The Corporation of the City of Sault Ste. Marie

Regular Meeting of City Council

Agenda

Monday, August 28, 2023

5:00 pm

Council Chambers and Video Conference

Meetings may be viewed live on the City's YouTube channel
https://www.youtube.com/user/SaultSteMarieOntario

Pages

1. **Land Acknowledgement**

I acknowledge, with respect, that we are in Robinson-Huron Treaty territory, that the land on which we are gathered is the traditional territory of the Anishinaabe and known as Bawating. Bawating is the home of Garden River First Nation, Batchewana First Nation, the Historic Sault Ste. Marie Metis Council.

2. **Adoption of Minutes** 14 - 33

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that the Minutes of the Regular Council Meeting of July 31, 2023 be approved.

3. **Questions and Information Arising Out of the Minutes and not Otherwise on the Agenda**

4. **Declaration of Pecuniary Interest**

5. **Approve Agenda as Presented**

Mover Councillor A. Caputo

Seconder Councillor S. Spina
Resolved that the Agenda for August 28, 2023 City Council Meeting as presented be approved.

6. Presentations

6.1 Downtown Security Patrols

34 - 46

Nicholas Rosset, Chair, Downtown Association

7. Communications and Routine Reports of City Departments, Boards and Committees – Consent Agenda

Mover Councillor R. Zagordo

Seconder Councillor S. Spina
Resolved that all the items listed under date August 28, 2023 – Agenda item 7 – Consent Agenda be approved as recommended.

7.1 Correspondence – Minister of Municipal Affairs

47 - 51

Housing Pledges and Targets, Strong Mayor Powers

7.2 2022 Audited Financial Statements

52 - 95

A report of the Chief Financial Officer and Treasurer for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Hollingsworth
Resolved that the report of the Chief Financial Officer and Treasurer dated August 28, 2023 concerning the 2022 Audited Financial Statements be received and that the Audited Consolidated Financial Statements and Trust Fund Statements for 2022 be approved.

7.3 Downtown Plaza Launch Update

96 - 98

A report of the Deputy CAO, Community Development and Enterprise Services is attached for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Hollingsworth
Resolved that the report of the Deputy CAO, Community Development and Enterprise Services dated August 28, 2023 concerning the downtown plaza opening schedule be received as information.

7.4 Soo Greyhounds Tailgate Events

99 - 102

A report of the Director of Community Services is attached for the consideration of Council.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth

Resolved that the report of the Director of Community Services dated August 28, 2023 concerning Soo Greyhound Tailgate Events be received and that the City:

- Continue to partner with the Soo Greyhounds and Downtown Association for on-street pre-game parties and/or parking lot parties licensed by special permits;
- A FanZone be established at the downtown Plaza;
- Free transit services for same-day transit service be provided to valid Soo Greyhound game ticket holders.

7.5 Green House Gas Reduction Pathway Feasibility Study Funding Grant Agreement 103 - 104

A report of the Sustainability Coordinator is attached for the consideration of Council.

The relevant By-law 2023-143 is listed under item 12 of the Agenda and will be read with all by-laws under that item.

7.6 Traffic Control at Northern Avenue West and Bainbridge Street 105 - 106

A report of the Municipal Services and Design Engineer are attached for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Hollingsworth
Resolved that the report of the Municipal Services and Design Engineer dated August 28, 2023 concerning the yield sign at Northern Avenue and Bainbridge Street intersection be received as information.

7.7 Contract 2023-9E Budget Increase 107 - 108

A report of the Municipal Services and Design Engineer is attached for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Spina
Resolved that the report of the Municipal Services and Design Engineer dated August 28, 2023 concerning Contract 2023-9E Budget Increase be received and that an additional spend of $35,000 from the annual emergency allocation from the Asset Management Reserve be approved.

7.8 By-law Enforcement Appointment 109 - 109

A report of the Chief Building Official is attached for the consideration of Council.

The relevant By-law 2023-142 is listed under item 12 of the Agenda and will

be read with all by-laws under that item.

7.9 Fire Services PA System Upgrade

110 - 111

A report of the Fire Chief is attached for the consideration of Council.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that the report of the Fire Chief dated August 28, 2023 concerning Fire Services PA Upgrade be received and that the repurposing of $60,000 from NG-911 Asset Management Reserve allocation to fund the upgrade be approved.

7.10 Franchise Agreement with Enbridge Gas Inc.

112 - 113

A report of the City Solicitor is attached for the consideration of Council.

Mover Councillor A. Caputo

Seconder Councillor S. Spina
Resolved that the report of the City Solicitor dated August 28, 2023 concerning the franchise agreement with Enbridge Gas Inc. be received and the following resolution be passed:

1. This Council approves the form of draft by-law and franchise agreement attached hereto and authorizes the submission thereof to the Ontario Energy Board for approval pursuant to the provisions of Section 9 of the *Municipal Franchises Act*.
2. This Council requests that the Ontario Energy Board make an Order declaring and directing that the assent of the municipal electors to the attached draft by-law and franchise agreement pertaining to the Corporation of the City of Sault Ste. Marie is not necessary pursuant to the provisions of Section 9(4) of the *Municipal Franchises Act*.

The relevant By-law 2023-144 is listed under item 12 of the Agenda and will be read with all by-laws under that item.

7.11 Canadian Pacific Welcome Sign (Trunk Road) Agreement

114 - 115

A report of the Assistant City Solicitor/Senior Litigation Counsel is attached for the consideration of Council.

The relevant By-law 2023-133 is listed under item 12 of the Agenda and will be read with all by-laws under that item.

7.12 Housekeeping – Streets and Other Related Matters

116 - 117

A report of the Solicitor is attached for the consideration of Council.

The relevant By-laws 2023-145 and 2023-146 are listed under item 12 of the Agenda and will be read with all by-laws under that item.

7.13 Scrap Metal Facility Update 118 - 124

A report of the Solicitor/Prosecutor is attached for the consideration of Council.

Mover Councillor A. Caputo

Seconder Councillor S. Spina
Resolved that the report of the Solicitor/Prosecutor dated August 28, 2023 regarding an update for Scrap Metal Facilities be received as information.

7.14 Regulating Snow Disposal Sites 125 - 129

A report of the Planner is attached for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Spina
Resolved that the report of the Planner dated August 28, 2023 concerning regulating snow disposal sites be received as information.

8. Administration

9. Reports of City Departments, Boards and Committees

9.1 Corporate Services

9.2 Community Development and Enterprise Services

9.2.1 Downtown Security Patrols 130 - 133

A report of the Deputy CAO, Community Development and Enterprise Services attached for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Hollingsworth
Resolved that the report of the Deputy CAO, Community Development and Enterprise Services dated August 28, 2023 concerning Downtown Security Patrols be received and City Council refer the expense to 2024 budget deliberations.

Further, that City Council approve the utilization of up to $60,000 from the contingency reserve to support in-year implementation of security services for the remainder of 2023.

9.3 Public Works and Engineering Services

9.3.1 Queen Street – Value Management Opportunities

At the July 31, 2023 Council meeting, this motion was postponed to August

28, 2023.

Mover Councillor R. Zagordo

Seconder Councillor S. Spina
Resolved that the report of the Director of Engineering dated July 31, 2023 concerning Queen Street – Value Management Opportunities be received and that Council approve, in principle, the conceptual design of Queen Street between Pim Street and Gore Street.

9.3.1.1 Request for Reconsideration

Mover Councillor R. Zagordo

Seconder Councillor L. Vezeau-Allen
Whereas the vote on an alternative resolution considered at the July 31, 2023 Council meeting was tied and therefore defeated;

Now Therefore Be It Resolved that the resolution be reconsidered.

Mover Councillor R. Zagordo

Seconder Councillor L. Vezeau-Allen
Resolved that the provisions of procedure by-law 2023-100 requiring that a motion to reconsider shall be proceeded by a Notice of Motion be suspended.

Mover Councillor L. Dufour

Seconder Councillor C. Gardi
Resolved that the report of the Director of Engineering dated July 31, 2023 concerning Queen Street Value Management Opportunities be received and that Council:

1. Approve in principle the conceptual re-design of Queen Street between Pim Street and Gore Street;
2. Approve in principle the proposed re-construction of Queen Street between, at most, Pim Street and Bruce Street, to be included in the Five Year Capital Plan, and be slated for re-construction in 2024, at an estimated cost of no greater than $6M, to be presented for Council's consideration at the August 28, 2023 City Council meeting; further, if the $6M proposed re-construction costs of Pim Street to Bruce Street is insufficient for the re-construction of the proposed re-construction area set out above, and if funding applications to assist in bringing the estimated re-construction cost down to $6M are not successful, that staff be directed to reduce the boundaries of the proposed area for re-construction to fit within the $6M budget for 2024;
3. Direct that staff include the re-construction of the remaining portions of Queen Street be included no sooner than every 2 years following the 2024 re-construction area set out above;
4. Direct that staff make application to every available funding pot

available for downtown revitalization, whether provincially, federally, or through other organizations, to offset the anticipated municipal costs for the re-construction phases;

5. Approve the Spring Street conceptual re-design and direct staff to include the re-design in the Five Year Capital plan in a year deemed most suitable by staff.

9.3.2 Five-Year Capital Transportation Program

134 - 140

A report of the Director of Engineering is attached for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Hollingsworth
Resolved that the report of the Director of Engineering dated August 28, 2023 concerning the 2024–2028 Five-Year Capital Transportation Program be received and that Council approve the 2024–2028 programs in principle; that the Engineering Division proceed with any local improvement notices for 2024 works; that staff procure consulting engineering services for projects not to be completed by in-house staff; and that the resurfacing of Great Northern Road between Third Line and Wigle Street be the designated project for the City's application to the 2024 Connecting Link Program, be approved.

9.4 Fire Services

9.5 Legal

9.6 Planning

9.6.1 A-8-23-Z 534 Third Line East (Reghold Corporation)

141 - 235

A report of the Junior Planning is attached for the consideration of Council.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that the report of the Junior Planner dated August 28, 2023 concerning Zoning By-law Amendment Application A-8-23-Z be received and that Council approve the application as follows:

Rezone the subject property from Rural Area (RA) Zone to Medium Industrial (M2.S) Zone with a Special Exception to:

1. Permit the use of Road Transportation and Warehousing only and accessory uses thereto; and
2. Deem the subject property an area of Site Plan Control.

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

9.6.2 A-9-23-Z 207 Old Garden River Road (Daniel Fremlin Holdings) 236 - 252

A report of the Junior Planner is attached for the consideration of Council.

Mover Councillor A. Caputo

Seconder Councillor S. Spina
Resolved that the report of the Junior Planner dated August 28, 2023 concerning rezoning application A-9-23-Z be received and that Council approve the application as follows:

Rezone the northwest portion of the subject property, located at 207 Old Garden River Road, defined as 72.8 metres of frontage along Old Garden River Road and a depth of 36.5 metres, and shown on the attached map from Single Detached Residential Zone (R2) to Low Density Residential Zone (R3.S) with a Special Exception to reduce the required parking ratio of 1.25 to 1 space per dwelling unit.

