0	10.4	0.0	0.0	-3.2
5692	424426.85	5410109.31	356.24	0	D	A	71.0	25.4	0.0	0.0	0.0	83.8	7.3	-0.2	0.4	0.0	0.0	0.0	0.0	5.1
5692	424426.85	5410109.31	356.24	0	N	A	71.0	25.4	0.0	0.0	0.0	83.8	7.3	-0.2	0.4	0.0	0.0	0.0	0.0	5.1
5692	424426.85	5410109.31	356.24	0	E	A	71.0	25.4	0.0	0.0	0.0	83.8	7.3	-0.2	0.4	0.0	0.0	0.0	0.0	5.1
5732	424411.86	5410356.31	359.55	0	D	A	71.0	25.4	0.0	0.0	0.0	84.2	7.5	-0.2	0.4	0.0	3.5	0.0	0.0	1.1
5732	424411.86	5410356.31	359.55	0	N	A	71.0	25.4	0.0	0.0	0.0	84.2	7.5	-0.2	0.4	0.0	3.5	0.0	0.0	1.1
5732	424411.86	5410356.31	359.55	0	E	A	71.0	25.4	0.0	0.0	0.0	84.2	7.5	-0.2	0.4	0.0	3.5	0.0	0.0	1.1
5755	425307.41	5409338.58	355.98	0	D	A	71.0	22.0	0.0	0.0	0.0	81.1	6.1	-0.2	0.5	0.0	3.6	0.0	0.0	1.9
5755	425307.41	5409338.58	355.98	0	N	A	71.0	22.0	0.0	0.0	0.0	81.1	6.1	-0.2	0.5	0.0	3.6	0.0	0.0	1.9
5755	425307.41	5409338.58	355.98	0	E	A	71.0	22.0	0.0	0.0	0.0	81.1	6.1	-0.2	0.5	0.0	3.6	0.0	0.0	1.9
5762	424825.15	5409635.14	356.44	0	D	A	71.0	23.2	0.0	0.0	0.0	82.5	6.7	-0.2	0.5	0.0	0.0	0.0	0.0	4.7
5762	424825.15	5409635.14	356.44	0	N	A	71.0	23.2	0.0	0.0	0.0	82.5	6.7	-0.2	0.5	0.0	0.0	0.0	0.0	4.7
5762	424825.15	5409635.14	356.44	0	E	A	71.0	23.2	0.0	0.0	0.0	82.5	6.7	-0.2	0.5	0.0	0.0	0.0	0.0	4.7
5767	424625.17	5409892.14	355.24	0	D	A	71.0	23.9	0.0	0.0	0.0	83.2	7.0	-0.2	0.4	0.0	3.5	0.0	0.0	0.9
5767	424625.17	5409892.14	355.24	0	N	A	71.0	23.9	0.0	0.0	0.0	83.2	7.0	-0.2	0.4	0.0	3.5	0.0	0.0	0.9
5767	424625.17	5409892.14	355.24	0	E	A	71.0	23.9	0.0	0.0	0.0	83.2	7.0	-0.2	0.4	0.0	3.5	0.0	0.0	0.9
5794	425736.91	5409358.26	326.07	0	D	A	71.0	20.7	0.0	0.0	0.0	80.4	5.8	-0.2	0.3	0.0	8.1	0.0	0.0	-2.6
5794	425736.91	5409358.26	326.07	0	N	A	71.0	20.7	0.0	0.0	0.0	80.4	5.8	-0.2	0.3	0.0	8.1	0.0	0.0	-2.6
5794	425736.91	5409358.26	326.07	0	E	A	71.0	20.7	0.0	0.0	0.0	80.4	5.8	-0.2	0.3	0.0	8.1	0.0	0.0	-2.6
5813	425715.66	5409425.93	319.06	0	D	A	71.0	20.7	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	1.2
5813	425715.66	5409425.93	319.06	0	N	A	71.0	20.7	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	1.2
5813	425715.66	5409425.93	319.06	0	E	A	71.0	20.7	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	1.2
5829	425046.70	5409438.38	354.50	0	D	A	71.0	21.6	0.0	0.0	0.0	81.8	6.4	-0.2	0.5	0.0	3.6	0.0	0.0	0.6
5829	425046.70	5409438.38	354.50	0	N	A	71.0	21.6	0.0	0.0	0.0	81.8	6.4	-0.2	0.5	0.0	3.6	0.0	0.0	0.6
5829	425046.70	5409438.38	354.50	0	E	A	71.0	21.6	0.0	0.0	0.0	81.8	6.4	-0.2	0.5	0.0	3.6	0.0	0.0	0.6
5838	425167.03	5409374.35	355.50	0	D	A	71.0	21.2	0.0	0.0	0.0	81.4	6.2	-0.2	0.5	0.0	3.6	0.0	0.0	0.6
5838	425167.03	5409374.35	355.50	0	N	A	71.0	21.2	0.0	0.0	0.0	81.4	6.2	-0.2	0.5	0.0	3.6	0.0	0.0	0.6
5838	425167.03	5409374.35	355.50	0	E	A	71.0	21.2	0.0	0.0	0.0	81.4	6.2	-0.2	0.5	0.0	3.6	0.0	0.0	0.6
5864	425442.63	5409322.08	351.13	0	D	A	71.0	20.5	0.0	0.0	0.0	80.8	6.0	-0.2	0.5	0.0	3.6	0.0	0.0	0.8
5864	425442.63	5409322.08	351.13	0	N	A	71.0	20.5	0.0	0.0	0.0	80.8	6.0	-0.2	0.5	0.0	3.6	0.0	0.0	0.8
5864	425442.63	5409322.08	351.13	0	E	A	71.0	20.5	0.0	0.0	0.0	80.8	6.0	-0.2	0.5	0.0	3.6	0.0	0.0	0.8
5936	424943.07	5409519.90	355.44	0	D	A	71.0	20.8	0.0	0.0	0.0	82.1	6.5	-0.2	0.5	0.0	3.6	0.0	0.0	-0.7
5936	424943.07	5409519.90	355.44	0	N	A	71.0	20.8	0.0	0.0	0.0	82.1	6.5	-0.2	0.5	0.0	3.6	0.0	0.0	-0.7
5936	424943.07	5409519.90	355.44	0	E	A	71.0	20.8	0.0	0.0	0.0	82.1	6.5	-0.2	0.5	0.0	3.6	0.0	0.0	-0.7

Sample Calculations

Line Source, ISO 9613, Name: "Truck Route-Overburden (Empty Truck)", ID: "TRE_OB"																				
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)
5985	425394.30	5409583.13	272.50	0	D	A	71.0	19.5	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.5
5985	425394.30	5409583.13	272.50	0	N	A	71.0	19.5	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.5
5985	425394.30	5409583.13	272.50	0	E	A	71.0	19.5	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.5
6011	425476.38	5409587.61	272.50	0	D	A	71.0	18.9	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.9
6011	425476.38	5409587.61	272.50	0	N	A	71.0	18.9	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.9
6011	425476.38	5409587.61	272.50	0	E	A	71.0	18.9	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-2.9
6014	425420.93	5409490.49	273.48	0	D	A	71.0	18.7	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.5	0.0	0.0	-14.1
6014	425420.93	5409490.49	273.48	0	N	A	71.0	18.7	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.5	0.0	0.0	-14.1
6014	425420.93	5409490.49	273.48	0	E	A	71.0	18.7	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.5	0.0	0.0	-14.1
6046	424722.88	5409750.81	355.50	0	D	A	71.0	20.0	0.0	0.0	0.0	82.8	6.9	-0.2	0.4	0.0	3.5	0.0	0.0	-2.5
6046	424722.88	5409750.81	355.50	0	N	A	71.0	20.0	0.0	0.0	0.0	82.8	6.9	-0.2	0.4	0.0	3.5	0.0	0.0	-2.5
6046	424722.88	5409750.81	355.50	0	E	A	71.0	20.0	0.0	0.0	0.0	82.8	6.9	-0.2	0.4	0.0	3.5	0.0	0.0	-2.5
6086	425790.23	5409416.55	324.40	0	D	A	71.0	16.2	0.0	0.0	0.0	80.5	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	-3.0
6086	425790.23	5409416.55	324.40	0	N	A	71.0	16.2	0.0	0.0	0.0	80.5	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	-3.0
6086	425790.23	5409416.55	324.40	0	E	A	71.0	16.2	0.0	0.0	0.0	80.5	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	-3.0
6090	425369.34	5409524.48	272.50	0	D	A	71.0	17.0	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.2	0.0	0.0	-11.8
6090	425369.34	5409524.48	272.50	0	N	A	71.0	17.0	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.2	0.0	0.0	-11.8
6090	425369.34	5409524.48	272.50	0	E	A	71.0	17.0	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.2	0.0	0.0	-11.8
6157	425799.05	5409391.27	324.50	0	D	A	71.0	14.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.8	0.0	0.0	-4.9
6157	425799.05	5409391.27	324.50	0	N	A	71.0	14.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.8	0.0	0.0	-4.9
6157	425799.05	5409391.27	324.50	0	E	A	71.0	14.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.8	0.0	0.0	-4.9
6163	425350.90	5409558.06	272.50	0	D	A	71.0	15.0	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-9.8
6163	425350.90	5409558.06	272.50	0	N	A	71.0	15.0	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-9.8
6163	425350.90	5409558.06	272.50	0	E	A	71.0	15.0	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-9.8

Line Source, ISO 9613, Name: "OC3 Aggregate Pit Truck Route", ID: "OC3_TR"																				
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)
5638	428074.24	5409670.23	374.16	0	DEN	A	66.4	26.7	0.0	0.0	0.0	79.9	5.2	0.6	0.7	0.0	6.1	0.0	0.0	0.6
5714	428414.53	5409951.17	375.07	0	DEN	A	66.4	26.6	0.0	0.0	0.0	81.0	5.7	0.6	0.7	0.0	0.0	0.0	0.0	5.0
6167	428555.99	5410180.09	376.07	0	DEN	A	66.4	19.4	0.0	0.0	0.0	81.7	6.0	0.6	0.7	0.0	3.3	0.0	0.0	-6.4

Line Source, ISO 9613, Name: "Water Truck Route Stockpile", ID: "WTR_SP"																				
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)
5451	427525.13	5409591.57	387.26	0	DEN	A	71.9	25.7	0.0	0.0	0.0	79.4	8.9	-0.4	0.9	0.0	15.7	0.0	0.0	-6.9
5506	426435.67	5409603.46	373.34	0	DEN	A	71.9	23.9	0.0	0.0	0.0	80.1	9.4	-0.3	0.9	0.0	0.0	0.0	0.0	5.8
5569	426643.41	5409615.78	380.58	0	DEN	A	71.9	22.4	0.0	0.0	0.0	79.9	9.2	-0.3	0.9	0.0	4.1	0.0	0.0	0.6
5583	426799.68	5409678.92	385.50	0	DEN	A	71.9	22.2	0.0	0.0	0.0	80.0	9.3	-0.3	0.9	0.0	4.1	0.0	0.0	0.3
5639	427068.74	5409750.73	394.26	0	DEN	A	71.9	21.6	0.0	0.0	0.0	80.0	9.3	-0.3	0.9	0.0	0.0	0.0	0.0	3.6
5687	426936.24	5409723.09	390.54	0	DEN	A	71.9	21.1	0.0	0.0	0.0	80.0	9.3	-0.3	0.9	0.0	0.0	0.0	0.0	3.1
5734	427267.00	5409718.30	394.50	0	DEN	A	71.9	20.0	0.0	0.0	0.0	79.9	9.2	-0.3	0.9	0.0	4.5	0.0	0.0	-2.2
5834	427176.72	5409781.97	393.22	0	DEN	A	71.9	19.1	0.0	0.0	0.0	80.1	9.4	-0.3	0.9	0.0	4.1	0.0	0.0	-3.1
6045	427324.32	5409616.81	399.02	0	DEN	A	71.9	15.9	0.0	0.0	0.0	79.5	9.0	-0.4	1.0	0.0	4.1	0.0	0.0	-5.4
6087	427299.54	5409638.56	398.79	0	DEN	A	71.9	14.5	0.0	0.0	0.0	79.6	9.0	-0.4	0.9	0.0	0.0	0.0	0.0	-2.8
6091	427231.00	5409784.30	390.50	0	DEN	A	71.9	14.8	0.0	0.0	0.0	80.1	9.4	-0.3	0.9	0.0	4.1	0.0	0.0	-7.4
6133	427285.54	5409659.63	398.79	0	DEN	A	71.9	13.6	0.0	0.0	0.0	79.7	9.1	-0.4	0.9	0.0	0.0	0.0	0.0	-3.8
6172	427249.55	5409773.60	390.50	0	DEN	A	71.9	12.0	0.0	0.0	0.0	80.0	9.3	-0.3	0.9	0.0	4.1	0.0	0.0	-10.1

Line Source, ISO 9613, Name: "Motor Grader Route Stockpile", ID: "MGR_SP"																				
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)
5475	427525.13	5409591.57	387.26	0	DEN	A	71.1	25.7	0.0	0.0	0.0	79.4	6.9	0.0	0.7	0.0	13.9	0.0	0.0	-4.1
5539	426435.67	5409603.46	373.34	0	DEN	A	71.1	23.9	0.0	0.0	0.0	80.1	7.2	0.1	0.8	0.0	0.0	0.0	0.0	6.9
5636	426643.41	5409615.78	380.58	0	DEN	A	71.1	22.4	0.0	0.0	0.0	79.9	7.2	0.0	0.8	0.0	3.8	0.0	0.0	1.9
5643	426799.68	5409678.92	385.50	0	DEN	A	71.1	22.2	0.0	0.0	0.0	80.0	7.2	0.1	0.8	0.0	3.8	0.0	0.0	1.6
5706	427068.88	5409751.09	394.16	0	DEN	A	71.1	21.7	0.0	0.0	0.0	80.0	7.2	0.1	0.8	0.0	3.8	0.0	0.0	0.9
5739	426936.03	5409722.77	390.52	0	DEN	A	71.1	21.1	0.0	0.0	0.0	80.0	7.2	0.1	0.8	0.0	0.0	0.0	0.0	4.1
5792	427267.00	5409718.30	394.50	0	DEN	A	71.1	20.0	0.0	0.0	0.0	79.9	7.1	0.0	0.7	0.0	4.1	0.0	0.0	-0.8
5915	427177.06	5409782.65	393.14	0	DEN	A	71.1	19.0	0.0	0.0	0.0	80.1	7.3	0.1	0.8	0.0	3.8	0.0	0.0	-1.8
6066	427324.32	5409616.81	399.02	0	DEN	A	71.1	15.9	0.0	0.0	0.0	79.5	7.0	0.0	0.9	0.0	3.8	0.0	0.0	-4.2
6129	427299.54	5409638.56	398.79	0	DEN	A	71.1	14.5	0.0	0.0	0.0	79.6	7.0	0.0	0.8	0.0	0.0	0.0	0.0	-1.9
6137	427231.00	5409784.30	390.50	0	DEN	A	71.1	14.8	0.0	0.0	0.0	80.1	7.3	0.1	0.8	0.0	3.8	0.0	0.0	-6.1

Sample Calculations

Line Source, ISO 9613, Name: "Motor Grader Route Stockpile", ID: "MGR_SP"																				
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)
6151	427285.54	5409659.63	398.79	0	DEN	A	71.1	13.6	0.0	0.0	0.0	79.7	7.0	0.0	0.8	0.0	0.0	0.0	0.0	-2.9
6185	427249.55	5409773.60	390.50	0	DEN	A	71.1	12.0	0.0	0.0	0.0	80.0	7.2	0.1	0.8	0.0	3.8	0.0	0.0	-8.8

Line Source, ISO 9613, Name: "Truck Route Open Pit to Mill (Empty Truck)", ID: "TRE_OPMill"																				
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)
5703	426039.27	5409390.58	335.15	0	DEN	A	68.3	24.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	12.3	0.0	0.0	-5.7
5817	425631.53	5409578.99	272.50	0	DEN	A	68.3	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	-1.8
5826	426345.87	5409644.29	366.78	0	DEN	A	68.3	22.9	0.0	0.0	0.0	80.3	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	1.2
5832	426538.83	5409923.32	385.70	0	DEN	A	68.3	23.3	0.0	0.0	0.0	80.8	6.0	-0.2	0.6	0.0	0.0	0.0	0.0	4.5
5836	425559.43	5409446.22	295.04	0	DEN	A	68.3	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.2	0.0	12.5	0.0	0.0	-7.8
5974	425841.43	5409411.18	324.75	0	DEN	A	68.3	21.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	-0.5
5976	426451.31	5409770.81	376.37	0	DEN	A	68.3	21.4	0.0	0.0	0.0	80.5	5.8	-0.2	0.6	0.0	0.0	0.0	0.0	3.0
6018	425718.41	5409424.81	319.50	0	DEN	A	68.3	20.7	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	-1.5
6052	426198.89	5409424.31	349.80	0	DEN	A	68.3	19.5	0.0	0.0	0.0	79.9	5.5	-0.2	0.7	0.0	4.5	0.0	0.0	-2.5
6071	426616.94	5410059.66	390.65	0	DEN	A	68.3	20.0	0.0	0.0	0.0	81.1	6.1	-0.2	0.5	0.0	3.6	0.0	0.0	-2.8
6075	426236.26	5409496.49	356.92	0	DEN	A	68.3	18.8	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	-2.4
6113	425396.33	5409583.55	272.50	0	DEN	A	68.3	19.5	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-5.2
6115	426703.70	5410166.27	393.25	0	DEN	A	68.3	19.4	0.0	0.0	0.0	81.4	6.2	-0.2	0.5	0.0	3.6	0.0	0.0	-3.8
6119	425422.84	5409489.28	274.04	0	DEN	A	68.3	19.0	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.5	0.0	0.0	-16.6
6134	425477.27	5409587.88	272.50	0	DEN	A	68.3	18.8	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-5.7
6141	426261.44	5409555.18	360.19	0	DEN	A	68.3	17.2	0.0	0.0	0.0	80.1	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-4.2
6168	425368.73	5409523.74	272.50	0	DEN	A	68.3	17.1	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.4	0.0	0.0	-14.6
6174	426655.98	5410121.94	389.96	0	DEN	A	68.3	16.6	0.0	0.0	0.0	81.3	6.2	-0.2	0.5	0.0	3.6	0.0	0.0	-6.4
6188	425351.54	5409557.98	272.50	0	DEN	A	68.3	15.1	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-12.3

Line Source, ISO 9613, Name: "Truck Route Stockpile (Empty Truck)", ID: "TRE_SP"																				
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)
5604	427524.15	5409592.10	387.98	0	DEN	A	67.7	25.7	0.0	0.0	0.0	79.4	5.4	-0.2	0.6	0.0	9.5	0.0	0.0	-1.4
5748	426038.59	5409390.36	335.07	0	DEN	A	67.7	24.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	12.5	0.0	0.0	-6.6
5780	426432.91	5409603.33	373.37	0	DEN	A	67.7	23.8	0.0	0.0	0.0	80.1	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	5.4
5878	425631.13	5409578.50	272.50	0	DEN	A	67.7	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	-2.5
5897	425555.66	5409447.88	294.17	0	DEN	A	67.7	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.2	0.0	12.4	0.0	0.0	-8.4
5900	426638.34	5409616.36	380.50	0	DEN	A	67.7	22.4	0.0	0.0	0.0	79.9	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	0.6
5916	426796.68	5409678.62	385.50	0	DEN	A	67.7	22.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	0.4
5977	427069.33	5409751.17	394.11	0	DEN	A	67.7	21.7	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	-0.3
6007	426935.43	5409722.42	390.52	0	DEN	A	67.7	21.1	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	2.8
6010	425840.18	5409410.87	324.63	0	DEN	A	67.7	21.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	-1.2
6055	427267.01	5409719.16	394.50	0	DEN	A	67.7	20.0	0.0	0.0	0.0	79.9	5.5	-0.2	0.5	0.0	3.8	0.0	0.0	-1.9
6057	425715.96	5409425.31	319.13	0	DEN	A	67.7	20.8	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	-2.1
6069	426199.24	5409424.15	349.80	0	DEN	A	67.7	19.5	0.0	0.0	0.0	79.9	5.5	-0.2	0.7	0.0	4.5	0.0	0.0	-3.2
6093	426236.18	5409496.59	357.03	0	DEN	A	67.7	18.9	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	-3.1
6095	427177.51	5409782.91	393.09	0	DEN	A	67.7	19.0	0.0	0.0	0.0	80.1	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	-3.0
6139	425395.14	5409583.20	272.50	0	DEN	A	67.7	19.5	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-5.8
6144	425420.26	5409490.94	273.50	0	DEN	A	67.7	18.8	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.4	0.0	0.0	-17.3
6147	425476.61	5409587.11	272.50	0	DEN	A	67.7	18.8	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-6.4
6155	426261.76	5409556.01	360.53	0	DEN	A	67.7	17.4	0.0	0.0	0.0	80.1	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-4.7
6166	426294.77	5409595.16	364.77	0	DEN	A	67.7	16.9	0.0	0.0	0.0	80.2	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-5.3
6169	427324.82	5409616.26	399.04	0	DEN	A	67.7	15.9	0.0	0.0	0.0	79.5	5.4	-0.2	0.8	0.0	3.7	0.0	0.0	-5.6
6178	425368.17	5409525.22	272.50	0	DEN	A	67.7	17.1	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.1	0.0	0.0	-15.0
6186	427298.96	5409639.05	398.83	0	DEN	A	67.7	14.9	0.0	0.0	0.0	79.6	5.4	-0.2	0.6	0.0	0.0	0.0	0.0	-2.9
6187	427231.03	5409784.83	390.50	0	DEN	A	67.7	14.7	0.0	0.0	0.0	80.1	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	-7.3
6190	427284.95	5409661.13	398.83	0	DEN	A	67.7	13.4	0.0	0.0	0.0	79.7	5.5	-0.2	0.6	0.0	0.0	0.0	0.0	-4.5
6191	425350.77	5409558.82	272.50	0	DEN	A	67.7	14.9	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	7.9	0.0	0.0	-13.2
6192	427249.50	5409774.00	390.50	0	DEN	A	67.7	11.9	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	-10.0

Line Source, ISO 9613, Name: "Roen Aggregate Pit Truck Route", ID: "Roen_TR"																				
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)
5469	426388.49	5411303.58	371.91	0	DEN	A	66.4	29.3	0.0	0.0	0.0	84.0	7.2	0.6	0.6	0.0	3.2	0.0	0.0	0.2
5471	426377.10	5410443.70	369.96	0	DEN	A	66.4	29.3	0.0	0.0	0.0	82.3	6.3	0.6	0.6	0.0	3.2	0.0	0.0	2.7
5682	425300.41	5411772.54	364.93	0	DEN	A	66.4	28.5	0.0	0.0	0.0	85.4	8.0	0.6	0.5	0.0	3.1	0.0	0.0	-2.7