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

9.7 Boards and Committees

9.7.1 CAO Recruitment Consultant Selection 253 - 254

A report of Mayor Shoemaker, Chair of the CAO Selection Committee is attached for the consideration of Council.

Mover Councillor R. Zagordo

Seconder Councillor S. Hollingsworth
Resolved that the Report of Mayor Shoemaker dated August 28, 2023 concerning the recommended search consultant for the CAO selection process be received and that City Council authorize the hiring of Feldman Daxon to assist in the recruitment of a new CAO at their listed fee of $33,000 + HST.

10. Unfinished Business, Notice of Motions and Resolutions Placed on Agenda by Members of Council

10.1 Northern Ontario School of Medicine University

Mover Councillor S. Kinach

Seconder Councillor M. Scott
Whereas the City of Sault Ste. Marie recognizes the urgent need for physicians in Northern Ontario as it is experiencing a shortage of trained physicians and specialist physicians; and

Whereas life expectancy of Northern residents is more than two years lower than the Ontario average, and that mental health and addictions are at a four times higher rate; and

Whereas one in eight Northern residents does not have access to a family doctor and many must travel long distances to access health-care services, representing the failure of health care to many in Northern Ontario; and

Whereas communities in Northern Ontario require access to equitable health care, especially underserved rural, Indigenous, and Francophone communities; and

Whereas Northern Ontario School of Medicine (NOSM) University's current base funding rates have not been increased sufficiently to accommodate growth and expansion, or recognition of the added costs stemming from the medical school becoming an independent university;

Now Therefore Be It Resolved that with the announcement of unprecedented medical expansion for the NOSM University's medical programs, the City of Sault Ste. Marie urges the Provincial government to grant NOSM University's request for a permanent increase in annual base funding of $4.0 million before the end of the 2023-2024 fiscal year so it can continue to deliver on the mandate that was originally established by this Provincial Government in response to the needs of Northern municipalities;

Further Be It Resolved that a copy of this resolution be forwarded to Premier Doug Ford, Minister of Health and Deputy Premier Sylvia Jones, Minister of Colleges and Universities Jill Dunlop, MPPs Greg Rickford, Vic Fedeli, George Pirie, Ross Romano, Kevin Holland; Association of Municipalities of Ontario, Northern Ontario School of Medicine University, Federation of Northern Ontario Municipalities, Northern Ontario Academic Medicine Association and the leaders of the opposition parties of Ontario.

11. Committee of the Whole for the Purpose of Such Matters as are Referred to it by the Council by Resolution

12. Adoption of Report of the Committee of the Whole

13. Consideration and Passing of By-laws

Mover Councillor R. Zagordo

Seconder Councillor S. Hollingsworth
Resolved that all By-laws under item 12 of the Agenda under date August 28, 2023 be approved.

13.1 By-laws before Council to be passed which do not require more than a simple majority

13.1.1 By-law 2023-123 (Zoning) 188 Bloor Street West (Warmcrete Homes Inc. – Brahm Verhoeckx) 255 - 257

Council report was passed by Council resolution July 31, 2023.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-123 being a by-law to amend Sault Ste. Marie Zoning By-laws 2005-150 and 2005-151 concerning lands located at 188 Bloor Street West (Warmcrete Homes Inc. – Brahm Verhoeckx) be passed in open Council this 28th day of August, 2023.

13.1.2 **By-law 2023-133 (Agreement) Canadian Pacific Railway Company (CP) Welcome Sign Agreement (Trunk Road)** 258 - 304

A report from the Assistant City Solicitor/Senior Litigation Counsel is on the Agenda.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-133 being a by-law to authorize the execution of the Agreement between the City and Canadian Pacific Railway Company (CP) for permission to maintain a welcome sign on CP's property be passed in open Council this 28th day of August, 2023.

13.1.3 **By-law 2023-137 (Zoning) 16 Caesar Road (786211 Ontario Limited – Mario Adamo)** 305 - 306

Council Report was passed by Council resolution on July 31, 2023.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-137 being a by-law to amend Sault Ste. Marie Zoing By-law 2005-150 concerning lands located at 16 Caesar Road (786211 Ontario Limited – Mario Adamo) be passed in open Council this 28th day of August, 2023.

13.1.4 **By-law 2023-138 (DC) 16 Caesar Road (786211 Ontario Limited – Mario Adamo)** 307 - 309

Council Report was passed by Council resolution on July 31, 2023.

Mover Councillor R. Zagordo

Seconder Councillor S. Spina
Resolved that By-law 2023-138 being a by-law to designate the lands located at 16 Caesar Road an area of site plan control (786211 Ontario Limited – Mario Adamo) be passed in open Council this 28th day of August, 2023.

13.1.5 **By-law 2023-139 (Zoning) 1281 Great Northern Road (CS Engineers – Tom Spriet)** 310 - 312

Council report was passed by Council resolution July 31, 2023.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-139 being a by-law to amend Sault Ste. Marie Zoning By-laws 2005-150 and 2005-151 concerning lands located at 1281 Great Northern Road (CS Engineers – Tom Spriet) be passed in open Council this 28th day of August, 2023.

13.1.6 By-law 2023-140 (Zoning) 92 Manitou Drive (Manitou Developments Inc. – Caicco/Jones/Nogalo/Zavitz) 313 - 316

Council Report was passed by Council resolution on July 31, 2023.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-140 being a by-law to amend Sault Ste. Marie Zoning By-laws 2005-150 and 2005-151 concerning lands located at 92 Manitou Drive (Manitou Developments Inc. – Caicco/Joes/Nogalo/Zavitz) be passed in open Council this 28th day of August, 2023.

13.1.7 By-Law 2023-142 (By-Law Enforcement Officers) Property Standards Appointment 317 - 318

A report from the Chief Building Official is on the Agenda.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-Law 2023-142 being a by-law to appoint by-law enforcement officers to enforce The Corporation of the City of Sault Ste. Marie Property Standards By-law as Property Standard Officers and enforce various other by-laws of The Corporation of the City of Sault Ste. Marie as By-law Enforcement Officer be passed in open Council this 28th day of August, 2023.

13.1.8 By-law 2023-143 (Agreement) Greenhouse Gas Reduction Pathway Feasibility Study Initiative (Green Municipal Fund) 319 - 344

A report from the Sustainability Coordinator is on the Agenda.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-143 being a by-law to authorize the Greenhouse Gas Reduction Pathway Feasibility Study initiative be passed in open Council this 28th day of August, 2023.

13.1.9 By-law 2023-145 (Streets) By-law 2008-131 Amendments 345 - 346

A report from the Solicitor is on the Agenda.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-145 being a by-law to amend By-law 2008-131 being a by-law respecting streets and related matters be passed in open Council this 28th day of August, 2023.

13.1.10 By-law 2023-146 (Parks) By-law 80-128 Amendment 347 - 347

A report from the Solicitor is on the Agenda.

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-146 being a by-law to amend By-law 80-128 (being a by-law for the use, regulation, protection and government of the municipal parks in the City of Sault Ste. Marie) be passed in open Council this 28th day of August, 2023.

13.2 By-laws before Council for FIRST and SECOND reading which do not require more than a simple majority

13.2.1 By-law 2023-144 (Agreement) Enbridge Gas Franchise Agreement 348 - 358

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that By-law 2023-144 being a by-law to authorize a franchise agreement between the City and Enbridge Gas Inc. be read a FIRST and SECOND time in open Council this 28th day of August, 2023.

13.3 By-laws before Council for THIRD reading which do not require more than a simple majority

14. Questions By, New Business From, or Addresses by Members of Council Concerning Matters Not Otherwise on the Agenda

15. Closed Session

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that this Council move into closed session to discuss one item concerning the security of property; and three items concerning the disposition of land;

Further Be It Resolved that should the said closed session be adjourned, the Council may reconvene in closed session to continue to discuss the same matters without the need for a further authorizing resolution.

Municipal Act R.S.O. 2002 – section 239 2 (a) security of property of the municipality; 239 2 (c) a proposed or pending acquisition or disposition of land

16. Adjournment

Mover Councillor A. Caputo

Seconder Councillor S. Hollingsworth
Resolved that this Council now adjourn.

REGULAR MEETING OF CITY COUNCIL

MINUTES

Monday, July 31, 2023
5:00 pm
Council Chambers and Video Conference

Present: Mayor M. Shoemaker, Councillor S. Hollingsworth, Councillor S. Spina, Councillor L. Dufour, Councillor L. Vezeau-Allen (by zoom until approximately 8:40 p.m.), Councillor A. Caputo, Councillor R. Zagordo, Councillor M. Bruni, Councillor S. Kinach, Councillor C. Gardi, Councillor M. Scott

Officials: M. White, R. Tyczinski, T. Vair, K. Fields, S. Schell, S. Hamilton Beach, B. Lamming, F. Coccimiglio, T. Vecchio, M. Zuppa, P. Tonazzo, C. Rumiel, S. Facey, S. Zuppa, J. Rogers, J. Kircal, A. Kenopic, J. Ricard

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1. Land Acknowledgement

2. Adoption of Minutes

Moved by: Councillor L. Dufour
Seconded by: Councillor M. Bruni

Resolved that the Minutes of the Regular Council Meeting of July 10, 2023 be approved.

Carried

3. Questions and Information Arising Out of the Minutes and not Otherwise on the Agenda

4. Declaration of Pecuniary Interest

4.1 Councillor S. Spina – Downtown Security Patrols

Employer is contracted by the City.

5. Approve Agenda as Presented

Moved by: Councillor L. Vezeau-Allen
Seconded by: Councillor S. Kinach

Resolved that the Agenda for July 31, 2023 City Council Meeting as presented be approved.

Carried

6. Presentations

6.1 Homelessness Update

Mike Nadeau, Executive Director, Sault Ste. Marie District Social Services Administration Board; Annette Katajamaki, Chief Executive Officer, Canadian Mental Health Association Algoma; Dorothy Coad, Niigaaniin Services were in attendance.

6.2 Queen Street Value Management Opportunities

Carl Rumiel, Director of Engineering was in attendance.

6.2.1 Downtown Association

Nicholas Rosset, Chair was in attendance.

7. Communications and Routine Reports of City Departments, Boards and Committees – Consent Agenda

Moved by: Councillor L. Dufour
Seconded by: Councillor M. Bruni

Resolved that all the items listed under date July 31, 2023 – Agenda item 7 – Consent Agenda be approved as recommended.

Carried

7.1 Second Quarter Financial Report – June 30, 2023

The report of the Manager of Finance was received by Council.

Moved by: Councillor L. Vezeau-Allen
Seconded by: Councillor M. Bruni

Resolved that the report of the Manager of Finance dated July 31, 2023 concerning Second Quarter Financial Report to June 30, 2023 be received as information

Carried

7.2 Seniors Active Living Transit Pilot

The report of the Director of Community Services was received by Council.

Moved by: Councillor L. Vezeau-Allen
Seconded by: Councillor M. Bruni

Resolved that the report of the Director, Community Services dated July 31, 2023, concerning the Seniors Active Living Transit Pilot be received and that the six month pilot be approved.

Carried

7.3 Tales from the Void: Noise By-Law 4100 Exemption

Two reports of the Film, TV and Digital Media Coordinator were received by Council.

The relevant By-law 2023-132 is listed under item 12 of the Minutes.

7.4 Tourism Development Fund Applications – June and July 2023

The report of the Manager of Travel and Tourism was received by Council.

Moved by: Councillor L. Vezeau-Allen
Seconded by: Councillor S. Kinach

Resolved that the report of the Manager of Travel and Tourism dated July 31, 2023 concerning Tourism Development Fund Applications for June and July 2023 be received and that the recommendation of the Tourism Sault Ste. Marie Board of Directors to allocate $9,000 as detailed below be approved:

1. Canadian Bushplane Heritage Centre Holiday Craft Show – $5,000
2. APR Welding Academy Welding Competition – $2,000
3. ARCH Great Bucket List Cycle – $2,000

Carried

7.5 Multi-Year Replacement Plan – Small Engine Machinery

The report of the Deputy CAO, Public Works and Engineering Services was received by Council.

Moved by: Councillor L. Vezeau-Allen
Seconded by: Councillor S. Kinach

Resolved that the report of the Deputy CAO of Public Works and Engineering Services dated July 31, 2023 concerning the feasibility of replacing any small engine equipment with electric small engine equipment as it reaches the end of useful life be received as information.

Carried

7.6 Sault Ste. Marie Housing Needs Assessment 2023-2025

The report of the Junior Planner was received by Council.

Mark Menean was in attendance to provide comments to Council.

Moved by: Councillor L. Dufour
Seconded by: Councillor S. Kinach

Resolved that the report of the Junior Planner dated July 31, 2023 concerning the Sault Ste. Marie Housing Needs Assessment 2023-2025 be received and that staff be directed to submit an application to the CMHC Housing Accelerator Fund.

Carried

7.7 Notice of Circular Material Ontario's Recycling Contractor for Sault Ste. Marie – GFL

The report of the Director of Public Works was received by Council.

Moved by: Councillor L. Dufour
Seconded by: Councillor M. Bruni

Resolved that the report of the Director of Public Works dated July 31, 2023 concerning further details about the transition of the City's recycling program and the notification of the contract between Circular Materials Ontario and GFL Environmental Inc. for all recycling services in Sault Ste. Marie following the City's transition date of September 30, 2023 be received as information.

Carried

7.8 Scrap Metal Facility Licensing By-law

Moved by: Councillor L. Dufour
Seconded by: Councillor M. Bruni

Resolved that the report of the Solicitor/Prosecutor dated July 31, 2023 concerning a Scrap Metal Facility Licensing By-law and the attached draft By-law be received as information.

Carried

8. Reports of City Departments, Boards and Committees

8.1 Administration

8.2 Corporate Services

8.3 Community Development and Enterprise Services

8.4 Public Works and Engineering Services

8.4.1 Queen Street – Value Management Opportunities

The report of the Director of Engineering was received by Council.

Moved by: Councillor L. Dufour
Seconded by: Councillor M. Bruni

Resolved that the report of the Director of Engineering dated July 31, 2023 concerning Queen Street – Value Management Opportunities be received and that Council approve, in principle, the conceptual design of Queen Street between Pim Street and Gore Street.

Recommendations for Queen Street Improvements to be included in the next Five-Year Capital Transportation Program will appear on the August 28, 2023 Council Agenda.

Postponed

Postponement:
Moved by: Councillor S. Spina
Seconded by: Councillor L. Dufour

Resolved that this motion be postponed to August 28, 2023.

	For	Against	Conflict	Absent
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth		X		
Councillor S. Spina	X			
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen				X
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott		X		
Results	**8**	**2**	**0**	**1**

Carried

8.4.1.1 Alternative Motion

Moved by: Councillor L. Dufour
Seconded by: Councillor C. Gardi

Resolved that the report of the Director of Engineering dated July 31, 2023 concerning Queen Street Value Management Opportunities be received and that Council:

1. Approve in principle the conceptual re-design of Queen Street between Pim Street and Gore Street;
2. Approve in principle the proposed re-construction of Queen Street between, at most, East Street and Bruce Street, to be included in the Five Year Capital Plan, and be slated for re-construction in 2024, at an estimated cost of no greater than $6M, to be presented for Council's consideration at the August 28, 2023 City Council meeting; further, if the $6M proposed re-construction costs of East Street to Bruce Street is insufficient for the re-construction of the proposed re-construction area set out above, and if funding applications to assist in bringing the estimated re-construction cost down to $6M are not successful, that staff be directed to reduce the boundaries of the proposed area for re-construction to fit within the $6M budget for 2024;
3. Direct that staff include the re-construction of the remaining portions of Queen Street be included no sooner than every 2 years following the 2024 re-construction area set out above;
4. Direct that staff make application to every available funding pot available for downtown revitalization, whether provincially, federally, or through other organizations, to offset the anticipated municipal costs for the re-construction phases;
5. Approve the Spring Street conceptual re-design and direct staff to include the re-design in the Five Year Capital plan in a year deemed most suitable by staff.

	For	Against	Conflict	Absent
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina		X		
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen				X
Councillor A. Caputo		X		
Councillor R. Zagordo		X		

Councillor M. Bruni	X			
Councillor S. Kinach		X		
Councillor C. Gardi	X			
Councillor M. Scott		X		
Results	**5**	**5**	**0**	**1**

Tied, Defeated

8.5 Fire Services

8.6 Legal

8.7 Planning

8.7.1 A-7-23-Z 16 Caesar Road (786211 Ontario Limited c/o Mark A. Lepore)

Moved by: Councillor L. Dufour
Seconded by: Councillor S. Kinach

Resolved that the report of the Planner dated July 31, 2023 concerning Rezoning Application A-7-23-Z be received and that Council rezone a 0.55 metre strip of land, shown as 'area to be rezoned' on the attached subject property map, from Medium Density Residential Zone (R4.S 419) with special exception 419 to General Commercial Zone (C4.S 419) with Special Exception 419, which permits:

1. A parking lot in association with 149 Trunk Road only;
2. Access from Trunk Road only; and
3. No other uses for a C4 zone.

And that the 0.55 metre strip being rezoned on 16 Caesar Road be deemed subject to site plan control as per section 41 of the *Planning Act*.

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

	For	**Against**	**Conflict**	**Absent**
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour	X			

Councillor L. Vezeau-Allen	X			
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**11**	**0**	**0**	**0**

Carried

8.7.2 A-5-23-Z and 57T-23-501 92 Manitou Drive (Manitou Developments Inc.)

The report of the Planner was received by Council.

Vanessa Smith, Planner and John McDonald, Project Manager, Tulloch Engineering, were in attendance on behalf of the applicant.

Carol Martin, 134 Breton Road; and Jessica Fischer, 100 Crawford Avenue spoke in favour of the application.

Derek Armstrong, 127 Anna Street; Elaine Robert, 80 Amy Avenue; Maytland Bye, 91 Greene Street; Douglas Harvey, 123 Anna Street; Noella Duff, 17 Greene Street and Clement Germain, 103 Greene Street spoke in opposition to the application.

Moved by: Councillor L. Dufour
Seconded by: Councillor S. Kinach

Resolved that the report of the Planner dated July 31, 2023 concerning Draft Plan of Subdivision 57T 23-501 to create 12 low-density residential lots (Lots 1-12), a medium density residential development block (Block 4), pedestrian access (Block 1), stormwater management (Block 2), and parkland to be transferred to the City as part of Parkland Dedication Requirements (Block 3), be approved subject to the conditions of draft approval outlined in Appendix A; and that the subject property be rezoned in the following manner:

1. Lots 1 to 12: Rezone from Institutional Zone (I) to Low Density Residential Zone (R3.S) with a “Special Exception” to, in addition to those uses permitted in an R3 zone:
    a. Permit one parking space in an exterior side yard setback for Lot 3;
    b. Reduce the front yard setback from 7.5 metres to 6 metres;
    c. Reduce the year yard setback from 10 metres to 9 metres; and

d. Reduce the required number of parking spaces from 1.25 to 1 space for any semi-detached dwelling unit; and

2. Blocks 1, 2 and 4: Rezone from Institutional Zone (I) to Medium Density Residential Zone (R4.S)H with a Holding Provision, subject to the following special exceptions:

   a. Restrict the number of dwelling units to no greater than 20 units;

   b. Restrict the height of any apartment building to no greater than 3 storeys;

   c. As per the Holding Provision, restrict any development until such a time that a stormwater management plan and a servicing study are submitted to the satisfaction of City Council.

3. Block 3: Rezone from Institutional Zone (I) to Parks and Recreation Zone (PR).

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

	For	Against	Conflict	Absent
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen	X			
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**11**	**0**	**0**	**0**
				Carried

8.7.3 A-4-23-Z 188 Bloor Street (Brahm Verhoeckx)

The report of the Junior Planner was received by Council.

Moved by: Councillor L. Vezeau-Allen
Seconded by: Councillor M. Bruni

Resolved that the report of the Junior Planner dated July 31, 2023 concerning Zoning By-law Amendment Application A-4-23-Z be received and that Council approve the application, subject to the following:

Rezone the subject property from Low Density Residential (R3) to Low Density Residential Zone (R3.S) with a special exception to, in addition to those uses permitted in a R3 zone:

1. Permit a Triplex;
2. Reduce the required exterior side yard setback from 4.5 metres to 3.0 metres for the triplex only;
3. Reduce the required number of parking spaces from 4 to 3 for the triplex only.

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

	For	**Against**	**Conflict**	**Absent**
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen	X			
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**11**	**0**	**0**	**0**

Carried

8.7.4 A-6-23-Z 1281 Great Northern Road (CS Engineers)

The report of the Junior Planner was received by Council.

Moved by: Councillor L. Dufour
Seconded by: Councillor S. Kinach

Resolved that the report of the Junior Planner dated July 31, 2023 concerning Zoning By-law Amendment Application A-6-23-Z be received and that Council approve the application, subject to the following:

Rezone the subject property from Highway Zone with special exception (HZ.S.160) to Highway Zone with an amended special exception (HZ.S.160 Amended) to, in addition to those uses permitted in a Highway Zone,

1. Permit Professional Scientific and Technical Services; and
2. Waive the surface treatment requirements outlined in Zoning By-law 2005-150, Section 5.2.2 for the Professional Scientific and Technical Services parking only.

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

	For	**Against**	**Conflict**	**Absent**
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen	X			
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**11**	**0**	**0**	**0**
				Carried

8.8 Boards and Committees

9. Unfinished Business, Notice of Motions and Resolutions Placed on Agenda by Members of Council

Moved by: Councillor A. Caputo
Seconded by: Councillor S. Kinach

Resolved that the rules of procedure be suspended to allow the meeting to exceed five hours in length.

	For	Against	Conflict	Absent
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen				X
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**10**	**0**	**0**	**1**
				Carried

9.1 Downtown Security Patrols

Councillor S. Spina declared a conflict on this item. (Employer is contracted by the City.)