Sample Calculations

Line Source, ISO 9613, Name: "Roen Aggregate Pit Truck Route", ID: "Roen_TR"																				
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)
5684	426013.16	5411765.80	370.47	0	DEN	A	66.4	28.5	0.0	0.0	0.0	85.0	7.7	0.6	0.6	0.0	3.1	0.0	0.0	-2.1
5841	426038.88	5409389.89	335.07	0	DEN	A	66.4	24.3	0.0	0.0	0.0	80.0	5.3	0.6	0.6	0.0	13.7	0.0	0.0	-9.4
5855	425255.37	5411510.42	364.70	0	DEN	A	66.4	29.0	0.0	0.0	0.0	85.1	7.7	0.6	0.6	0.0	3.1	0.0	0.0	-1.7
5938	425791.92	5409362.56	326.48	0	DEN	A	66.4	23.7	0.0	0.0	0.0	80.3	5.4	0.6	0.5	0.0	7.4	0.0	0.0	-4.1
5944	426318.77	5409769.11	366.24	0	DEN	A	66.4	23.7	0.0	0.0	0.0	80.6	5.5	0.6	0.7	0.0	3.3	0.0	0.0	-0.7
5998	424652.94	5409851.38	356.21	0	DEN	A	66.4	25.3	0.0	0.0	0.0	83.1	6.7	0.6	0.6	0.0	0.0	0.0	0.0	0.7
6021	423204.42	5411872.47	358.94	0	DEN	A	66.4	29.0	0.0	0.0	0.0	87.3	9.1	0.4	0.0	0.0	3.1	0.0	0.0	-4.5
6022	425590.51	5409325.83	337.31	0	DEN	A	66.4	22.5	0.0	0.0	0.0	80.6	5.5	0.6	0.4	0.0	11.5	0.0	0.0	-9.7
6034	422037.26	5411766.76	372.50	0	DEN	A	66.4	27.1	0.0	0.0	0.0	88.2	9.7	0.3	0.0	0.0	0.0	0.0	0.0	-4.7
6040	421568.11	5411565.39	372.50	0	DEN	A	66.4	27.1	0.0	0.0	0.0	88.5	9.9	0.3	0.0	0.0	0.0	0.0	0.0	-5.2
6044	424427.00	5410108.00	356.21	0	DEN	A	66.4	25.4	0.0	0.0	0.0	83.8	7.0	0.6	0.6	0.0	0.0	0.0	0.0	-0.2
6049	423948.30	5410773.96	359.08	0	DEN	A	66.4	26.6	0.0	0.0	0.0	85.3	7.9	0.6	0.5	0.0	3.1	0.0	0.0	-4.4
6063	423673.19	5411583.93	357.85	0	DEN	A	66.4	27.5	0.0	0.0	0.0	86.5	8.6	0.5	0.0	0.0	3.1	0.0	0.0	-4.9
6065	426322.13	5409945.21	365.98	0	DEN	A	66.4	22.3	0.0	0.0	0.0	81.1	5.7	0.6	0.7	0.0	3.3	0.0	0.0	-2.7
6067	425308.53	5409336.85	356.01	0	DEN	A	66.4	22.0	0.0	0.0	0.0	81.1	5.7	0.6	0.7	0.0	3.3	0.0	0.0	-3.0
6070	424900.13	5409562.69	356.00	0	DEN	A	66.4	23.0	0.0	0.0	0.0	82.2	6.3	0.6	0.6	0.0	3.2	0.0	0.0	-3.6
6078	425038.73	5409443.21	355.00	0	DEN	A	66.4	22.2	0.0	0.0	0.0	81.8	6.0	0.6	0.7	0.0	3.3	0.0	0.0	-3.7
6083	424113.98	5410428.24	359.08	0	DEN	A	66.4	24.9	0.0	0.0	0.0	84.7	7.5	0.6	0.6	0.0	0.0	0.0	0.0	-2.1
6116	425167.68	5409370.33	355.50	0	DEN	A	66.4	21.2	0.0	0.0	0.0	81.4	5.9	0.6	0.7	0.0	3.3	0.0	0.0	-4.3
6117	425444.83	5409322.13	351.01	0	DEN	A	66.4	20.6	0.0	0.0	0.0	80.8	5.6	0.6	0.7	0.0	3.3	0.0	0.0	-4.0
6121	423801.02	5411149.17	358.00	0	DEN	A	66.4	25.4	0.0	0.0	0.0	85.9	8.2	0.6	0.0	0.0	3.1	0.0	0.0	-6.0
6122	426199.81	5409423.62	349.79	0	DEN	A	66.4	19.5	0.0	0.0	0.0	79.8	5.2	0.6	0.8	0.0	4.2	0.0	0.0	-4.7
6128	422539.50	5411878.60	366.10	0	DEN	A	66.4	27.3	0.0	0.0	0.0	87.8	9.5	0.4	0.0	0.0	3.2	0.0	0.0	-7.1
6130	425692.32	5411414.77	370.74	0	DEN	A	66.4	24.1	0.0	0.0	0.0	84.6	7.5	0.6	0.6	0.0	3.2	0.0	0.0	-5.9
6143	426236.92	5409496.84	356.99	0	DEN	A	66.4	18.9	0.0	0.0	0.0	80.0	5.3	0.6	0.7	0.0	3.3	0.0	0.0	-4.5
6160	426338.53	5409636.49	368.87	0	DEN	A	66.4	18.6	0.0	0.0	0.0	80.3	5.4	0.6	0.7	0.0	0.0	0.0	0.0	-1.9
6165	424789.26	5409672.09	356.50	0	DEN	A	66.4	20.5	0.0	0.0	0.0	82.6	6.4	0.6	0.6	0.0	0.0	0.0	0.0	-3.4
6176	426262.22	5409556.21	360.50	0	DEN	A	66.4	17.2	0.0	0.0	0.0	80.1	5.3	0.6	0.7	0.0	3.3	0.0	0.0	-6.4
6181	424243.35	5410259.78	357.50	0	DEN	A	66.4	21.1	0.0	0.0	0.0	84.3	7.3	0.6	0.6	0.0	0.0	0.0	0.0	-5.2
6183	426294.90	5409594.61	364.78	0	DEN	A	66.4	16.9	0.0	0.0	0.0	80.2	5.3	0.6	0.7	0.0	3.4	0.0	0.0	-6.9
6197	424908.35	5411724.09	360.59	0	DEN	A	66.4	16.8	0.0	0.0	0.0	85.7	8.1	0.6	0.5	0.0	3.1	0.0	0.0	-14.8
6201	424927.24	5411761.88	361.46	0	DEN	A	66.4	16.4	0.0	0.0	0.0	85.7	8.1	0.6	0.5	0.0	3.1	0.0	0.0	-15.2
6203	426379.05	5411757.85	373.26	0	DEN	A	66.4	13.2	0.0	0.0	0.0	84.8	7.6	0.6	0.6	0.0	3.2	0.0	0.0	-17.1
6208	426391.38	5411743.40	373.09	0	DEN	A	66.4	13.1	0.0	0.0	0.0	84.8	7.6	0.6	0.6	0.0	3.2	0.0	0.0	-17.2

Line Source, ISO 9613, Name: "Truck Route PAG (Loaded Truck)", ID: "TRL_PAG"																				
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)
5150	427736.36	5409874.78	379.22	0	D	A	83.2	26.5	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	22.5
5150	427736.36	5409874.78	379.22	0	N	A	83.2	26.5	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	22.5
5150	427736.36	5409874.78	379.22	0	E	A	83.2	26.5	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	22.5
5180	426038.55	5409390.92	335.07	0	D	A	83.2	24.3	0.0	0.0	0.0	80.0	2.4	2.1	0.6	0.0	9.4	0.0	0.0	13.1
5180	426038.55	5409390.92	335.07	0	N	A	83.2	24.3	0.0	0.0	0.0	80.0	2.4	2.1	0.6	0.0	9.4	0.0	0.0	13.1
5180	426038.55	5409390.92	335.07	0	E	A	83.2	24.3	0.0	0.0	0.0	80.0	2.4	2.1	0.6	0.0	9.4	0.0	0.0	13.1
5184	426432.69	5409603.26	373.27	0	D	A	83.2	23.9	0.0	0.0	0.0	80.1	2.4	2.1	0.3	0.0	0.0	0.0	0.0	22.2
5184	426432.69	5409603.26	373.27	0	N	A	83.2	23.9	0.0	0.0	0.0	80.1	2.4	2.1	0.3	0.0	0.0	0.0	0.0	22.2
5184	426432.69	5409603.26	373.27	0	E	A	83.2	23.9	0.0	0.0	0.0	80.1	2.4	2.1	0.3	0.0	0.0	0.0	0.0	22.2
5199	427242.73	5409796.07	393.05	0	D	A	83.2	23.3	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	19.5
5199	427242.73	5409796.07	393.05	0	N	A	83.2	23.3	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	19.5
5199	427242.73	5409796.07	393.05	0	E	A	83.2	23.3	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	19.5
5206	425633.22	5409578.74	272.50	0	D	A	83.2	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.3	0.0	0.0	16.7
5206	425633.22	5409578.74	272.50	0	N	A	83.2	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.3	0.0	0.0	16.7
5206	425633.22	5409578.74	272.50	0	E	A	83.2	23.7	0.0	0.0	0.0	81.1	2.6	2.1	0.1	0.0	4.3	0.0	0.0	16.7
5208	426640.46	5409616.78	380.50	0	D	A	83.2	22.5	0.0	0.0	0.0	79.9	2.4	2.0	0.2	0.0	2.1	0.0	0.0	19.0
5208	426640.46	5409616.78	380.50	0	N	A	83.2	22.5	0.0	0.0	0.0	79.9	2.4	2.0	0.2	0.0	2.1	0.0	0.0	19.0
5208	426640.46	5409616.78	380.50	0	E	A	83.2	22.5	0.0	0.0	0.0	79.9	2.4	2.0	0.2	0.0	2.1	0.0	0.0	19.0
5209	425555.63	5409447.83	294.11	0	D	A	83.2	23.3	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	10.7
5209	425555.63	5409447.83	294.11	0	N	A	83.2	23.3	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	10.7
5209	425555.63	5409447.83	294.11	0	E	A	83.2	23.3	0.0	0.0	0.0	80.9	2.6	2.1	0.1	0.0	10.1	0.0	0.0	10.7
5216	426800.25	5409680.19	385.50	0	D	A	83.2	22.3	0.0	0.0	0.0	80.0	2.4	2.0	0.2	0.0	2.1	0.0	0.0	18.7
5216	426800.25	5409680.19	385.50	0	N	A	83.2	22.3	0.0	0.0	0.0	80.0	2.4	2.0	0.2	0.0	2.1	0.0	0.0	18.7
5216	426800.25	5409680.19	385.50	0	E	A	83.2	22.3	0.0	0.0	0.0	80.0	2.4	2.0	0.2	0.0	2.1	0.0	0.0	18.7
5224	427429.10	5409836.24	387.41	0	D	A	83.2	22.3	0.0	0.0	0.0	80.2	2.4	2.1	0.2	0.0	2.1	0.0	0.0	18.5

Sample Calculations

Line Source, ISO 9613, Name: "Truck Route PAG (Loaded Truck)", ID: "TRL_PAG"																				
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))
5224	427429.10	5409836.24	387.41	0	N	A	83.2	22.3	0.0	0.0	0.0	80.2	2.4	2.1	0.2	0.0	2.1	0.0	0.0	18.5
5224	427429.10	5409836.24	387.41	0	E	A	83.2	22.3	0.0	0.0	0.0	80.2	2.4	2.1	0.2	0.0	2.1	0.0	0.0	18.5
5254	427069.39	5409750.84	394.06	0	D	A	83.2	21.7	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	18.1
5254	427069.39	5409750.84	394.06	0	N	A	83.2	21.7	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	18.1
5254	427069.39	5409750.84	394.06	0	E	A	83.2	21.7	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	18.1
5274	425839.72	5409411.72	324.57	0	D	A	83.2	21.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	17.3
5274	425839.72	5409411.72	324.57	0	N	A	83.2	21.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	17.3
5274	425839.72	5409411.72	324.57	0	E	A	83.2	21.3	0.0	0.0	0.0	80.4	2.5	2.1	0.2	0.0	2.1	0.0	0.0	17.3
5278	426936.78	5409723.25	390.51	0	D	A	83.2	21.0	0.0	0.0	0.0	80.0	2.4	2.1	0.3	0.0	0.0	0.0	0.0	19.5
5278	426936.78	5409723.25	390.51	0	N	A	83.2	21.0	0.0	0.0	0.0	80.0	2.4	2.1	0.3	0.0	0.0	0.0	0.0	19.5
5278	426936.78	5409723.25	390.51	0	E	A	83.2	21.0	0.0	0.0	0.0	80.0	2.4	2.1	0.3	0.0	0.0	0.0	0.0	19.5
5309	425715.83	5409425.84	319.09	0	D	A	83.2	20.7	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	16.3
5309	425715.83	5409425.84	319.09	0	N	A	83.2	20.7	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	16.3
5309	425715.83	5409425.84	319.09	0	E	A	83.2	20.7	0.0	0.0	0.0	80.6	2.5	2.1	0.2	0.0	2.2	0.0	0.0	16.3
5326	426198.97	5409423.50	349.74	0	D	A	83.2	19.5	0.0	0.0	0.0	79.8	2.4	2.0	0.6	0.0	2.6	0.0	0.0	15.1
5326	426198.97	5409423.50	349.74	0	N	A	83.2	19.5	0.0	0.0	0.0	79.8	2.4	2.0	0.6	0.0	2.6	0.0	0.0	15.1
5326	426198.97	5409423.50	349.74	0	E	A	83.2	19.5	0.0	0.0	0.0	79.8	2.4	2.0	0.6	0.0	2.6	0.0	0.0	15.1
5348	426236.40	5409495.89	356.85	0	D	A	83.2	18.9	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	15.3
5348	426236.40	5409495.89	356.85	0	N	A	83.2	18.9	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	15.3
5348	426236.40	5409495.89	356.85	0	E	A	83.2	18.9	0.0	0.0	0.0	80.0	2.4	2.1	0.2	0.0	2.1	0.0	0.0	15.3
5373	425395.07	5409583.04	272.50	0	D	A	83.2	19.5	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	13.2
5373	425395.07	5409583.04	272.50	0	N	A	83.2	19.5	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	13.2
5373	425395.07	5409583.04	272.50	0	E	A	83.2	19.5	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	3.1	0.0	0.0	13.2
5382	425477.97	5409587.51	272.50	0	D	A	83.2	19.0	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	12.8
5382	425477.97	5409587.51	272.50	0	N	A	83.2	19.0	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	12.8
5382	425477.97	5409587.51	272.50	0	E	A	83.2	19.0	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	3.1	0.0	0.0	12.8
5388	425420.99	5409490.77	273.43	0	D	A	83.2	18.7	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.2	0.0	0.0	1.6
5388	425420.99	5409490.77	273.43	0	N	A	83.2	18.7	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.2	0.0	0.0	1.6
5388	425420.99	5409490.77	273.43	0	E	A	83.2	18.7	0.0	0.0	0.0	81.2	2.6	2.1	0.1	0.0	14.2	0.0	0.0	1.6
5412	426293.15	5409593.86	364.37	0	D	A	83.2	17.2	0.0	0.0	0.0	80.2	2.4	2.1	0.2	0.0	2.1	0.0	0.0	13.3
5412	426293.15	5409593.86	364.37	0	N	A	83.2	17.2	0.0	0.0	0.0	80.2	2.4	2.1	0.2	0.0	2.1	0.0	0.0	13.3
5412	426293.15	5409593.86	364.37	0	E	A	83.2	17.2	0.0	0.0	0.0	80.2	2.4	2.1	0.2	0.0	2.1	0.0	0.0	13.3
5413	426260.95	5409554.66	360.11	0	D	A	83.2	17.0	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	13.3
5413	426260.95	5409554.66	360.11	0	N	A	83.2	17.0	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	13.3
5413	426260.95	5409554.66	360.11	0	E	A	83.2	17.0	0.0	0.0	0.0	80.1	2.4	2.1	0.2	0.0	2.1	0.0	0.0	13.3
5438	425369.28	5409524.87	272.50	0	D	A	83.2	17.1	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	9.9	0.0	0.0	4.1
5438	425369.28	5409524.87	272.50	0	N	A	83.2	17.1	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	9.9	0.0	0.0	4.1
5438	425369.28	5409524.87	272.50	0	E	A	83.2	17.1	0.0	0.0	0.0	81.4	2.7	2.1	0.1	0.0	9.9	0.0	0.0	4.1
5485	425350.93	5409558.03	272.50	0	D	A	83.2	14.9	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	6.0
5485	425350.93	5409558.03	272.50	0	N	A	83.2	14.9	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	6.0
5485	425350.93	5409558.03	272.50	0	E	A	83.2	14.9	0.0	0.0	0.0	81.5	2.7	2.1	0.1	0.0	5.7	0.0	0.0	6.0
6209	426553.92	5409594.59	378.50	0	D	A	83.2	-15.7	0.0	0.0	0.0	79.9	2.4	2.0	0.3	0.0	0.0	0.0	0.0	-17.1
6209	426553.92	5409594.59	378.50	0	N	A	83.2	-15.7	0.0	0.0	0.0	79.9	2.4	2.0	0.3	0.0	0.0	0.0	0.0	-17.1
6209	426553.92	5409594.59	378.50	0	E	A	83.2	-15.7	0.0	0.0	0.0	79.9	2.4	2.0	0.3	0.0	0.0	0.0	0.0	-17.1

Line Source, ISO 9613, Name: "Truck Route PAG (Empty Truck)", ID: "TRE_PAG"																				
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))
5439	427736.36	5409874.78	379.22	0	D	A	72.2	26.5	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	8.6
5439	427736.36	5409874.78	379.22	0	N	A	72.2	26.5	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	8.6
5439	427736.36	5409874.78	379.22	0	E	A	72.2	26.5	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	8.6
5483	426038.88	5409390.91	335.10	0	D	A	72.2	24.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	11.9	0.0	0.0	-1.4
5483	426038.88	5409390.91	335.10	0	N	A	72.2	24.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	11.9	0.0	0.0	-1.4
5483	426038.88	5409390.91	335.10	0	E	A	72.2	24.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	11.9	0.0	0.0	-1.4
5501	426432.69	5409603.26	373.27	0	D	A	72.2	23.9	0.0	0.0	0.0	80.1	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	10.0
5501	426432.69	5409603.26	373.27	0	N	A	72.2	23.9	0.0	0.0	0.0	80.1	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	10.0
5501	426432.69	5409603.26	373.27	0	E	A	72.2	23.9	0.0	0.0	0.0	80.1	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	10.0
5528	427242.46	5409796.07	393.09	0	D	A	72.2	23.3	0.0	0.0	0.0	80.1	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	5.7
5528	427242.46	5409796.07	393.09	0	N	A	72.2	23.3	0.0	0.0	0.0	80.1	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	5.7
5528	427242.46	5409796.07	393.09	0	E	A	72.2	23.3	0.0	0.0	0.0	80.1	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	5.7
5545	425632.54	5409579.12	272.50	0	D	A	72.2	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	2.0
5545	425632.54	5409579.12	272.50	0	N	A	72.2	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	2.0
5545	425632.54	5409579.12	272.50	0	E	A	72.2	23.7	0.0	0.0	0.0	81.1	6.1	-0.2	0.3	0.0	6.5	0.0	0.0	2.0

Sample Calculations

Line Source, ISO 9613, Name: "Truck Route PAG (Empty Truck)", ID: "TRE_PAG"																				
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)
5551	426640.46	5409616.78	380.50	0	D	A	72.2	22.5	0.0	0.0	0.0	79.9	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	5.2
5551	426640.46	5409616.78	380.50	0	N	A	72.2	22.5	0.0	0.0	0.0	79.9	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	5.2
5551	426640.46	5409616.78	380.50	0	E	A	72.2	22.5	0.0	0.0	0.0	79.9	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	5.2
5552	425554.97	5409448.47	293.93	0	D	A	72.2	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.3	0.0	21.3	0.0	0.0	-12.8
5552	425554.97	5409448.47	293.93	0	N	A	72.2	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.3	0.0	21.3	0.0	0.0	-12.8
5552	425554.97	5409448.47	293.93	0	E	A	72.2	23.3	0.0	0.0	0.0	80.9	6.0	-0.2	0.3	0.0	21.3	0.0	0.0	-12.8
5567	426800.25	5409680.19	385.50	0	D	A	72.2	22.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	4.9
5567	426800.25	5409680.19	385.50	0	N	A	72.2	22.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	4.9
5567	426800.25	5409680.19	385.50	0	E	A	72.2	22.3	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	4.9
5575	427429.10	5409836.24	387.41	0	D	A	72.2	22.3	0.0	0.0	0.0	80.2	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	4.6
5575	427429.10	5409836.24	387.41	0	N	A	72.2	22.3	0.0	0.0	0.0	80.2	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	4.6
5575	427429.10	5409836.24	387.41	0	E	A	72.2	22.3	0.0	0.0	0.0	80.2	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	4.6
5603	427069.23	5409750.98	394.10	0	D	A	72.2	21.7	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	4.2
5603	427069.23	5409750.98	394.10	0	N	A	72.2	21.7	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	4.2
5603	427069.23	5409750.98	394.10	0	E	A	72.2	21.7	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	4.2
5657	425840.04	5409411.71	324.61	0	D	A	72.2	21.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	3.4
5657	425840.04	5409411.71	324.61	0	N	A	72.2	21.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	3.4
5657	425840.04	5409411.71	324.61	0	E	A	72.2	21.3	0.0	0.0	0.0	80.4	5.8	-0.2	0.5	0.0	3.7	0.0	0.0	3.4
5663	426936.88	5409723.39	390.51	0	D	A	72.2	21.0	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	7.2
5663	426936.88	5409723.39	390.51	0	N	A	72.2	21.0	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	7.2
5663	426936.88	5409723.39	390.51	0	E	A	72.2	21.0	0.0	0.0	0.0	80.0	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	7.2
5719	425715.61	5409425.90	319.05	0	D	A	72.2	20.7	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	2.4
5719	425715.61	5409425.90	319.05	0	N	A	72.2	20.7	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	2.4
5719	425715.61	5409425.90	319.05	0	E	A	72.2	20.7	0.0	0.0	0.0	80.6	5.9	-0.2	0.5	0.0	3.8	0.0	0.0	2.4
5769	426198.96	5409423.51	349.74	0	D	A	72.2	19.5	0.0	0.0	0.0	79.8	5.5	-0.2	0.7	0.0	4.5	0.0	0.0	1.2
5769	426198.96	5409423.51	349.74	0	N	A	72.2	19.5	0.0	0.0	0.0	79.8	5.5	-0.2	0.7	0.0	4.5	0.0	0.0	1.2
5769	426198.96	5409423.51	349.74	0	E	A	72.2	19.5	0.0	0.0	0.0	79.8	5.5	-0.2	0.7	0.0	4.5	0.0	0.0	1.2
5816	426236.40	5409495.89	356.85	0	D	A	72.2	18.9	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	1.5
5816	426236.40	5409495.89	356.85	0	N	A	72.2	18.9	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	1.5
5816	426236.40	5409495.89	356.85	0	E	A	72.2	18.9	0.0	0.0	0.0	80.0	5.6	-0.2	0.5	0.0	3.7	0.0	0.0	1.5
5880	425395.02	5409583.17	272.50	0	D	A	72.2	19.6	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-1.3
5880	425395.02	5409583.17	272.50	0	N	A	72.2	19.6	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-1.3
5880	425395.02	5409583.17	272.50	0	E	A	72.2	19.6	0.0	0.0	0.0	81.5	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-1.3
5943	425477.69	5409587.63	272.50	0	D	A	72.2	18.9	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-1.8
5943	425477.69	5409587.63	272.50	0	N	A	72.2	18.9	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-1.8
5943	425477.69	5409587.63	272.50	0	E	A	72.2	18.9	0.0	0.0	0.0	81.4	6.2	-0.2	0.4	0.0	5.1	0.0	0.0	-1.8
5946	425420.18	5409491.64	273.29	0	D	A	72.2	18.7	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.3	0.0	0.0	-12.8
5946	425420.18	5409491.64	273.29	0	N	A	72.2	18.7	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.3	0.0	0.0	-12.8
5946	425420.18	5409491.64	273.29	0	E	A	72.2	18.7	0.0	0.0	0.0	81.2	6.1	-0.2	0.2	0.0	16.3	0.0	0.0	-12.8
5980	426293.15	5409593.86	364.37	0	D	A	72.2	17.2	0.0	0.0	0.0	80.2	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-0.5
5980	426293.15	5409593.86	364.37	0	N	A	72.2	17.2	0.0	0.0	0.0	80.2	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-0.5
5980	426293.15	5409593.86	364.37	0	E	A	72.2	17.2	0.0	0.0	0.0	80.2	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-0.5
5982	426260.95	5409554.66	360.11	0	D	A	72.2	17.0	0.0	0.0	0.0	80.1	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-0.6
5982	426260.95	5409554.66	360.11	0	N	A	72.2	17.0	0.0	0.0	0.0	80.1	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-0.6
5982	426260.95	5409554.66	360.11	0	E	A	72.2	17.0	0.0	0.0	0.0	80.1	5.7	-0.2	0.5	0.0	3.7	0.0	0.0	-0.6
6058	425369.10	5409525.28	272.50	0	D	A	72.2	17.0	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.1	0.0	0.0	-10.5
6058	425369.10	5409525.28	272.50	0	N	A	72.2	17.0	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.1	0.0	0.0	-10.5
6058	425369.10	5409525.28	272.50	0	E	A	72.2	17.0	0.0	0.0	0.0	81.4	6.2	-0.2	0.2	0.0	12.1	0.0	0.0	-10.5
6140	425350.94	5409558.34	272.50	0	D	A	72.2	14.9	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-8.7
6140	425350.94	5409558.34	272.50	0	N	A	72.2	14.9	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-8.7
6140	425350.94	5409558.34	272.50	0	E	A	72.2	14.9	0.0	0.0	0.0	81.5	6.2	-0.2	0.3	0.0	8.0	0.0	0.0	-8.7
6211	426553.92	5409594.59	378.50	0	D	A	72.2	-15.7	0.0	0.0	0.0	79.9	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	-29.3
6211	426553.92	5409594.59	378.50	0	N	A	72.2	-15.7	0.0	0.0	0.0	79.9	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	-29.3
6211	426553.92	5409594.59	378.50	0	E	A	72.2	-15.7	0.0	0.0	0.0	79.9	5.6	-0.2	0.6	0.0	0.0	0.0	0.0	-29.3

APPENDIX H. CADNA-A SAMPLE CALCULATION

Report (New Gold 2024Mar v0.7.1-edited for export.cna)

CALCULATION CONFIGURATION

Configuration	
Parameter	Value
General	
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	5000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	350.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	1000.00
Search Radius Rcvr	1000.00
Max. Distance Source - Rcvr	5000.00 5000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	Off
Screening	
	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	1.00
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receiver

Name: POR14

ID: POR14

X: 427450.00 m

Y: 5406952.00 m

Z: 377.27 m

Point Source, ISO 9613, Name: "Track Dozer 04 (Pit -CAT D10)", ID: "I00!TD04"