Moved by: Councillor S. Hollingsworth
Seconded by: Councillor L. Dufour

Whereas from 2020 to 2022, the Downtown Association undertook overnight downtown security patrols in their business improvement area; and

Whereas in 2022, the City of Sault Ste. Marie took over responsibility for the cost of the downtown security patrols as a 6-month pilot project, (known as the Downtown Security Pilot Program – or DSPP); and

Whereas the DSPP was not funded on a permanent basis when it expired in the fall/winter of 2022; and

Whereas the cost of continuing the DSPP on an ongoing basis was $105,378 per annum, as set out in the Council report of December 12, 2022, with a contribution from the Downtown Association; and

Whereas dynamic patrols undertaken by the Sault Ste. Marie Police Service have been successful since implemented in June 2023, but are only expected to be conducted throughout the summer months; and

Whereas the success of the downtown police dynamic patrols has highlighted the need for a permanent security or police presence in the downtown; and

Whereas the presence of police or security in the downtown area will assist in the feeling of safety residents have when in the downtown, and encourage more people to patronize downtown businesses;

Now Therefore Be It Resolved that staff be requested to bring forward a report, by August 28, 2023 including:

1. Options for in-year funding of the Downtown Security Patrols for the remainder of 2023 once the dynamic police patrols end;
2. Recommended hours of operation for the downtown security patrols;
3. The Downtown Association's willingness to participate in and fund a portion of the patrols; and
4. A referral of the ongoing cost of the program to the 2024 budget.

	For	**Against**	**Conflict**	**Absent**
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina			**X**	
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen				X
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			

Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**9**	**0**	**1**	**1**

Carried

9.2 Queen Street Improvements

Moved by: Councillor S. Spina
Seconded by: Councillor S. Hollingsworth

Whereas the City of Sault Ste. Marie continues to work with citizens, partners and businesses to revitalize the downtown core creating downtown as a “place to go” rather than a place to “go through”; and

Whereas the 1.8-kilometer area of Queen Street East from Pim Street to Gore Street has not had a significant upgrade or change in almost 50 years; and

Whereas strategic investments in the revitalization of this area will support commercial business, residential densification, and increased tourism in Sault Ste. Marie; and

Whereas a report regarding a proposed plan to reconstruct this section of Queen Street was presented to City Council by staff on July 10, 2023; and

Whereas that report stimulated meaningful conversation regarding the project with additional ideas for the reconstruction of this area proposed by stakeholders and community members; and

Now Therefore Be It Resolved that staff be directed to continue work on the Queen Street reconstruction plan and present Council with a number of options to consider for the redevelopment of this area. The plan(s) should include items for discussion such as but not limited to:

- A plan for 2-way traffic on Queen Street;
- A plan to remove all parking from Queen Street and move it to perpendicular streets and existing parking lots;
- A plan to include areas for delivery vehicles to use side streets or cut-in sections on Queen Street in front of businesses;
- A plan to increase the use of outdoor patios/commercial space for businesses;
- A plan to use the existing infrastructure such as the Hub Trail and the Bay Street multi-use path, connecting links in the downtown core, back lots, and north-south streets to

be identified as cycling/pedestrian routes to connect businesses and city services to the path moving them away from conflict with motor vehicles;

- A plan to make downtown more friendly to pedestrians block by block to promote easier and multiple commercial visits;
- A plan to use trial periods for ideas such as reduced speed limits, two-way traffic and cycle/pedestrian routes to gauge their success before implementing the full plan;
- A plan to increase residential/rental housing units in the downtown core,

Further Be It Resolved that this/these report(s) come back to Council in January of 2024.

	For	Against	Conflict	Absent
Mayor M. Shoemaker		X		
Councillor S. Hollingsworth		X		
Councillor S. Spina	X			
Councillor L. Dufour		X		
Councillor L. Vezeau-Allen				X
Councillor A. Caputo	X			
Councillor R. Zagordo		X		
Councillor M. Bruni		X		
Councillor S. Kinach		X		
Councillor C. Gardi		X		
Councillor M. Scott		X		
Results	**2**	**8**	**0**	**1**

Defeated

9.3 Rainbow Bridge Proposal

Moved by: Councillor A. Caputo
Seconded by: Councillor S. Spina

Whereas pets and pet owners are among some of the most avid users of our outdoor amenities and walking trails; and

Whereas our pets play a vital role in the family dynamic in many households; and

Whereas memorializing our loved ones is an important tradition that provides many with closure and peace; and

Whereas "Crossing The Rainbow Bridge" is a widely used term associated with the passing of a beloved pet;

Now Therefore Be It Resolved that staff be requested to report back to Council on dedicating a bridge within the Hub Trail system as “The Rainbow Bridge”. This bridge will be adorned with a plaque reading The Rainbow Bridge poem and will be equipped to allow citizens to hang their departed pet’s tags to memorialize them, while granting their owner’s a spot to fondly remember them.

	For	Against	Conflict	Absent
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour				X
Councillor L. Vezeau-Allen				X
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**9**	**0**	**0**	**2**

Carried

9.4 Dolly Parton's Imagination Library

Moved by: Councillor A. Caputo
Seconded by: Councillor R. Zagordo

Whereas Dolly Parton’s Imagination Library is a book gifting program that mails free, high quality books to children from birth to age five, no matter their family’s income and was recently expanded to included Canadian cities; and

Whereas the government of Canada website states that removing barriers to literacy would greatly improve all children's chances at success, encourage children to take more initiative, have higher self esteem, stretch their imagination, and show that books are an important way to get information; and

Whereas supporting this initiative aligns with the corporate strategic goal to promote quality of life advantages within our youngest demographic; and

Whereas investing in our youth is a key to continued growth within our community that will have positive impacts on our citizens for generations;

Now Therefore Be It Resolved that staff review and report back to Council concerning the process of enrolling the City of Sault Ste Marie in Dolly Parton's Imagination Library;

Further it be resolved that staff seek a possible partnership with not for profit organization(s) to help finance this initiative.

	For	Against	Conflict	Absent
Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour				X
Councillor L. Vezeau-Allen				X
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**9**	**0**	**0**	**2**

Carried

9.5 Minister of Energy – Independent Electricity System Operator

Moved by: Councillor A. Caputo
Seconded by: Councillor M. Scott

Whereas Sault Ste. Marie City Council declared our community as the, “Alternative Energy Capital of North America” in 2008; and

Whereas Minister Todd Smith wrote a letter of commendation to the City of Sault Ste. Marie as one of Ontario’s Energy Champions in March 2023; and

Whereas Sault Ste. Marie will be the first community in Canada to launch a community-wide smart grid; and

Whereas the City desires to continue as a leader in the alternative energy sector; and

Whereas the Government of Ontario’s, “Powering Ontario’s Growth” plan commits to working towards a 100 per cent clean grid; and

Whereas the City saw numerous proponents advance projects for the previous, expedited IESO procurement process for renewable energy generation and storage projects with none being approved in Northern Ontario; and

Whereas the City has learned that the IESO has determined that energy projects from Sault Ste. Marie and area will not be eligible to participate in the LT-1 RFP process due to “deliverability issues”; and

Whereas the Algoma Steel EAF project requires a significant electricity supply; and

Whereas Algoma Steel is required to utilize the LSP gas plant to cover electricity requirements for their operations until transmission line upgrades are completed and possibly beyond; and

Whereas the use of gas plant incurs greater carbon tax than the use of electricity; and

Whereas without added capacity, not only will it delay full implementation of the EAF’s, but also cripple our ability to diversify our economy, prioritizing southern Ontario development over Northern Ontario’s continued sustainability; and

Whereas the transmission grid is in the process of being upgraded which will enable the deliverability of any generation/storage projects in our region shortly after LT-1 projects are anticipated to be activated; and

Whereas Sault Ste. Marie is part of the Ontario grid and our requirements should not be placed behind those of southern Ontario;

Now Therefore Be It Resolved that City Council request the Mayor to write to the Minister of Energy and President and CEO of IESO to request a meeting and enable the inclusion of Sault Ste. Marie and region within the LT-1 procurement, and future procurements, of renewable energy and storage projects in Ontario.

For Against Conflict Absent

Mayor M. Shoemaker	X			
Councillor S. Hollingsworth	X			
Councillor S. Spina	X			
Councillor L. Dufour	X			
Councillor L. Vezeau-Allen				X
Councillor A. Caputo	X			
Councillor R. Zagordo	X			
Councillor M. Bruni	X			
Councillor S. Kinach	X			
Councillor C. Gardi	X			
Councillor M. Scott	X			
Results	**10**	**0**	**0**	**1**

Carried

10. Committee of the Whole for the Purpose of Such Matters as are Referred to it by the Council by Resolution

11. Adoption of Report of the Committee of the Whole

12. Consideration and Passing of By-laws

12.1 By-laws before Council to be passed which do not require more than a simple majority

12.1.1 By-Law 2023-132 (Regulations) Noise Exemption Film Production Tales from the Void

The report of the Film, TV and Digital Media Coordinator was received by Council.

Moved by: Councillor L. Dufour
Seconded by: Councillor S. Kinach

Resolved that By-Law 2023-132 being a by-law to exempt the various locations of filming the production *Tales From the Void Season One*, between August and September 2023 from the Noise Control By-law 80-200 be passed in open Council this 31st day of July, 2023.

Carried

12.2 By-laws before Council for FIRST and SECOND reading which do not require more than a simple majority

12.3 By-laws before Council for THIRD reading which do not require more than a simple majority

13. Questions By, New Business From, or Addresses by Members of Council Concerning Matters Not Otherwise on the Agenda

14. Closed Session

Moved by: Councillor L. Dufour
Seconded by: Councillor M. Bruni

Resolved that this Council move into closed session to discuss one item concerning proposed disposition of land; and one item relating to a plan to be applied to negotiations;

Further Be It Resolved that should the said closed session be adjourned, the Council may reconvene in closed session to discuss the same matters without the need for a further authorizing resolution.

(Municipal Act section 239(2)(c)a proposed or pending acquisition or disposition of land by the municipality or local board; section 239(2)(k) a position, plan, procedure, criteria or instruction to be applied to any negotiations carried on or to be carried on by or on behalf of the municipality or local board)

Carried

15. Adjournment

Moved by: Councillor L. Dufour
Seconded by: Councillor S. Kinach

Resolved that this Council now adjourn.

Carried

_____

Mayor

_____

City Clerk

Downtown Security Membership Survey

DOWNTOWN ASSOCIATION

Do you feel a private security presence servicing the Membership would add to the safety and enjoyment of the Downtown?



The other 9% felt that we needed Police Services and not private security

Which do you consider the highest priority?