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)	
3276	426891.30	5409585.45	393.96	0	DEN	63	95.8	0.0	0.0	0.0	0.0	79.6	0.3	-5.7	0.0	0.0	0.0	0.0	0.0	0.0	21.6
3276	426891.30	5409585.45	393.96	0	DEN	125	106.9	0.0	0.0	0.0	0.0	79.6	1.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	21.6
3276	426891.30	5409585.45	393.96	0	DEN	250	102.4	0.0	0.0	0.0	0.0	79.6	2.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	18.8
3276	426891.30	5409585.45	393.96	0	DEN	500	112.8	0.0	0.0	0.0	0.0	79.6	5.2	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	29.2
3276	426891.30	5409585.45	393.96	0	DEN	1000	114.0	0.0	0.0	0.0	0.0	79.6	9.8	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	25.8
3276	426891.30	5409585.45	393.96	0	DEN	2000	115.2	0.0	0.0	0.0	0.0	79.6	26.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	10.8

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC5500 (602)", ID: "I00!E2"

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)	
3283	425796.00	5409570.00	156.00	0	DEN	63	99.8	0.0	0.0	0.0	0.0	80.8	0.4	-5.8	0.0	0.0	16.2	0.0	0.0	0.0	8.2
3283	425796.00	5409570.00	156.00	0	DEN	125	115.9	0.0	0.0	0.0	0.0	80.8	1.3	4.9	0.0	0.0	14.1	0.0	0.0	0.0	14.8
3283	425796.00	5409570.00	156.00	0	DEN	250	112.4	0.0	0.0	0.0	0.0	80.8	3.2	1.5	0.0	0.0	20.5	0.0	0.0	0.0	6.3
3283	425796.00	5409570.00	156.00	0	DEN	500	114.8	0.0	0.0	0.0	0.0	80.8	6.0	-0.9	0.0	0.0	24.9	0.0	0.0	0.0	3.9

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC8000 (603)", ID: "I00!E3"

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)	
3289	425793.50	5409615.85	156.00	0	DEN	63	100.3	0.0	0.0	0.0	0.0	81.0	0.4	-5.8	0.0	0.0	20.9	0.0	0.0	0.0	3.8
3289	425793.50	5409615.85	156.00	0	DEN	250	113.5	0.0	0.0	0.0	0.0	81.0	3.3	1.5	0.0	0.0	23.5	0.0	0.0	0.0	4.3
3289	425793.50	5409615.85	156.00	0	DEN	500	117.1	0.0	0.0	0.0	0.0	81.0	6.1	-0.9	0.0	0.0	25.0	0.0	0.0	0.0	6.0

Point Source, ISO 9613, Name: "Track Dozer 08 (PAG - Komatsu D475)", ID: "I00!TD08N"

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)	
3294	427876.57	5409482.00	390.98	0	N	63	95.8	0.0	0.0	0.0	0.0	79.2	0.3	-5.7	0.0	0.0	0.0	0.0	0.0	0.0	22.0
3294	427876.57	5409482.00	390.98	0	N	125	106.9	0.0	0.0	0.0	0.0	79.2	1.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	21.7
3294	427876.57	5409482.00	390.98	0	N	250	102.4	0.0	0.0	0.0	0.0	79.2	2.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	19.0
3294	427876.57	5409482.00	390.98	0	N	500	112.8	0.0	0.0	0.0	0.0	79.2	4.9	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	29.6
3294	427876.57	5409482.00	390.98	0	N	1000	114.0	0.0	0.0	0.0	0.0	79.2	9.4	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	26.3
3294	427876.57	5409482.00	390.98	0	N	2000	115.2	0.0	0.0	0.0	0.0	79.2	24.8	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	12.1
3294	427876.57	5409482.00	390.98	0	E	63	95.8	0.0	0.0	0.0	0.0	79.2	0.3	-5.7	0.0	0.0	0.0	0.0	0.0	0.0	22.0
3294	427876.57	5409482.00	390.98	0	E	125	106.9	0.0	0.0	0.0	0.0	79.2	1.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	21.7
3294	427876.57	5409482.00	390.98	0	E	250	102.4	0.0	0.0	0.0	0.0	79.2	2.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	19.0
3294	427876.57	5409482.00	390.98	0	E	500	112.8	0.0	0.0	0.0	0.0	79.2	4.9	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	29.6
3294	427876.57	5409482.00	390.98	0	E	1000	114.0	0.0	0.0	0.0	0.0	79.2	9.4	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	26.3
3294	427876.57	5409482.00	390.98	0	E	2000	115.2	0.0	0.0	0.0	0.0	79.2	24.8	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	12.1

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC5500 (601)", ID: "I00!E1"

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)	
3299	425141.51	5409548.47	287.75	0	DEN	63	99.8	0.0	0.0	0.0	0.0	81.8	0.4	-5.8	0.0	0.0	7.2	0.0	0.0	0.0	16.2
3299	425141.51	5409548.47	287.75	0	DEN	125	115.9	0.0	0.0	0.0	0.0	81.8	1.4	5.0	0.0	0.0	3.7	0.0	0.0	0.0	24.0
3299	425141.51	5409548.47	287.75	0	DEN	250	112.4	0.0	0.0	0.0	0.0	81.8	3.6	1.8	0.0	0.0	9.0	0.0	0.0	0.0	16.2
3299	425141.51	5409548.47	287.75	0	DEN	500	114.8	0.0	0.0	0.0	0.0	81.8	6.7	-0.8	0.0	0.0	13.1	0.0	0.0	0.0	14.0
3299	425141.51	5409548.47	287.75	0	DEN	1000	114.0	0.0	0.0	0.0	0.0	81.8	12.7	-0.9	0.0	0.0	15.8	0.0	0.0	0.0	4.5

Point Source, ISO 9613, Name: "Track Dozer 02 (Pit -CAT D10)", ID: "I00!TD02"

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)	
3305	425800.00	5409836.00	196.51	0	DEN	63	95.8	0.0	0.0	0.0	0.0	81.4	0.4	-5.8	0.0	0.0	5.4	0.0	0.0	0.0	14.3
3305	425800.00	5409836.00	196.51	0	DEN	125	106.9	0.0	0.0	0.0	0.0	81.4	1.4	4.8	0.0	0.0	1.2	0.0	0.0	0.0	18.1
3305	425800.00	5409836.00	196.51	0	DEN	250	102.4	0.0	0.0	0.0	0.0	81.4	3.5	1.4	0.0	0.0	5.7	0.0	0.0	0.0	10.5

Point Source, ISO 9613, Name: "Track Dozer 02 (Pit -CAT D10)", ID: "I00!TD02"																				
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)
3305	425800.00	5409836.00	196.51	0	DEN	500	112.8	0.0	0.0	0.0	0.0	81.4	6.4	-1.0	0.0	0.0	8.5	0.0	0.0	17.5
3305	425800.00	5409836.00	196.51	0	DEN	1000	114.0	0.0	0.0	0.0	0.0	81.4	12.2	-1.0	0.0	0.0	10.5	0.0	0.0	10.9

Point Source, ISO 9613, Name: "CAT Loader 994K", ID: "I00!Loader"																				
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)
3311	426503.08	5409696.48	376.00	0	DEN	63	91.8	0.0	0.0	0.0	0.0	80.3	0.4	-5.7	0.0	0.0	4.8	0.0	0.0	12.2
3311	426503.08	5409696.48	376.00	0	DEN	125	102.9	0.0	0.0	0.0	0.0	80.3	1.2	4.8	0.0	0.0	0.0	0.0	0.0	16.7
3311	426503.08	5409696.48	376.00	0	DEN	250	104.4	0.0	0.0	0.0	0.0	80.3	3.0	1.4	0.0	0.0	3.4	0.0	0.0	16.3
3311	426503.08	5409696.48	376.00	0	DEN	500	111.8	0.0	0.0	0.0	0.0	80.3	5.6	-1.0	0.0	0.0	4.8	0.0	0.0	22.2
3311	426503.08	5409696.48	376.00	0	DEN	1000	115.0	0.0	0.0	0.0	0.0	80.3	10.6	-1.0	0.0	0.0	4.8	0.0	0.0	20.4
3311	426503.08	5409696.48	376.00	0	DEN	2000	112.2	0.0	0.0	0.0	0.0	80.3	28.1	-1.0	0.0	0.0	4.8	0.0	0.0	0.2

Point Source, ISO 9613, Name: "DTH Drill Sandvik DR650i (918)", ID: "I00!DD1"																				
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)
3318	425632.77	5409589.08	156.00	0	DEN	500	112.8	0.0	0.0	0.0	0.0	81.1	6.2	-1.0	0.0	0.0	25.0	0.0	0.0	1.5

Point Source, ISO 9613, Name: "DTH Drill Sandvik DR650i (921)", ID: "I00!DD4"																				
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)
3324	425654.03	5409608.02	155.00	0	DEN	500	112.8	0.0	0.0	0.0	0.0	81.1	6.2	-0.9	0.0	0.0	25.0	0.0	0.0	1.4

Point Source, ISO 9613, Name: "DTH Drill Sandvik DR650i (919)", ID: "I00!DD2"																				
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)
3331	425598.82	5409569.93	156.00	0	DEN	500	112.8	0.0	0.0	0.0	0.0	81.1	6.2	-1.0	0.0	0.0	25.0	0.0	0.0	1.5

Point Source, ISO 9613, Name: "DTH Drill Sandvik DR650i (920)", ID: "I00!DD3"																				
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)
3337	425665.94	5409629.37	155.00	0	DEN	500	112.8	0.0	0.0	0.0	0.0	81.2	6.2	-0.9	0.0	0.0	25.0	0.0	0.0	1.3

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC3000", ID: "I00!E4"																				
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)
3343	425405.00	5409873.00	284.16	0	DEN	63	91.8	0.0	0.0	0.0	0.0	82.0	0.4	-5.8	0.0	0.0	4.8	0.0	0.0	10.3
3343	425405.00	5409873.00	284.16	0	DEN	125	110.1	0.0	0.0	0.0	0.0	82.0	1.5	4.7	0.0	0.0	0.1	0.0	0.0	21.8
3343	425405.00	5409873.00	284.16	0	DEN	250	112.0	0.0	0.0	0.0	0.0	82.0	3.7	1.2	0.0	0.0	3.5	0.0	0.0	21.5
3343	425405.00	5409873.00	284.16	0	DEN	500	113.8	0.0	0.0	0.0	0.0	82.0	6.9	-1.2	0.0	0.0	4.8	0.0	0.0	21.3
3343	425405.00	5409873.00	284.16	0	DEN	1000	114.8	0.0	0.0	0.0	0.0	82.0	13.0	-1.2	0.0	0.0	4.8	0.0	0.0	16.1

Point Source, ISO 9613, Name: "Portable Plant - CAT C13 Genset", ID: "I00!MBPA_GENSET"																				
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)
3350	426732.20	5410208.99	397.56	0	DEN	63	83.1	0.0	0.0	0.0	0.0	81.5	0.4	-5.8	0.0	0.0	0.0	0.0	0.0	7.0
3350	426732.20	5410208.99	397.56	0	DEN	125	94.5	0.0	0.0	0.0	0.0	81.5	1.4	4.6	0.0	0.0	0.0	0.0	0.0	7.1
3350	426732.20	5410208.99	397.56	0	DEN	250	106.3	0.0	0.0	0.0	0.0	81.5	3.5	1.9	0.0	0.0	0.0	0.0	0.0	19.5
3350	426732.20	5410208.99	397.56	0	DEN	500	108.8	0.0	0.0	0.0	0.0	81.5	6.4	-1.3	0.0	0.0	0.0	0.0	0.0	22.2
3350	426732.20	5410208.99	397.56	0	DEN	1000	111.8	0.0	0.0	0.0	0.0	81.5	12.2	-1.4	0.0	0.0	0.0	0.0	0.0	19.6
3350	426732.20	5410208.99	397.56	0	DEN	2000	112.3	0.0	0.0	0.0	0.0	81.5	32.2	-1.4	0.0	0.0	0.0	0.0	0.0	0.0

Point Source, ISO 9613, Name: "EO_GENSET", ID: "I00!EO_GENSET"																				
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)
3356	425264.00	5410102.00	347.00	0	D	63	91.5	0.0	0.0	0.0	0.0	82.7	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	9.4
3356	425264.00	5410102.00	347.00	0	D	125	106.7	0.0	0.0	0.0	0.0	82.7	1.6	4.8	0.0	0.0	0.0	0.0	0.0	17.7
3356	425264.00	5410102.00	347.00	0	D	250	111.3	0.0	0.0	0.0	0.0	82.7	4.0	2.1	0.0	0.0	2.7	0.0	0.0	19.9
3356	425264.00	5410102.00	347.00	0	D	500	118.7	0.0	0.0	0.0	0.0	82.7	7.4	-1.1	0.0	0.0	4.8	0.0	0.0	25.0
3356	425264.00	5410102.00	347.00	0	D	1000	119.1	0.0	0.0	0.0	0.0	82.7	14.0	-1.3	0.0	0.0	4.8	0.0	0.0	18.9

Point Source, ISO 9613, Name: "Material Drop", ID: "I00!Mat_drop"																				
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)
3363	426756.60	5410231.94	394.00	0	DEN	63	87.8	0.0	0.0	0.0	0.0	81.5	0.4	-5.8	0.0	0.0	4.8	0.0	0.0	6.9
3363	426756.60	5410231.94	394.00	0	DEN	125	93.9	0.0	0.0	0.0	0.0	81.5	1.4	4.9	0.0	0.0	0.0	0.0	0.0	6.1
3363	426756.60	5410231.94	394.00	0	DEN	250	103.4	0.0	0.0	0.0	0.0	81.5	3.5	3.0	0.0	0.0	1.8	0.0	0.0	13.6
3363	426756.60	5410231.94	394.00	0	DEN	500	107.8	0.0	0.0	0.0	0.0	81.5	6.5	-0.3	0.0	0.0	4.8	0.0	0.0	15.4
3363	426756.60	5410231.94	394.00	0	DEN	1000	111.0	0.0	0.0	0.0	0.0	81.5	12.3	-1.4	0.0	0.0	4.8	0.0	0.0	13.8

Point Source, ISO 9613, Name: "Komatsu Wheel Dozer WD900", ID: "I00!WL1"																				
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)
3370	426809.00	5410130.00	398.00	0	DEN	63	94.7	0.0	0.0	0.0	0.0	81.2	0.4	-5.7	0.0	0.0	0.0	0.0	0.0	18.8
3370	426809.00	5410130.00	398.00	0	DEN	125	107.4	0.0	0.0	0.0	0.0	81.2	1.3	3.9	0.0	0.0	0.0	0.0	0.0	20.9
3370	426809.00	5410130.00	398.00	0	DEN	250	104.2	0.0	0.0	0.0	0.0	81.2	3.4	0.2	0.0	0.0	0.0	0.0	0.0	19.4
3370	426809.00	5410130.00	398.00	0	DEN	500	108.2	0.0	0.0	0.0	0.0	81.2	6.3	-1.3	0.0	0.0	0.0	0.0	0.0	22.1
3370	426809.00	5410130.00	398.00	0	DEN	1000	110.1	0.0	0.0	0.0	0.0	81.2	11.9	-1.4	0.0	0.0	0.0	0.0	0.0	18.4

Point Source, ISO 9613, Name: "Track Dozer 01 (Pit - Komatsu D475)", ID: "I00!TD01"																				
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)
3388	425611.43	5410363.74	348.00	0	D	63	86.8	0.0	0.0	0.0	0.0	82.8	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	4.6
3388	425611.43	5410363.74	348.00	0	D	125	101.9	0.0	0.0	0.0	0.0	82.8	1.6	4.6	0.0	0.0	0.2	0.0	0.0	12.8
3388	425611.43	5410363.74	348.00	0	D	250	101.4	0.0	0.0	0.0	0.0	82.8	4.0	1.1	0.0	0.0	3.6	0.0	0.0	9.8
3388	425611.43	5410363.74	348.00	0	D	500	108.8	0.0	0.0	0.0	0.0	82.8	7.5	-1.3	0.0	0.0	4.8	0.0	0.0	15.1
3388	425611.43	5410363.74	348.00	0	D	1000	110.0	0.0	0.0	0.0	0.0	82.8	14.2	-1.3	0.0	0.0	4.8	0.0	0.0	9.6
3388	425611.43	5410363.74	348.00	0	N	63	91.8	0.0	0.0	0.0	0.0	82.8	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	9.6
3388	425611.43	5410363.74	348.00	0	N	125	106.9	0.0	0.0	0.0	0.0	82.8	1.6	4.6	0.0	0.0	0.2	0.0	0.0	17.8
3388	425611.43	5410363.74	348.00	0	N	250	106.4	0.0	0.0	0.0	0.0	82.8	4.0	1.1	0.0	0.0	3.6	0.0	0.0	14.8
3388	425611.43	5410363.74	348.00	0	N	500	113.8	0.0	0.0	0.0	0.0	82.8	7.5	-1.3	0.0	0.0	4.8	0.0	0.0	20.1
3388	425611.43	5410363.74	348.00	0	N	1000	115.0	0.0	0.0	0.0	0.0	82.8	14.2	-1.3	0.0	0.0	4.8	0.0	0.0	14.6
3388	425611.43	5410363.74	348.00	0	E	63	86.8	0.0	0.0	0.0	0.0	82.8	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	4.6
3388	425611.43	5410363.74	348.00	0	E	125	101.9	0.0	0.0	0.0	0.0	82.8	1.6	4.6	0.0	0.0	0.2	0.0	0.0	12.8
3388	425611.43	5410363.74	348.00	0	E	250	101.4	0.0	0.0	0.0	0.0	82.8	4.0	1.1	0.0	0.0	3.6	0.0	0.0	9.8
3388	425611.43	5410363.74	348.00	0	E	500	108.8	0.0	0.0	0.0	0.0	82.8	7.5	-1.3	0.0	0.0	4.8	0.0	0.0	15.1
3388	425611.43	5410363.74	348.00	0	E	1000	110.0	0.0	0.0	0.0	0.0	82.8	14.2	-1.3	0.0	0.0	4.8	0.0	0.0	9.6

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC360LC", ID: "I00!E6"																				
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)
3395	425180.00	5409589.00	284.76	0	DEN	63	89.2	0.0	0.0	0.0	0.0	81.8	0.4	-5.8	0.0	0.0	4.8	0.0	0.0	8.0
3395	425180.00	5409589.00	284.76	0	DEN	125	100.9	0.0	0.0	0.0	0.0	81.8	1.4	5.1	0.0	0.0	0.0	0.0	0.0	12.5
3395	425180.00	5409589.00	284.76	0	DEN	250	108.4	0.0	0.0	0.0	0.0	81.8	3.6	2.2	0.0	0.0	2.6	0.0	0.0	18.1
3395	425180.00	5409589.00	284.76	0	DEN	500	110.1	0.0	0.0	0.0	0.0	81.8	6.7	-0.8	0.0	0.0	4.8	0.0	0.0	17.5
3395	425180.00	5409589.00	284.76	0	DEN	1000	111.9	0.0	0.0	0.0	0.0	81.8	12.7	-0.9	0.0	0.0	4.9	0.0	0.0	13.3

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC360LC", ID: "I00!E7"																				
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)
3400	425114.00	5409688.00	284.28	0	DEN	63	89.2	0.0	0.0	0.0	0.0	82.1	0.4	-5.8	0.0	0.0	4.8	0.0	0.0	7.7
3400	425114.00	5409688.00	284.28	0	DEN	125	100.9	0.0	0.0	0.0	0.0	82.1	1.5	5.0	0.0	0.0	0.0	0.0	0.0	12.3
3400	425114.00	5409688.00	284.28	0	DEN	250	108.4	0.0	0.0	0.0	0.0	82.1	3.8	2.2	0.0	0.0	2.6	0.0	0.0	17.7
3400	425114.00	5409688.00	284.28	0	DEN	500	110.1	0.0	0.0	0.0	0.0	82.1	6.9	-0.9	0.0	0.0	4.8	0.0	0.0	17.1
3400	425114.00	5409688.00	284.28	0	DEN	1000	111.9	0.0	0.0	0.0	0.0	82.1	13.2	-0.9	0.0	0.0	4.8	0.0	0.0	12.8

Point Source, ISO 9613, Name: "EO Portable Plant - Terex 380 MVP Cone and Screener", ID: "I00!EO_SCNR"																				
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)
3405	425268.00	5410095.00	347.00	0	D	63	92.5	0.0	0.0	0.0	0.0	82.7	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	10.4
3405	425268.00	5410095.00	347.00	0	D	125	101.3	0.0	0.0	0.0	0.0	82.7	1.6	4.8	0.0	0.0	0.0	0.0	0.0	12.3
3405	425268.00	5410095.00	347.00	0	D	250	105.0	0.0	0.0	0.0	0.0	82.7	4.0	2.1	0.0	0.0	2.7	0.0	0.0	13.6
3405	425268.00	5410095.00	347.00	0	D	500	114.6	0.0	0.0	0.0	0.0	82.7	7.4	-1.1	0.0	0.0	4.8	0.0	0.0	20.9
3405	425268.00	5410095.00	347.00	0	D	1000	117.4	0.0	0.0	0.0	0.0	82.7	14.0	-1.2	0.0	0.0	4.8	0.0	0.0	17.2

Point Source, ISO 9613, Name: "CAT 994HL", ID: "I00!WL2"																				
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)
3411	426781.00	5409482.00	384.00	0	DEN	63	87.8	0.0	0.0	0.0	0.0	79.4	0.3	-5.7	0.0	0.0	4.8	0.0	0.0	9.1
3411	426781.00	5409482.00	384.00	0	DEN	125	104.9	0.0	0.0	0.0	0.0	79.4	1.1	4.7	0.0	0.0	0.1	0.0	0.0	19.7
3411	426781.00	5409482.00	384.00	0	DEN	250	99.4	0.0	0.0	0.0	0.0	79.4	2.7	1.3	0.0	0.0	3.5	0.0	0.0	12.5
3411	426781.00	5409482.00	384.00	0	DEN	500	106.8	0.0	0.0	0.0	0.0	79.4	5.0	-1.1	0.0	0.0	4.8	0.0	0.0	18.8
3411	426781.00	5409482.00	384.00	0	DEN	1000	109.0	0.0	0.0	0.0	0.0	79.4	9.6	-1.1	0.0	0.0	4.8	0.0	0.0	16.4

Point Source, ISO 9613, Name: "Komatsu Wheel Dozer WD900", ID: "I00!WD"																				
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)
3415	425279.00	5409460.00	286.12	0	DEN	63	89.8	0.0	0.0	0.0	0.0	81.4	0.4	-5.7	0.0	0.0	5.0	0.0	0.0	8.7
3415	425279.00	5409460.00	286.12	0	DEN	125	106.9	0.0	0.0	0.0	0.0	81.4	1.4	4.5	0.0	0.0	0.7	0.0	0.0	19.0
3415	425279.00	5409460.00	286.12	0	DEN	250	101.4	0.0	0.0	0.0	0.0	81.4	3.5	0.8	0.0	0.0	4.7	0.0	0.0	11.0
3415	425279.00	5409460.00	286.12	0	DEN	500	108.8	0.0	0.0	0.0	0.0	81.4	6.4	-0.8	0.0	0.0	6.2	0.0	0.0	15.6
3415	425279.00	5409460.00	286.12	0	DEN	1000	111.0	0.0	0.0	0.0	0.0	81.4	12.1	-0.8	0.0	0.0	7.2	0.0	0.0	11.0

Point Source, ISO 9613, Name: "Track Dozer 12 (NPAG/OB - CAT D10)", ID: "I00!TD12D"																				
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)
3423	425853.00	5410353.00	344.67	0	D	63	89.7	0.0	0.0	0.0	0.0	82.5	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	7.8
3423	425853.00	5410353.00	344.67	0	D	125	103.2	0.0	0.0	0.0	0.0	82.5	1.5	4.7	0.0	0.0	0.1	0.0	0.0	14.4
3423	425853.00	5410353.00	344.67	0	D	250	109.5	0.0	0.0	0.0	0.0	82.5	3.9	1.3	0.0	0.0	3.5	0.0	0.0	18.3
3423	425853.00	5410353.00	344.67	0	D	500	117.4	0.0	0.0	0.0	0.0	82.5	7.2	-1.1	0.0	0.0	4.8	0.0	0.0	24.0
3423	425853.00	5410353.00	344.67	0	D	1000	114.9	0.0	0.0	0.0	0.0	82.5	13.7	-1.1	0.0	0.0	4.8	0.0	0.0	15.0

Point Source, ISO 9613, Name: "Blast Hole Drill 5- Sandvik D75KS (916)", ID: "I00!BD5"																				
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)
3441	425430.00	5409829.00	256.86	0	DEN	250	93.4	0.0	0.0	0.0	0.0	81.9	3.7	1.3	0.0	0.0	3.7	0.0	0.0	2.9
3441	425430.00	5409829.00	256.86	0	DEN	500	104.8	0.0	0.0	0.0	0.0	81.9	6.8	-1.1	0.0	0.0	5.1	0.0	0.0	12.2
3441	425430.00	5409829.00	256.86	0	DEN	1000	107.0	0.0	0.0	0.0	0.0	81.9	12.9	-1.1	0.0	0.0	5.3	0.0	0.0	8.0