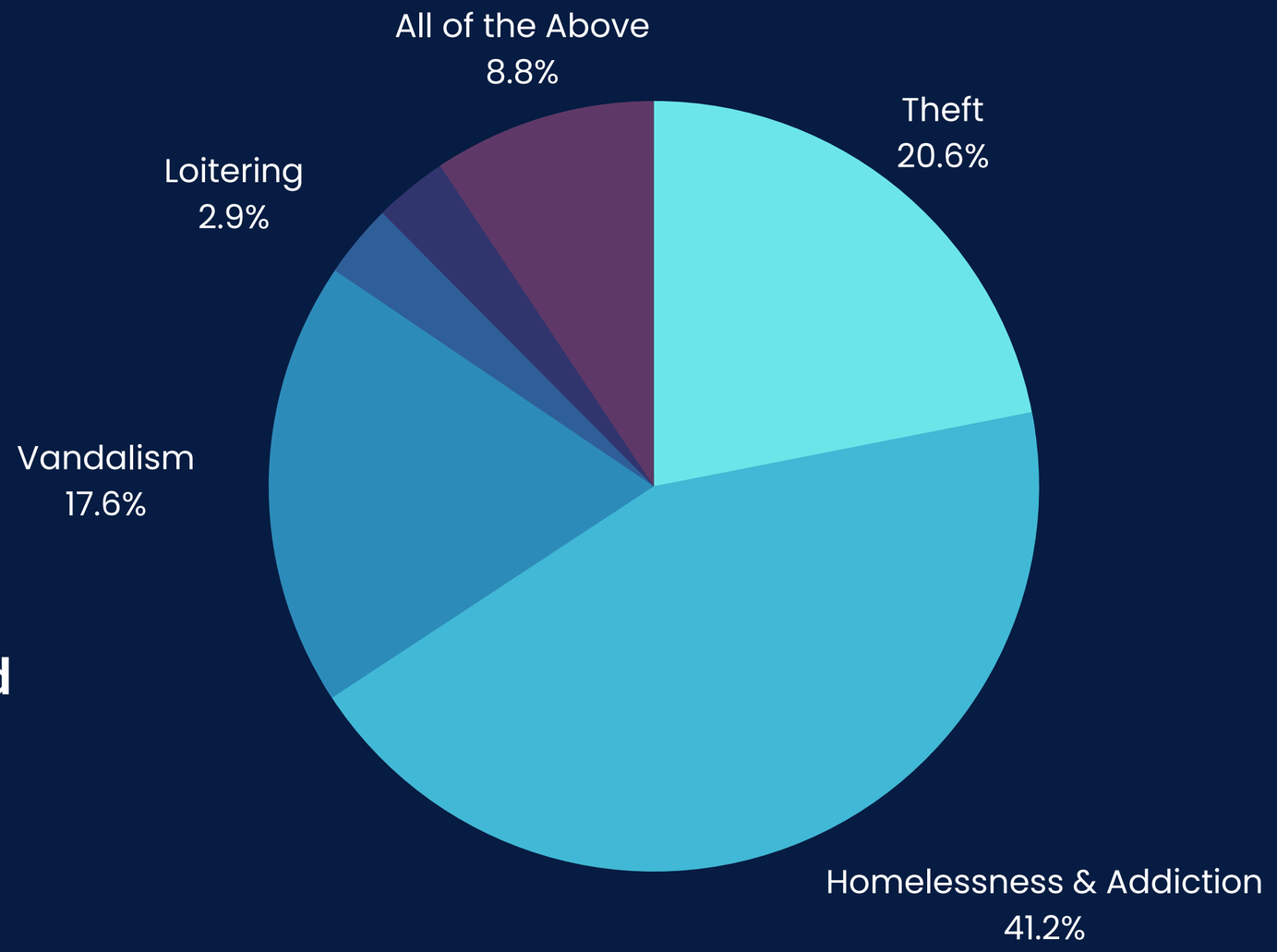


Overnight Security Service
23.5%

Daytime Security Service
17.6%

Mixed Daytime and Overnight Security Service
58.9%

What is your main area of concern?



2.9% Were concerned about Break and Enters

2.9% Were concerned about Loitering

Who should contribute financially to the program?

DTA & the City of Sault Ste. Marie
38.2%

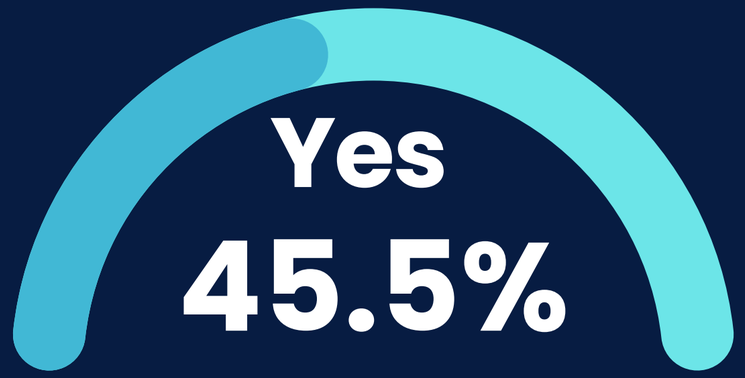


The City of Sault Ste. Marie
61.8%

Are you aware of the Downtown Ambassador Program?



Are you aware of the Homelessness Prevention and Outreach Team?



How are we promoting the Downtown Ambassador Program?

- Small business cards were created with the Downtown Ambassador phone number and hours
- Ambassador Program poster
- Social Media Content is posted regularly
- Pursuing an Educational Collaboration with Social Services



Are there any steps you feel the Downtown Association or the City of Sault Ste. Marie can take to improve the safety and security of the Downtown?


More Resources/Funding for people living with Substance Use Disorder


Create a perception of positivity instead of negativity and danger


Be consistent with the services provided in our community


Seek assistance from Provincial and Federal Governments for more funding and harsher criminal penalties


Lobby for complete legalization of addictive substances so that Substance Use Disorder can become a completely open public healthcare issue and not a major security and criminal justice issue

- Light the alleyways and play classicial music at spots where loitering is common
- More research from cities who are seeing successes working with their vulnerable populations and an attempt to replicate their services
- Completing the Streetscape Project to make Downtown feel less "Rough around the edges"
- More Private Security
- More Police Presence

In conclusion:

It is clear from the feedback that our Membership is calling to the Downtown Association and the City of Sault Ste. Marie to work together in creating a safe, vibrant, and revitalized Downtown where everyone can feel welcome and accepted, and our businesses and residents can thrive.

LETTER OF INTENT BETWEEN THE QUEENSTOWN ASSOCIATION ("DTA") AND THE CORPORATION OF THE CITY OF SAULT STE. MARIE ("City")

(DTA and City may be referred to individually as a "party" and collectively as "parties.")

August 17, 2023

RE: DOWNTOWN SECURITY PATROLS

This Letter of Intent ("LOI") outlines the agreement of the parties to participate in the implementation of a permanent police or security presence in the downtown area. This LOI indicates the DTA's willingness to participate in and fund a portion of the patrols.

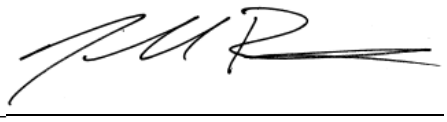
The below terms are agreeable to the parties and the parties intend as follows:

- The DTA will participate and fund a portion of the Downtown Security Patrols program.
- The City shall issue a Request for Proposal for the Downtown Security Patrols to private security providers to allow vendors to describe how their services, methods, equipment, or products can address and/or meet the specific needs of the City and the DTA.
- The DTA will provide recommended hours of operation for the downtown security patrols.
- DTA approval of this program is contingent upon both the approval by Sault Ste. Marie City Council at an open, public meeting (currently scheduled for August 28, 2023) and the approval of the DTA's Board of Directors at an open, public meeting (currently scheduled for September 13, 2023).

This Letter is intended to be a *nonbinding statement* and preliminary concept of the terms of the proposed transactions. It is subject to the preparation of other agreements reflecting the terms and conditions set forth in this LOI and other terms that are agreed to by the parties.

Accepted and agreed to by:

Queenstown Association:

By: 

Its: Board Chair

The Corporation of the City of Sault Ste. Marie:

By: _____

Its: _____

Ministry of Municipal Affairs and Housing

Office of the Minister
777 Bay Street, 17th Floor
Toronto ON M7A 2J3
Tel.: 416 585-7000

Ministère des Affaires municipales et du Logement

Bureau du ministre
777, rue Bay, 17e étage
Toronto ON M7A 2J3
Tél. : 416 585-7000

Ontario

234-2023-4155

August 22, 2023

Your Worship
Mayor Matthew Shoemaker
City of Sault Ste. Marie
mayor.shoemaker@cityssm.on.ca

Dear Mayor Shoemaker,

Subject: Municipal Housing Pledges and Targets, Strong Mayor Powers and Building Faster Fund

City of Sault Ste. Marie: 1,500 Homes

All levels of government play an important role in solving Ontario's housing crisis. That is why, on June 16th of this year, I asked the City of Sault Ste. Marie, along with 20 other municipalities, to demonstrate its commitment to accelerate housing supply by identifying a locally appropriate housing target (i.e., new housing units) to meet current and future housing needs to 2031; and to develop a Municipal Housing Pledge to increase and accelerate housing supply.

Further to my letter in June, the Ministry has now set a specific housing target for the City of Sault Ste. Marie of 1,500 new homes constructed in your community by 2031. I am asking you, as head of council, to respond in writing by October 15, 2023 confirming your commitment to meet this target.

To further support municipalities in delivering much-needed housing, the government will also extend **Strong Mayor** powers to the 21 municipalities with newly assigned housing targets, provided that the head of council has committed in writing to meet their provincially assigned target.

To be clear, I am still requesting that your Municipality prepare and submit to the Ministry a **Housing Pledge** by December 15, 2023 that showcases the strategies and actions that it will take in order to achieve the above housing target. I encourage you to

complete this critical work without delay to help build the homes Ontarians need and deserve.

To demonstrate the government's support as you work toward this goal, on August 21, 2023, Premier Ford announced the new Building Faster Fund, a new three-year-$1.2 billion program to help municipalities meet or exceed the provincially assigned housing targets they have committed to achieve by 2031 as described in their housing pledge. The Building Faster Fund will provide up to $400 million over three years of financial support for municipalities that can be directed toward housing-enabling infrastructure and related costs that support community growth.

Funding under the program will be based on two key criteria. First, each municipalities' potential share of the $400 million annual allocation will be based on their target's share of the overall goal of 1.5 million homes in Ontario by 2031. Second, each municipalities' actual funding will be based on whether their annual housing performance is on track to meet its 2031 target. Municipalities on track to exceed their target based on annual housing performance will receive additional funding.

Ontario will be consulting with the Association of Municipalities of Ontario, the Housing Supply Action Plan Implementation Team, and the City of Toronto on the program design details of the Building Faster Fund, including eligible expenses and ways to track the progress of municipalities. Funding is anticipated to start in 2024-25 based on performance in 2023. I look forward to sharing more details in the near future.

Our government remains committed to addressing the policy and implementation barriers you may encounter as you develop your pledges. I encourage you to send any questions to Christina Thomas, the Ministry's Manager of Growth Planning, Data and Analysis, Christina.Thomas@ontario.ca.

As Ontario grows, we need to build more homes. I look forward to your support in ensuring that everyone – newcomers, young families and seniors – can afford a place to call home.

Sincerely,

Steve Clark
Minister
Ministry of Municipal Affairs and Housing

C: Hon. Nina Tangri, Associate Minister of Housing
Ross Romano, MPP Sault Ste. Marie
Kirstin Jensen, Deputy Chief of Staff, Minister's Office

Martha Greenberg, Deputy Minister
Sean Fraser, Assistant Deputy Minister, Planning and Growth Division
Joshua Paul, Assistant Deputy Minister, Market Housing Division
Caspar Hall, Assistant Deputy Minister, Local Government Division
Rachel Tyczinski, Clerk, City of Sault Ste. Marie
Malcolm White, CAO, City of Sault Ste. Marie

Info Sheet: Considerations in Developing Municipal Housing Pledge

The pledge is not intended to be a land-use planning document, and its development should not require external technical expertise. The format and language used in the pledge should be accessible to the general public. The pledge is intended to be approved by municipal councils and should help codify Council's commitment to meeting their municipal housing target.

Municipalities can leverage new and existing policy tools as they develop housing pledges and work towards their housing targets.

Below is a non-exhaustive list of potential strategies and actions that municipalities may include in developing their housing pledges. There may be additional opportunities based on local circumstances and the Province is interested in hearing about those ideas and creative solutions.

- Strategies to encourage and promote gentle intensification to enable and expedite additional residential units in existing residential areas
- Outline ways in which funding under provincial programs, such as the Streamline Development Approval Fund (SDAF) or Municipal Modernization Program (MMP), has been used to streamline existing municipal development approval processes
- Information on municipal development approval timelines and whether municipalities are being appealed for non-decisions
- Identify potential measures where current lack of infrastructure capacity (e.g., water/wastewater servicing) may limit future housing development
- Strategies to use municipal surplus lands
- Commitment to plan for, fund, and approve (where applicable) specific critical municipal infrastructure to support growth and new housing (e.g., water, wastewater, transit etc.), which may include expanded capacity as well as fully new facilities/assets
- Priorities for strategic and site-specific planning decisions to expedite housing in priority areas (e.g., around transit stations and in transit-serviced areas)
- Update zoning by-laws to permit a greater range of housing to be built without the need for costly and lengthy rezoning applications
- Municipalities may also consider existing tools such as the Community Infrastructure and Housing Accelerator, Community Planning Permit System, Major Transit Station Areas, and Protected Major Transit Station Areas.

Below are some of the potential components of a municipal housing pledge. Municipalities are free to choose, alter, or add any new components that seem reasonable. Pledges can be represented in the form of plain text, tables, charts, maps, or a combination of them.

- Municipal Housing Target
- Planned and proposed Municipal Initiatives
- Initiative Owner and Additional Stakeholders

- Context and Description of How Initiative Accelerates Housing
- Number of units per initiative and housing type
- Considerations (Barriers, Implementation, Risks, etc.)
- Potential Mitigation Strategies and Proposal to Accelerate Housing
- Potential Reporting and Monitoring Measures

Municipal housing pledges are intended to be public documents and it's anticipated that municipalities will post them online.

Municipalities can contact Ministry staff with any questions and for clarification.

The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Shelley J Schell, CPA, CA Chief Financial Officer and Treasurer
DEPARTMENT:	Corporate Services
RE:	2022 Audited Financial Statements

Purpose

The purpose of this report is to approve the attached draft Audited Consolidated Financial Statements and Trust Fund Statements for the year ended December 31, 2022.

Background

The Ontario Municipal Act, 2001, section 294.1 requires a municipality to prepare annual financial statement for each fiscal year in accordance with generally accepted accounting principles for local governments as recommended by the Public Sector Accounting Board of Chartered Professional Accountants of Canada.

The Ontario Municipal Act, 2001 also requires the City of Sault Ste. Marie to appoint an independent auditor to express an opinion as to whether the financial statements present fairly, in all material respects regarding the financial position and operating results.

On September 19, 2022, Council appointed KPMG as the municipal auditor for five years, effective with the 2022 fiscal year.

Analysis

The 2022 consolidated financial statements have received a clean audit opinion by the municipal auditor

The Ontario Ministry of Municipal Affairs and Housing (MMAH) has prepared a guide that provides examples and explanations of some of the typical information contained in the municipality's annual audited financial statements. The common language guide may assist councillors and other users of the financial statements in better understanding the information presented. Below is the link to the guide:

https://www.ontario.ca/document/tools-municipal-budgeting-and-long-term-financial-planning/common-language-guide-municipal-financial-statements

Financial Implications
Not applicable.

Strategic Plan / Policy Impact / Climate Impact
This is not an activity directly related to the Strategic Plan.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Chief Financial Officer and Treasurer dated August 28, 2023 concerning the 2022 Audited Financial Statements be received and that the Audited Consolidated Financial Statements and Trust Fund Statements for 2022 be approved.

Respectfully submitted,



Shelley J. Schell, CPA, CA
Chief Financial Officer/Treasurer
705.759.5355
s.schell@cityssm.on.ca

Consolidated Financial Statements of

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

Year ended December 31, 2022

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THE CORPORATION OF THE CITY OF SAULT STE. MARIE

Consolidated Financial Statements

Year ended December 31, 2022

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Management's Responsibility for the Consolidated Financial Statements

The accompanying consolidated financial statements of The Corporation of The City of Sault Ste. Marie (the "City") are the responsibility of the City's management and have been prepared in compliance with legislation, and in accordance with Canadian public sector accounting standards. A summary of the significant accounting policies are described in Note 1 to the consolidated financial statements. The preparation of the consolidated financial statements necessarily involves the use of estimates based on management's judgment, particularly when transactions affecting the current accounting period cannot be finalized with certainty until future periods.

The City's management maintains a system of internal controls designed to provide reasonable assurance that assets are safeguarded, transactions are properly authorized and recorded in compliance with legislative and regulatory requirements, and reliable financial information is available on a timely basis for preparation of the consolidated financial statements. These systems are monitored and evaluated by management.

The finance committee meets with management and the external auditors to review the consolidated financial statements and discuss any significant financial reporting or internal control matters prior to their approval of the consolidated financial statements.

The consolidated financial statements have been audited by KPMG LLP, independent external auditors appointed by the City. The accompanying Independent Auditor's Report outlines their responsibilities, the scope of their examination and their opinion on the City's consolidated financial statements.

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_____	_____
Chief Administrative Officer	Chief Financial Officer / City Treasurer

INDEPENDENT AUDITOR'S REPORT

To the Members of Council, Inhabitants and Ratepayers of The Corporation of The City of Sault Ste. Marie

Opinion

We have audited the consolidated financial statements of The Corporation of The City of Sault Ste. Marie (the "City"), which comprise:

- the consolidated statement of financial position as at December 31, 2022
- the consolidated statement of operations and accumulated surplus for the year then ended
- the consolidated statement of changes in net financial assets for the year then ended
- the consolidated statement of cash flows for the year then ended
- and notes to the consolidated financial statements, including a summary of significant accounting policies

(Hereinafter referred to as the "financial statements").

In our opinion, the accompanying financial statements present fairly, in all material respects, the consolidated financial position of the City as at December 31, 2022 and its consolidated results of operations, its consolidated changes in net financial assets and its consolidated cash flows for the year then ended in accordance with Canadian public sector accounting standards.

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the ***"Auditor's Responsibilities for the Audit of the Financial Statements"*** section of our auditor's report.

We are independent of the City in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada and we have fulfilled our other ethical responsibilities in accordance with these requirements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

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Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with Canadian public sector accounting standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the City's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the City or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the City's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion.

Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists.

Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit.

We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion.

  The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

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- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the City's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the City to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation
- Communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

Chartered Professional Accountants, Licensed Public Accountants

Sault Ste. Marie, Canada
August 28, 2023

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THE CORPORATION OF THE CITY OF SAULT STE. MARIE

Consolidated Statement of Financial Position

December 31, 2022, with comparative information for 2021

	2022	2021
Financial assets		
Cash and cash equivalents	$ 40,106,539	$ 57,286,630
Temporary investments (note 3)	20,932,517	20,626,012
Taxes receivable (note 4)	6,148,436	2,912,216
Accounts receivable	55,628,229	35,899,585
Investment in government business enterprises (note 9)	87,799,185	83,206,071
	210,614,906	199,930,514
Financial liabilities		
Accounts payable and accrued liabilities	33,422,578	28,562,380
Temporary advances from trust funds	160,930	343,025
Deferred revenue - obligatory reserve funds (note 5)	11,130,606	9,103,228
Net long-term liabilities (note 6):		
The Corporation of the City of Sault Ste. Marie	1,013,087	1,071,857
Net long-term liabilities (note 7):		
Public Utilities Commission of the City of Sault Ste. Marie	2,736,414	3,569,084
Net long-term liabilities (note 8):		
Sault Ste. Marie Public Library	1,915,026	2,040,632
Landfill closure and post closure liability (note 16)	34,769,598	36,861,764
Future employee benefit obligations (note 15)	39,119,022	39,565,001
	124,267,261	121,116,971
Net financial assets	86,347,645	78,813,543
Non-financial assets:		
Tangible capital assets (note 17)	597,696,471	556,892,634
Prepaid expenses	362,271	433,130
Inventories	3,750,561	3,239,177
	601,809,303	560,564,941
Contingent liabilities (note 14)		
Accumulated surplus (note 18)	$ 688,156,948	$ 639,378,484

The accompanying notes are an integral part of these consolidated financial statements.

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THE CORPORATION OF THE CITY OF SAULT STE. MARIE

Consolidated Statement of Operations and Accumulated Surplus

Year ended December 31, 2022, with comparative information for 2021

	Budget (note 10)	2022	2021
Revenue:			
Property taxation	$ 130,256,397	$ 131,230,262	$ 126,085,281
Taxation from other governments	4,501,741	4,578,570	4,490,232
Fees and user charges	53,337,287	53,196,971	47,315,725
Government grants (note 19)	34,025,430	51,574,549	45,987,373
Interest income	5,795,000	6,495,029	3,545,374
Other	2,181,117	6,602,580	4,220,066
Developer contributions (note 17)	-	2,445,091	1,971,335
Net income of government business enterprises (note 9)	-	4,793,114	3,525,983
Total revenue	230,096,972	260,916,166	237,141,369
Expenses:			
General government	18,288,472	15,270,234	17,204,173
Protection services	50,916,695	50,349,372	49,726,811
Transportation services	36,301,292	45,891,822	38,656,995
Environmental services	28,640,920	29,588,791	26,600,446
Health services	4,258,594	5,958,542	4,216,289
Social and family services	20,099,324	19,951,518	19,340,729
Recreation and cultural services	21,172,451	16,568,623	17,578,304
Planning and development	3,139,632	8,219,080	4,142,778
Amortization of tangible capital assets	22,078,042	22,050,255	21,143,830
Loss on disposal of tangible capital assets	-	381,631	200,521
Total expenses	204,895,422	214,229,868	198,810,876
Annual surplus before the undernoted	25,201,550	46,686,298	38,330,493
Landfill closure and post closure liability expense (recovery)	-	(2,092,166)	11,603,004
Annual surplus	25,201,550	48,778,464	26,727,489
Accumulated surplus, beginning of year	639,378,484	639,378,484	612,650,995
Accumulated surplus, end of year	$ 664,580,034	$ 688,156,948	$ 639,378,484

The accompanying notes are an integral part of these consolidated financial statements.