Point Source, ISO 9613, Name: "Blast Hole Drill 3- Sandvik D75KS (914)", ID: "I00!BD3"																				
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)
3448	425403.00	5409836.00	282.64	0	DEN	250	93.4	0.0	0.0	0.0	0.0	82.0	3.7	1.3	0.0	0.0	3.5	0.0	0.0	3.0
3448	425403.00	5409836.00	282.64	0	DEN	500	104.8	0.0	0.0	0.0	0.0	82.0	6.8	-1.1	0.0	0.0	4.8	0.0	0.0	12.4
3448	425403.00	5409836.00	282.64	0	DEN	1000	107.0	0.0	0.0	0.0	0.0	82.0	12.9	-1.2	0.0	0.0	4.8	0.0	0.0	8.5

Point Source, ISO 9613, Name: "CAT 980H Wheel Loader", ID: "I00!WL3"																				
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)
3453	424922.00	5409717.00	340.00	0	DEN	63	102.0	0.0	0.0	0.0	0.0	82.5	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	20.1
3453	424922.00	5409717.00	340.00	0	DEN	125	105.1	0.0	0.0	0.0	0.0	82.5	1.5	4.9	0.0	0.0	0.0	0.0	0.0	16.2
3453	424922.00	5409717.00	340.00	0	DEN	250	101.4	0.0	0.0	0.0	0.0	82.5	3.9	1.5	0.0	0.0	3.3	0.0	0.0	10.2
3453	424922.00	5409717.00	340.00	0	DEN	500	107.6	0.0	0.0	0.0	0.0	82.5	7.2	-0.9	0.0	0.0	4.8	0.0	0.0	14.1
3453	424922.00	5409717.00	340.00	0	DEN	1000	109.8	0.0	0.0	0.0	0.0	82.5	13.7	-0.9	0.0	0.0	4.8	0.0	0.0	9.8

Point Source, ISO 9613, Name: "EO Portable Plant - Wheel Loader (Doolan DL420)", ID: "I00!EO_FEL"																				
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)
3460	425254.00	5410040.00	348.00	0	D	63	95.8	0.0	0.0	0.0	0.0	82.6	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	13.8
3460	425254.00	5410040.00	348.00	0	D	125	97.9	0.0	0.0	0.0	0.0	82.6	1.6	4.6	0.0	0.0	0.2	0.0	0.0	9.0
3460	425254.00	5410040.00	348.00	0	D	250	100.5	0.0	0.0	0.0	0.0	82.6	4.0	1.2	0.0	0.0	3.6	0.0	0.0	9.2
3460	425254.00	5410040.00	348.00	0	D	500	111.7	0.0	0.0	0.0	0.0	82.6	7.3	-1.2	0.0	0.0	4.8	0.0	0.0	18.3
3460	425254.00	5410040.00	348.00	0	D	1000	116.1	0.0	0.0	0.0	0.0	82.6	13.9	-1.2	0.0	0.0	4.8	0.0	0.0	16.1

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC800LC", ID: "I00!E5"																				
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)
3467	426581.41	5410445.03	369.65	0	DEN	63	89.6	0.0	0.0	0.0	0.0	82.1	0.4	-5.8	0.0	0.0	4.8	0.0	0.0	8.1
3467	426581.41	5410445.03	369.65	0	DEN	125	99.3	0.0	0.0	0.0	0.0	82.1	1.5	4.4	0.0	0.0	0.4	0.0	0.0	10.9
3467	426581.41	5410445.03	369.65	0	DEN	250	98.6	0.0	0.0	0.0	0.0	82.1	3.8	1.0	0.0	0.0	3.8	0.0	0.0	7.9
3467	426581.41	5410445.03	369.65	0	DEN	500	108.5	0.0	0.0	0.0	0.0	82.1	6.9	-1.4	0.0	0.0	4.8	0.0	0.0	16.1
3467	426581.41	5410445.03	369.65	0	DEN	1000	107.1	0.0	0.0	0.0	0.0	82.1	13.2	-1.4	0.0	0.0	4.8	0.0	0.0	8.5

Point Source, ISO 9613, Name: "Track Dozer 09 (Ore -CAT D9)", ID: "I00!TD09"																				
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))
3499	427838.99	5409737.75	399.21	0	DEN	125	90.3	0.0	0.0	0.0	0.0	80.0	1.2	4.8	0.0	0.0	0.0	0.0	0.0	4.3
3499	427838.99	5409737.75	399.21	0	DEN	250	98.5	0.0	0.0	0.0	0.0	80.0	2.9	1.4	0.0	0.0	3.4	0.0	0.0	10.8
3499	427838.99	5409737.75	399.21	0	DEN	500	102.8	0.0	0.0	0.0	0.0	80.0	5.4	-1.0	0.0	0.0	4.8	0.0	0.0	13.6
3499	427838.99	5409737.75	399.21	0	DEN	1000	104.6	0.0	0.0	0.0	0.0	80.0	10.3	-1.0	0.0	0.0	4.8	0.0	0.0	10.6

Point Source, ISO 9613, Name: "Mill north ex 7", ID: "I00!Mill_Exh7"																				
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))
3508	426611.98	5411106.91	396.72	0	DEN	63	93.8	0.0	0.0	0.0	0.0	83.5	0.5	-5.3	0.0	0.0	6.9	0.0	0.0	8.1
3508	426611.98	5411106.91	396.72	0	DEN	125	97.9	0.0	0.0	0.0	0.0	83.5	1.7	2.5	0.0	0.0	5.8	0.0	0.0	4.3
3508	426611.98	5411106.91	396.72	0	DEN	250	100.4	0.0	0.0	0.0	0.0	83.5	4.4	0.1	0.0	0.0	10.2	0.0	0.0	2.2
3508	426611.98	5411106.91	396.72	0	DEN	500	105.8	0.0	0.0	0.0	0.0	83.5	8.2	-1.3	0.0	0.0	12.6	0.0	0.0	2.8

Point Source, ISO 9613, Name: "Mill north ex 8", ID: "I00!Mill_Exh8"																				
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))
3517	426610.08	5411106.98	396.71	0	DEN	63	93.8	0.0	0.0	0.0	0.0	83.5	0.5	-5.3	0.0	0.0	6.7	0.0	0.0	8.3
3517	426610.08	5411106.98	396.71	0	DEN	125	97.9	0.0	0.0	0.0	0.0	83.5	1.7	2.5	0.0	0.0	5.5	0.0	0.0	4.6
3517	426610.08	5411106.98	396.71	0	DEN	250	100.4	0.0	0.0	0.0	0.0	83.5	4.4	0.1	0.0	0.0	9.8	0.0	0.0	2.6
3517	426610.08	5411106.98	396.71	0	DEN	500	105.8	0.0	0.0	0.0	0.0	83.5	8.2	-1.3	0.0	0.0	12.1	0.0	0.0	3.3

Point Source, ISO 9613, Name: "Transformer 2", ID: "I00!T2"																				
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))
3524	426722.32	5411191.07	373.70	0	DEN	63	89.7	0.0	0.0	0.0	0.0	83.7	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	6.6
3524	426722.32	5411191.07	373.70	0	DEN	125	101.8	0.0	0.0	0.0	0.0	83.7	1.8	4.3	0.0	0.0	0.5	0.0	0.0	11.6
3524	426722.32	5411191.07	373.70	0	DEN	250	104.3	0.0	0.0	0.0	0.0	83.7	4.5	0.9	0.0	0.0	3.9	0.0	0.0	11.4
3524	426722.32	5411191.07	373.70	0	DEN	500	109.7	0.0	0.0	0.0	0.0	83.7	8.3	-1.5	0.0	0.0	4.8	0.0	0.0	14.5
3524	426722.32	5411191.07	373.70	0	DEN	1000	106.9	0.0	0.0	0.0	0.0	83.7	15.7	-1.6	0.0	0.0	4.8	0.0	0.0	4.3

Point Source, ISO 9613, Name: "EO Portable Plant - Elrus 3054 Jaw Crusher", ID: "I00!EO_PC"																				
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))
3546	425285.00	5410099.00	347.00	0	D	63	96.4	0.0	0.0	0.0	0.0	82.6	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	14.3
3546	425285.00	5410099.00	347.00	0	D	125	103.3	0.0	0.0	0.0	0.0	82.6	1.6	4.8	0.0	0.0	0.0	0.0	0.0	14.3
3546	425285.00	5410099.00	347.00	0	D	250	106.0	0.0	0.0	0.0	0.0	82.6	4.0	2.1	0.0	0.0	2.7	0.0	0.0	14.6
3546	425285.00	5410099.00	347.00	0	D	500	111.8	0.0	0.0	0.0	0.0	82.6	7.4	-1.1	0.0	0.0	4.8	0.0	0.0	18.1
3546	425285.00	5410099.00	347.00	0	D	1000	111.8	0.0	0.0	0.0	0.0	82.6	14.0	-1.2	0.0	0.0	4.8	0.0	0.0	11.6

Point Source, ISO 9613, Name: "Transformer 1", ID: "I00!T1"																				
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))
3553	426722.50	5411203.18	374.40	0	DEN	63	89.7	0.0	0.0	0.0	0.0	83.7	0.5	-5.8	0.0	0.0	4.8	0.0	0.0	6.5
3553	426722.50	5411203.18	374.40	0	DEN	125	101.8	0.0	0.0	0.0	0.0	83.7	1.8	4.3	0.0	0.0	0.5	0.0	0.0	11.6
3553	426722.50	5411203.18	374.40	0	DEN	250	104.3	0.0	0.0	0.0	0.0	83.7	4.5	0.9	0.0	0.0	3.9	0.0	0.0	11.3
3553	426722.50	5411203.18	374.40	0	DEN	500	109.7	0.0	0.0	0.0	0.0	83.7	8.3	-1.5	0.0	0.0	4.8	0.0	0.0	14.5
3553	426722.50	5411203.18	374.40	0	DEN	1000	106.9	0.0	0.0	0.0	0.0	83.7	15.8	-1.6	0.0	0.0	4.8	0.0	0.0	4.2

Point Source, ISO 9613, Name: "Track Dozer 15 (NPAG/OB -CAT D9)", ID: "I00!TD15"																				
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))
3575	425272.00	5409602.00	284.00	0	DEN	125	90.3	0.0	0.0	0.0	0.0	81.7	1.4	4.9	0.0	0.0	0.0	0.0	0.0	2.3
3575	425272.00	5409602.00	284.00	0	DEN	250	98.5	0.0	0.0	0.0	0.0	81.7	3.6	1.5	0.0	0.0	3.3	0.0	0.0	8.4
3575	425272.00	5409602.00	284.00	0	DEN	500	102.8	0.0	0.0	0.0	0.0	81.7	6.6	-0.9	0.0	0.0	4.9	0.0	0.0	10.5
3575	425272.00	5409602.00	284.00	0	DEN	1000	104.6	0.0	0.0	0.0	0.0	81.7	12.6	-0.9	0.0	0.0	5.0	0.0	0.0	6.2

Point Source, ISO 9613, Name: "Track Dozer 08 (PAG - Komatsu D475)", ID: "I00!TD08D"																				
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))
3579	425190.14	5409740.74	284.00	0	D	63	86.8	0.0	0.0	0.0	0.0	82.1	0.4	-5.8	0.0	0.0	4.8	0.0	0.0	5.3
3579	425190.14	5409740.74	284.00	0	D	125	101.9	0.0	0.0	0.0	0.0	82.1	1.5	4.8	0.0	0.0	0.0	0.0	0.0	13.5
3579	425190.14	5409740.74	284.00	0	D	250	101.4	0.0	0.0	0.0	0.0	82.1	3.7	1.4	0.0	0.0	3.4	0.0	0.0	10.8
3579	425190.14	5409740.74	284.00	0	D	500	108.8	0.0	0.0	0.0	0.0	82.1	6.9	-1.0	0.0	0.0	4.8	0.0	0.0	16.0
3579	425190.14	5409740.74	284.00	0	D	1000	110.0	0.0	0.0	0.0	0.0	82.1	13.1	-1.0	0.0	0.0	4.8	0.0	0.0	11.0