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THE CORPORATION OF THE CITY OF SAULT STE. MARIE

Consolidated Statement of Changes in Net Financial Assets

Year ended December 31, 2022, with comparative information for 2021

	Budget (note 10)	2022	2021
Annual surplus	$ 25,201,550	$ 48,778,464	$ 26,727,489
Acquisition of tangible capital assets	(48,530,850)	(63,379,288)	(58,450,018)
Amortization of tangible capital assets	22,078,042	22,050,255	21,143,830
Loss on sale of tangible capital assets	-	385,603	200,521
Proceeds on sale of tangible capital assets	-	139,593	151,257
	(1,251,258)	7,974,627	(10,226,921)
Change in prepaid expenses	-	70,859	(106,217)
Change in inventories	-	(511,384)	(339,728)
Change in net financial assets	(1,251,258)	7,534,102	(10,672,866)
Net financial assets, beginning of year	78,813,543	78,813,543	89,486,409
Net financial assets, end of year	$ 77,562,285	$ 86,347,645	$ 78,813,543

The accompanying notes are an integral part of these consolidated financial statements.

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THE CORPORATION OF THE CITY OF SAULT STE. MARIE

Consolidated Statement of Cash Flows

Year ended December 31, 2022, with comparative information for 2021

	2022	2021
Cash provided by (used in):		
Operating activities:		
Annual surplus	$ 48,778,464	$ 26,727,489
Items not involving cash:		
Amortization of tangible capital assets	22,050,255	21,143,830
Loss on sale of tangible capital assets	385,603	200,521
Developer contributions	(2,445,091)	(1,971,335)
Change in future employee benefit obligations	(445,979)	(126,606)
Change in landfill closure and post-closure liability	(2,092,166)	11,603,004
Net income of government business enterprise (note 8)	(4,793,114)	(3,525,983)
	61,437,972	54,050,920
Change in non-cash assets and liabilities:		
Taxes receivable	(3,236,220)	(275,605)
Accounts receivable	(19,728,644)	(7,380,048)
Prepaid expenses	70,859	(106,217)
Inventories	(511,384)	(339,728)
Accounts payable and accrued liabilities	4,860,198	(674,851)
Deferred revenue - obligatory reserves	2,027,378	4,339,688
Temporary advances from (to) trust funds	(182,095)	119,186
	44,738,064	49,733,345
Capital activities:		
Proceeds on sale of tangible capital assets	139,593	151,257
Cash used to acquire tangible capital assets	(60,934,197)	(56,466,319)
	(60,794,604)	(56,315,062)
Investing activities:		
Dividends received from Government Business Enterprises	-	835,080
PUC Inc. previous year correction	200,000	-
	200,000	835,080
Financing activities:		
Repayment of long-term liabilities	(1,017,046)	(1,558,901)
	(1,017,046)	(1,558,901)
Net change in cash	(16,873,586)	(7,305,538)
Cash and cash equivalents, beginning of year	77,912,642	85,218,180
Cash and cash equivalents, end of year	$ 61,039,056	$ 77,912,642
Cash position consists of:		
Cash and cash equivalents	$ 40,106,539	$ 57,286,630
Temporary investments (note 3)	20,932,517	20,626,012
	$ 61,039,056	$ 77,912,642

The accompanying notes are an integral part of these consolidated financial statements.

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The City of Sault Ste. Marie (the "City") is a municipality that was created on April 16, 1912 pursuant to the Municipal Act. The City provides municipal services such as police, fire, public works, planning, parks and recreation, library and other general government operations.

1. Significant accounting policies:

The consolidated financial statements of the City are prepared by management in accordance with Canadian generally accepted accounting principles for governments as recommended by the Public Sector Accounting Board ("PSAB") of the Chartered Professional Accountants of Canada. Significant accounting policies adopted by the City are as follows:

(a) Basis of consolidation:

(i) Consolidated entities:

The consolidated financial statements reflect the assets, liabilities, revenues and expenses of the reporting entity. The reporting entity is comprised of all organizations, committees and local boards accountable for the administration of their financial affairs and resources to the City and which are owned or controlled by the City except for the City's government business enterprises which are accounted for on the modified equity basis of accounting.

These entities and organizations include:

Sault Ste. Marie Police Services Board
Public Utilities Commission of the City of Sault Ste. Marie ("Commission")
Sault Ste. Marie Public Library
Tourism Sault Ste. Marie

Interdepartmental and inter-organizational transactions and balances between these entities and organizations have been eliminated.

(ii) Investment in Government Business Enterprises:

The City's investment in PUC Inc. and PUC Services Inc. is accounted for on a modified equity basis, consistent with Canadian generally accounting principles as recommended by PSAB for investments in government business enterprises. Under the modified equity basis, PUC Inc.'s and PUC Services Inc.'s accounting policies are not adjusted to conform with those of the City and inter-organizational transactions and balances are not eliminated. The City recognizes its equity interest in the annual income or loss of PUC Inc. and PUC Services Inc. in its consolidated statement of operations and accumulated surplus with a corresponding increase or decrease in its investment asset account. Any dividends that the City may receive from PUC Inc. and PUC Services Inc. will be reflected as reductions in the investment asset account.

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1. Significant accounting policies (continued):

(a) Basis of consolidation (continued):

(iii) Related entities:

The consolidated financial statements do not reflect the assets, liabilities, sources of financing, expenses and the activities of the following Boards and enterprises which are not under the control of Council.

Algoma Public Health
District of Sault Ste. Marie Social Services Administration Board
Board of Management of Queenstown
Sault Ste. Marie Public Region Conservation Authority

(iv) Trust funds:

Trust funds and their related operations administered by the City are not included in the consolidated financial statements.

(b) Basis of accounting:

The City follows the accrual method of accounting for revenues and expenses. Revenues are normally recognized in the year in which they are earned and measurable. Expenses are recognized as they are incurred and measurable as a result of receipt of goods or services and/or the creation of a legal obligation to pay.

(c) Revenue recognition:

The City prepared tax billings based on assessment rolls issued by the Municipal Property Assessment Corporation, in accordance with rates established and approved annually by Council and the Province of Ontario. Taxation revenue is recognized in the period in which the taxes are levied.

Government transfers are recognized in the period in which the events giving rise to the transfer occurred, provided that the transfer is authorized and the amount can be reasonably estimated. Government grants are recognized when approved to the extent the related expenditures have been incurred and collection can be reasonably assured.

User fees and other revenues are recognized when the services are performed or goods are delivered, collection of the relevant receivable is probable, persuasive evidence of an arrangement exists and fees are fixed or determinable. Amounts received for future services are deferred until the service is provided.

(d) Temporary investments:

Temporary investments are recorded at the lower of cost and market value.

(e) Inventories:

Inventories held for resale are stated at the lower of cost and net realizable value, while inventories of supplies are stated at lower of cost and replacement value.

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1. Significant accounting policies (continued):

(f) Deferred revenue:

Deferred revenues include licenses, permits and other fees which have been collected, but for which the related services or inspections have yet to be performed. These amounts will be recognized as revenues in the fiscal year the services are performed.

A requirement for local governments is that obligatory reserve funds be reported as deferred revenue. This requirement is in place as provincial legislation and other agreements restrict how these funds may be used and under certain circumstances these funds may possibly be refunded. Given the restriction in use until spent on qualifying projects or expenses these amounts are deferred.

(g) Non-financial assets:

Non-financial assets are not available to discharge existing liabilities and are held for use in the provision of services. They have useful lives extending beyond the current year and are not intended for sale in the ordinary course of operations.

i. Tangible capital assets:

Tangible capital assets are recorded at cost which includes amounts that are directly attributable to acquisition, construction, development or betterment of the asset. The cost, less (if applicable) residual value of the tangible capital assets excluding land, are amortized on a straight-line basis over their estimated useful lives as follows:

Asset	Useful Life - Years
Landfill and land improvements	10 - 30 years
Buildings and building improvements	10 - 60 years
Vehicles	3 - 15 years
Machinery and equipment	5 - 25 years
Infrastructure	15 - 100 years

Half year amortization is charged in the year of acquisition and in the year of disposal. Assets under construction are not amortized until the asset is available for productive use.

ii. Contributions for tangible capital assets:

Tangible capital assets received as contributions are recorded at their fair value at the date of receipt and also recorded as revenue.

iii. Leased tangible capital assets:

Leases which transfer substantially all of the benefits and risks incidental to ownership of property are accounted for as leased tangible capital assets and amortized over the term of the lease. All other leases are accounted for as operating leases and the related payments are charged to expenses as incurred.

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1. Significant accounting policies (continued):

iv. Tangible capital assets disclosed at nominal values:

Where an estimate of fair value could not be made, tangible capital assets are recognized at a nominal value.

v. Works of art and historical treasures:

The City manages and controls various works of art and non-operational historical cultural assets including buildings, artifacts, paintings and sculptures located at City sites and public display areas. These assets are not recorded as tangible capital assets and are not amortized

(h) Use of estimates:

The preparation of consolidated financial statements in conformity with Canadian public sector accounting standards requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Significant estimates include assumptions used in estimating provisions for accrued liabilities, landfill liability and in performing actuarial valuations of employee future benefits.

Actual results could differ from these estimates.

(i) Employee future benefits:

i. The City provides certain benefits which will require funding in future periods. These benefits include sick leave, benefits under the Workplace Safety and Insurance Board ("WSIB") Act, and life insurance, extended health and dental benefits for early retirees.

The costs of sick leave, benefits under WSIB and life insurance, extended health and dental benefits are actuarially determined using management's best estimate of salary escalation, accumulated sick days at retirement, insurance and health care cost trends, long-term inflation rates and discount rates.

For self-insured retirement and other employee future benefits that vest or accumulated over the periods of service provided by employees, such as retirement gratuities, compensated absences and health, dental and life insurance benefits for retirees, the cost is actuarially determined using the projected benefits method prorated on service. Under this method, the benefit costs are recognized over the expected average service life of the employee group. Any actuarial gains and losses related to the past service of employees are amortized over the expected average remaining service life of the employee group.

For those self-insured benefit obligations that arise from specific events that occur from time to time, such as obligations for workers' compensation and life insurance and health care benefits for those on disability leave, the cost is recognized immediately in the period the events occur. Any actuarial gains and losses that are related to these benefits are recognized immediately in the period they arise.

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1. Significant accounting policies (continued):

(i) Employee future benefits (continued):

ii. The costs of multi-employer defined contribution pension plan benefits, such as the Ontario Municipal Employees Retirement System pensions ("OMERS"), are the employer's contributions due to the plan in the period.

(j) Landfill liability:

The liability for closure of operational sites and post-closure care has been recognized based on estimated future expenses, estimated inflation and the usage of the site's capacity during the year.

2. Accounting standards issued but not yet adopted:

Section PS 1201, Financial Statement Presentation, PS 3041, Portfolio Investments, PS 3280, Asset Retirement Obligations, PS 3450, Financial Instruments, are effective for fiscal years beginning on or after April 1, 2022. While early adoption is permitted, all four of the standards must be adopted in the same year except for PS 3280. PS 1201 Financial Statement Presentation includes the addition of a new statement outlining re-measurement gains and losses. PS 3041, Portfolio Investments provides guidance on how to account for and report portfolio investments. PS 3280 Asset Retirement Obligations addresses the reporting of legal obligations associated with the retirement of tangible capital assets. PS 3450, Financial Instruments provides guidance on the recognition, measurement, presentation and disclosure of financial instruments including derivative instruments. The City has not yet adopted these standards or determined the effect on the consolidated financial statements.