Point Source, ISO 9613, Name: "Mill Ex fan 2", ID: "I00!Mill_Exh2"																				
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)
3585	426649.19	5410937.09	381.60	0	DEN	63	86.8	0.0	0.0	0.0	0.0	83.2	0.5	-5.6	0.0	0.0	4.8	0.0	0.0	4.0
3585	426649.19	5410937.09	381.60	0	DEN	125	95.9	0.0	0.0	0.0	0.0	83.2	1.7	2.4	0.0	0.0	2.4	0.0	0.0	6.3
3585	426649.19	5410937.09	381.60	0	DEN	250	101.4	0.0	0.0	0.0	0.0	83.2	4.2	-0.1	0.0	0.0	4.8	0.0	0.0	9.3
3585	426649.19	5410937.09	381.60	0	DEN	500	107.8	0.0	0.0	0.0	0.0	83.2	7.8	-1.4	0.0	0.0	4.8	0.0	0.0	13.5
3585	426649.19	5410937.09	381.60	0	DEN	1000	104.0	0.0	0.0	0.0	0.0	83.2	14.9	-1.4	0.0	0.0	4.8	0.0	0.0	2.6
3592	426649.19	5410937.09	381.60	2	DEN	250	101.4	0.0	0.0	0.0	0.0	83.5	4.4	-0.1	0.0	0.0	4.8	0.0	2.0	6.8
3592	426649.19	5410937.09	381.60	2	DEN	500	107.8	0.0	0.0	0.0	0.0	83.5	8.1	-1.5	0.0	0.0	4.8	0.0	2.0	10.9

Point Source, ISO 9613, Name: "Mill Ex fan 1", ID: "I00!Mill_Exh1"																				
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)
3599	426649.32	5410978.33	370.00	0	DEN	63	96.8	0.0	0.0	0.0	0.0	83.3	0.5	-5.9	0.0	0.0	7.8	0.0	0.0	11.1
3599	426649.32	5410978.33	370.00	0	DEN	125	95.9	0.0	0.0	0.0	0.0	83.3	1.7	4.7	0.0	0.0	4.8	0.0	0.0	1.4
3599	426649.32	5410978.33	370.00	0	DEN	250	99.4	0.0	0.0	0.0	0.0	83.3	4.3	2.8	0.0	0.0	9.0	0.0	0.0	0.1
3623	426649.32	5410978.33	370.00	1	DEN	125	95.9	0.0	0.0	0.0	0.0	83.4	1.7	4.7	0.0	0.0	0.0	0.0	1.0	5.0
3623	426649.32	5410978.33	370.00	1	DEN	250	99.4	0.0	0.0	0.0	0.0	83.4	4.3	2.8	0.0	0.0	2.0	0.0	1.0	5.9
3623	426649.32	5410978.33	370.00	1	DEN	500	103.8	0.0	0.0	0.0	0.0	83.4	8.0	-0.5	0.0	0.0	4.8	0.0	1.0	7.1
3623	426649.32	5410978.33	370.00	1	DEN	1000	105.0	0.0	0.0	0.0	0.0	83.4	15.2	-1.5	0.0	0.0	4.8	0.0	1.0	2.1
3631	426649.32	5410978.33	370.00	2	DEN	125	95.9	0.0	0.0	0.0	0.0	83.4	1.7	4.7	0.0	0.0	0.0	0.0	2.0	4.0
3631	426649.32	5410978.33	370.00	2	DEN	250	99.4	0.0	0.0	0.0	0.0	83.4	4.3	2.8	0.0	0.0	2.0	0.0	2.0	4.9
3631	426649.32	5410978.33	370.00	2	DEN	500	103.8	0.0	0.0	0.0	0.0	83.4	8.0	-0.5	0.0	0.0	4.8	0.0	2.0	6.1
3631	426649.32	5410978.33	370.00	2	DEN	1000	105.0	0.0	0.0	0.0	0.0	83.4	15.2	-1.5	0.0	0.0	4.8	0.0	2.0	1.1
3639	426649.32	5410978.33	370.00	2	DEN	125	95.9	0.0	0.0	0.0	0.0	83.4	1.7	4.7	0.0	0.0	0.0	0.0	2.0	4.0
3639	426649.32	5410978.33	370.00	2	DEN	250	99.4	0.0	0.0	0.0	0.0	83.4	4.3	2.8	0.0	0.0	2.0	0.0	2.0	4.9
3639	426649.32	5410978.33	370.00	2	DEN	500	103.8	0.0	0.0	0.0	0.0	83.4	8.0	-0.5	0.0	0.0	4.8	0.0	2.0	6.1
3639	426649.32	5410978.33	370.00	2	DEN	1000	105.0	0.0	0.0	0.0	0.0	83.4	15.2	-1.5	0.0	0.0	4.8	0.0	2.0	1.1
3646	426649.32	5410978.33	370.00	1	DEN	63	96.8	0.0	0.0	0.0	0.0	83.3	0.5	-5.9	0.0	0.0	7.8	0.0	1.0	10.1
3646	426649.32	5410978.33	370.00	1	DEN	125	95.9	0.0	0.0	0.0	0.0	83.3	1.7	4.7	0.0	0.0	4.8	0.0	1.0	0.4

Point Source, ISO 9613, Name: "Assay Lab DC2", ID: "I00!AsyL_DC2"																				
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)
3674	426437.50	5411037.42	372.00	0	DEN	250	98.4	0.0	0.0	0.0	0.0	83.5	4.4	0.8	0.0	0.0	9.4	0.0	0.0	0.2
3674	426437.50	5411037.42	372.00	0	DEN	500	102.8	0.0	0.0	0.0	0.0	83.5	8.1	-1.6	0.0	0.0	12.6	0.0	0.0	0.1

Point Source, ISO 9613, Name: "Dust Collector 1", ID: "I00!DC1"																				
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)
3694	426780.20	5410251.09	397.11	0	DEN	250	99.3	0.0	0.0	0.0	0.0	81.5	3.5	1.0	0.0	0.0	3.8	0.0	0.0	9.5
3694	426780.20	5410251.09	397.11	0	DEN	500	99.0	0.0	0.0	0.0	0.0	81.5	6.5	-1.4	0.0	0.0	4.8	0.0	0.0	7.6
3694	426780.20	5410251.09	397.11	0	DEN	1000	98.6	0.0	0.0	0.0	0.0	81.5	12.3	-1.4	0.0	0.0	4.8	0.0	0.0	1.4

Point Source, ISO 9613, Name: "Dust Collector 2", ID: "I00!DC2"																				
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)
3707	426611.94	5410474.13	372.00	0	DEN	250	99.3	0.0	0.0	0.0	0.0	82.2	3.8	0.9	0.0	0.0	3.8	0.0	0.0	8.6
3707	426611.94	5410474.13	372.00	0	DEN	500	99.0	0.0	0.0	0.0	0.0	82.2	7.0	-1.5	0.0	0.0	4.8	0.0	0.0	6.5

Point Source, ISO 9613, Name: "Track Dozer 17 (TMA -CAT D9)", ID: "I00!TD17"																				
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)
3733	424765.00	5409585.00	348.13	0	D	250	98.5	0.0	0.0	0.0	0.0	82.5	3.9	3.4	0.0	0.0	1.3	0.0	0.0	7.3
3733	424765.00	5409585.00	348.13	0	D	500	102.8	0.0	0.0	0.0	0.0	82.5	7.3	0.0	0.0	0.0	4.8	0.0	0.0	8.3
3733	424765.00	5409585.00	348.13	0	D	1000	104.6	0.0	0.0	0.0	0.0	82.5	13.8	0.0	0.0	0.0	4.8	0.0	0.0	3.6

Point Source, ISO 9613, Name: "Water Pump WP41", ID: "I00!WP41"																				
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)
3739	426855.87	5408538.26	358.87	0	DEN	63	75.8	0.0	0.0	0.0	0.0	75.6	0.2	-5.7	0.0	0.0	4.8	0.0	0.0	0.9
3739	426855.87	5408538.26	358.87	0	DEN	500	88.8	0.0	0.0	0.0	0.0	75.6	3.3	5.0	0.0	0.0	0.0	0.0	0.0	5.0
3739	426855.87	5408538.26	358.87	0	DEN	1000	92.0	0.0	0.0	0.0	0.0	75.6	6.2	0.7	0.0	0.0	4.1	0.0	0.0	5.5

Point Source, ISO 9613, Name: "Underground Crusher", ID: "I00IUC"																				
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)
3746	426765.89	5410234.06	393.33	0	DEN	250	92.4	0.0	0.0	0.0	0.0	81.5	3.5	4.2	0.0	0.0	0.7	0.0	0.0	2.5
3746	426765.89	5410234.06	393.33	0	DEN	500	95.8	0.0	0.0	0.0	0.0	81.5	6.5	5.5	0.0	0.0	0.0	0.0	0.0	2.3

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC360LC", ID: "I00IE18"																				
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)
3774	426831.10	5409879.30	383.20	0	D	250	91.4	0.0	0.0	0.0	0.0	80.5	3.1	1.8	0.0	0.0	3.0	0.0	0.0	3.0
3774	426831.10	5409879.30	383.20	0	D	500	97.8	0.0	0.0	0.0	0.0	80.5	5.8	-1.3	0.0	0.0	4.8	0.0	0.0	8.0
3774	426831.10	5409879.30	383.20	0	D	1000	97.0	0.0	0.0	0.0	0.0	80.5	10.9	-1.3	0.0	0.0	4.8	0.0	0.0	2.1

Point Source, ISO 9613, Name: "Komatsu Diesel Excavator PC360LC", ID: "I00IE17"																				
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)
3779	426811.10	5409918.00	383.20	0	D	250	91.4	0.0	0.0	0.0	0.0	80.6	3.2	1.8	0.0	0.0	3.0	0.0	0.0	2.8
3779	426811.10	5409918.00	383.20	0	D	500	97.8	0.0	0.0	0.0	0.0	80.6	5.8	-1.3	0.0	0.0	4.8	0.0	0.0	7.8
3779	426811.10	5409918.00	383.20	0	D	1000	97.0	0.0	0.0	0.0	0.0	80.6	11.1	-1.3	0.0	0.0	4.8	0.0	0.0	1.8

Line Source, ISO 9613, Name: "Motor grader route PAG", ID: "I00IMGR_PAG"																				
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)
3891	427157.40	5409773.02	393.84	0	DEN	500	62.8	27.1	0.0	0.0	0.0	80.1	5.5	-1.3	0.0	0.0	0.0	0.0	0.0	5.6
3891	427157.40	5409773.02	393.84	0	DEN	1000	63.0	27.1	0.0	0.0	0.0	80.1	10.4	-1.3	0.0	0.0	0.0	0.0	0.0	0.9

Line Source, ISO 9613, Name: "Truck Route Open Pit to PAG (Loaded Truck)", ID: "I00ITRL_OP_PAG"																				
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)
3896	427157.27	5409772.75	393.80	0	DEN	250	58.0	27.1	0.0	0.0	0.0	80.1	3.0	1.1	0.0	0.0	0.0	0.0	0.0	0.9
3896	427157.27	5409772.75	393.80	0	DEN	500	63.4	27.1	0.0	0.0	0.0	80.1	5.5	-1.3	0.0	0.0	0.0	0.0	0.0	6.2
3896	427157.27	5409772.75	393.80	0	DEN	1000	62.6	27.1	0.0	0.0	0.0	80.1	10.4	-1.3	0.0	0.0	0.0	0.0	0.0	0.5

Line Source, ISO 9613, Name: "Motor Grader Route Stockpile", ID: "I00IMGR_SP"																				
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)
3910	427549.20	5409681.21	393.61	0	DEN	500	62.8	26.0	0.0	0.0	0.0	79.7	5.3	-1.5	0.0	0.0	4.8	0.0	0.0	0.5
4290	427803.65	5409569.97	392.00	0	DEN	500	62.8	22.1	0.0	0.0	0.0	79.4	5.1	-0.9	0.0	0.0	0.0	0.0	0.0	1.3

Line Source, ISO 9613, Name: "Truck Route Open Pit to PAG (Empty Truck)", ID: "I00ITRE_OP_PAG"																				
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)
3927	427156.87	5409772.62	393.73	0	DEN	500	61.4	27.1	0.0	0.0	0.0	80.1	5.5	-1.3	0.0	0.0	0.0	0.0	0.0	4.2
3927	427156.87	5409772.62	393.73	0	DEN	1000	62.6	27.1	0.0	0.0	0.0	80.1	10.4	-1.3	0.0	0.0	0.0	0.0	0.0	0.5

Line Source, ISO 9613, Name: "Water Truck Route PAG", ID: "I00IWTR_PAG"																				
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)
3982	427157.67	5409773.15	393.89	0	DEN	500	61.0	27.1	0.0	0.0	0.0	80.1	5.5	-1.3	0.0	0.0	0.0	0.0	0.0	3.9