Section PS 2601 Foreign Currency Translation is effective for fiscal years beginning on or after April 1, 2022. This section includes guidance on deferral and amortization of unrealized gains and losses, hedge accounting and separation of realized and unrealized foreign exchange gains and losses The City has not yet adopted these standards or determined the effect on the consolidated financial statements.

Section PS 3400, Revenue is effective for fiscal years beginning on or after April 1, 2023 , early adoption is permitted. This section establishes standards on how to account for and report on revenue. Specifically, it differentiates between revenue arising form transactions that include performance obligations and transactions that do not have performance obligations.The City has not yet adopted this standard or determined the effect on the consolidated financial statements.

3. Temporary investments:

Temporary investments consist of GIC's with interest rates between 3.7% to 4.6% with maturity dates ranging from May 2023 to November 2023.

4. Taxes receivable:

Property tax billings are prepared by the City based on an assessment roll prepared by the Municipal Property Assessment Corporation ("MPAC"), an agency of the Ontario government. All assessed property values in the City were established based on a common valuation date which was used by the City in computing the property tax bills for 2022. However, the property tax revenue and tax receivables of the City are subject to measurement uncertainty as a number of significant appeals submitted by ratepayers have yet to be heard.

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4. Taxes receivable (continued):

The City has established an allowance for tax appeals and other items in the amount of $1,100,000 (2021 - $2,210,000). Any supplementary billing adjustments made necessary by the determination of such changes will be recognized in the fiscal year they are determined.

5. Deferred revenue – obligatory reserve funds:

The balances in the deferred revenue of the City consist of:

	2022	2021
Federal Gas Tax	$ 6,803,209	$ 7,562,035
Other programs	485	62,897
Parkland	453,358	391,553
Building permits Bill 124	1,907,320	1,086,743
Provincial Gas Tax	24,074	–
OCIF	1,581,533	–
NORDS	360,627	–
	$ 11,130,606	$ 9,103,228

Continuity of deferred revenue is as follows:

	2022	2021
Balance, beginning of year:		
Federal Gas Tax	$ 7,562,035	$ 3,166,352
Other programs	62,897	905,889
Parkland	391,553	347,319
Building permits Bill 124	1,086,743	265,612
Provincial Gas Tax	–	78,368
	9,103,228	4,763,540
Other revenue	126,309	66,370
Interest earned	249,293	64,238
Total revenue	375,602	130,608
Contributions received and deferred	2,786,079	5,159,454
Contributions taken into revenue	(1,134,303)	(950,374)
Balance, end of year	$ 11,130,606	$ 9,103,228

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6. Net long-term liabilities – The Corporation of the City of Sault Ste. Marie:

	2022	2021
Net long-term liabilities incurred by:		
The Corporation of the City of Sault Ste. Marie	$ 1,013,087	$ 1,071,857

The annual principal and interest payments required to service the long-term obligations of the City are within the annual debt repayment limit prescribed by the Ministry of Municipal Affairs and Housing.

The long-term obligations issued in the name of the City have received approval of the Ontario Municipal board for those approved on or before December 31, 1992. Those approved after January 1, 1993 have been approved by by-law.

(i) The above long-term debt has zero percent interest rate and repayable upon the specific milestones contained in the debt agreement. There were no required repayments during the year. Interest paid in the year and included in current expenditures is $1,114 (2021 - $17,629).

(ii) The City has a loan approved through Ontario Infrastructure and Loans Corporation for he twin pad. Financing is available up to a maximum of $28,800,000 over 25 years but the approved project budget was approved by Council accessing only $14,476,853 of long-term debt. The City will draw from the loan in 2023 under terms approved on May 15, 2023 at 4.36% over 15 years resulting in a semi-annual draw of $663,557 which includes both principal and interest payments. Amounts drawn under the loan at December 31, 2022 were $Nil.

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7. Net long-term liabilities – Public Utilities Commission of the City of Sault Ste. Marie:

	2022	2021
Net long-term liabilities incurred by:		
Public Utilities Commission of the City of Sault Ste. Marie	$ 2,736,414	$ 3,569,084

Principal repayments recoverable over the next five years are as follows:

2023	$ 858,938
2024	886,035
2025	913,987
2026	77,454

The loan is repayable $77,660 monthly including interest at 3.11% and matures on January 12, 2026.

The City guarantees payment to the Bank of all present and future debts and liabilities, including interest due at any time by the Commission to the Bank. Under the guarantee, the City shall be limited to the sum of $8,000,000 together with interest from the date of demand for repayment.

8. Net long-term liabilities – Sault Ste. Marie Public Library:

	2022	2021
Net long-term liabilities incurred by:		
Sault Ste. Marie Public Library	$ 1,915,026	$ 2,040,632

The Sault Ste. Marie Public Library has entered into a 20-year lease for a branch location. Capital lease repayments are due as follows:

2022	$ 204,898
2023	204,898
2024	204,898
2025	204,898
2026	204,898
2028 – 2039	1,468,749
Total minimum lease payments	2,493,239
Less amount representing interest at 4%	(578,213)
Present value of net minimum capital lease payments	$ 1,915,026

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8. Net long-term liabilities – Sault Ste. Marie Public Library (continued):

The current minimum monthly lease payments are $17,075 plus harmonized sales tax for the first 10 years and $10,100 plus harmonized sales tax for the final 10 years, expiring in March 2039 with options for renewal. Minimum monthly payments are subject to annual inflationary increases not to exceed 2% in any year.

9. Investment in government business enterprises:

PUC Inc. is incorporated under the laws of the Province of Ontario and provides municipal electrical distribution and other services to the residents of Sault Ste. Marie as well as other communities in Northern Ontario. The City owns 100% of the outstanding shares of PUC Inc. PUC Services Inc. is incorporated under the laws of the Province of Ontario and provides management, operations and maintenance services related to water, wastewater and electrical services to its related entities and other organizations. The City owns 100% of the outstanding shares of PUC Services Inc.

The following schedule reflects the combined financial information of PUC Inc. and PUC Services Inc. as at December 31:

	2022	2021
Financial Position:		
Current assets	$ 36,225,053	$ 36,592,411
Notes receivable	8,540,329	8,524,329
Future income tax assets	3,376,000	2,488,000
Capital assets	129,757,771	129,422,285
Goodwill	3,596,271	3,596,271
Regulatory assets	20,285,714	6,949,146
Total assets	$ 201,781,138	$ 187,572,442
Current liabilities	$ 32,720,567	$ 30,225,707
Deferred revenue	10,568,482	10,578,508
Deferred tax liability	2,877,000	1,989,000
Employee future benefit obligation	1,453,180	1,786,769
Long-term debt	1,720,937	1,429,547
Deferred revenue	89,255,619	82,237,943
Lease liabilities	47,978	68,968
Regulatory liabilities	7,058,190	7,769,929
Total liabilities	145,701,953	136,086,371
Shareholder’s equity	56,079,185	51,486,071
Total liabilities and equity	$ 201,781,138	$ 187,572,442

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9. Investment in government business enterprises (continued):

	2022	2021
Results of operations:		
Revenues	$ 130,248,598	$ 130,775,222
Expenses	(125,513,157)	(127,502,045)
Provision for payment in lieu of taxes	(241,786)	(239,209)
Other comprehensive gain	299,459	492,015
Net income for the year	$ 4,793,114	$ 3,525,983

The City's investment in government business enterprises is comprised of:		
Common shares	$ 15,668,248	$ 15,668,248
Special shares	15,513,300	15,513,300
Accumulated other comprehensive income	954,230	654,773
Retained earnings	23,943,407	19,649,750
Equity, end of year	56,079,185	51,486,071
Notes receivable	31,720,000	31,720,000
Investment in government business enterprises	$ 87,799,185	$ 83,206,071

The notes receivable include an unsecured note for $6,720,000 bearing interest at 6.1% per annum, payable one year after demand and an unsecured note for $25,000,000 bearing interest at rates negotiated periodically, currently 6.1%, payable one year after demand.

Related Party Transactions

Related party transactions between the City and government business enterprises are as follows:

(i) At December 31, 2022, the City has the following amounts included in the consolidated statement of financial position:

A receivable of $3,079,696 (2021 - $2,606,688) for sewer surcharges, interest and dividends.

A payable of $831,497 (2021- $987,040) for street lighting and various electricity and water invoices.

(ii) Revenues included in the Consolidated Statement of Operations and Accumulated Surplus of the City are:

	2022	2021
Interest on note receivable	$ 1,934,920	$ 1,934,920
Other interest	241,471	114,547
Dividends	–	1,035,080
Property taxes	331,193	315,231
	$ 2,507,584	$ 3,399,778

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9. Investment in government business enterprises (continued):

Related Party Transactions (continued)

(iii) Expenses included in the Consolidated Statement of Operations and Accumulated Surplus of the City are:

	2022	2021
Management fees charged	$ 6,451,711	$ 5,517,231
Electricity and electricity services	3,573,302	3,562,342
Water and wastewater services	3,470,529	3,391,484
Electricity charged for streetlights	551,672	614,160
Streetlight maintenance	520,700	509,231
	$ 14,567,914	$ 13,594,448

Transactions with related parties are in the normal course of operations and are recorded at the exchange amount, which is the amount agreed to by the related parties. It is management's opinion that the exchange amount represents fair market value for these services.

10. Budget figures:

The Budget By-law adopted by Council for the 2022 year was not prepared on a basis consistent with that used to report actual results (Public Sector Accounting Standards). The budget was prepared on a modified accrual basis while Public Sector Accounting Standards now require a full accrual basis. The budget figures anticipated use of reserves to reduce current year expenses in excess of current year revenues to $Nil. In addition, the budget expensed all tangible capital expenditures rather than including amortization expense. As a result, the budget figures presented in the Consolidated statements of operations and accumulated surplus and change in net financial assets represent the financial plan adopted by Council with adjustments as follows:

	2022	2021
Adopted budget by-law for the year	$ –	$ –
Adjustments to adopted budget:		
Debt principal repayments	1,079,729	1,894,065
Investment in tangible capital assets	48,530,850	46,527,876
Amortization of tangible capital assets	(22,078,042)	(21,110,429)
Net transfer to/from reserves and other	(2,330,987)	(2,434,572)
Budget surplus per consolidated statement of operations and accumulated surplus	$ 25,201,550	$ 24,876,940

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11. Pension agreements:

The City makes contributions to OMERS which is a multi-employer plan, on behalf of all permanent, full-time members of its staff. This plan is a defined benefit plan which specifies the amount of the retirement to be received by the employees based on the length of service and rates of pay.

The amount contributed to OMERS for 2022 was $6,677,258 (2021 - $6,487,595) is included as an expense on the consolidated statement of operations and accumulated surplus.

12. Operations of school boards:

During 2022, the City collected and transferred property taxes totaling $18,265,805 (2021 - $18,234,640) on behalf of area school boards.

13. Trust funds:

The trust funds administered by the City amounting to $9,145,470 (2021 - $9,116,737) are presented in a separate financial statement of trust fund balances and operations. Balances are held in trust by the City for the benefit of others, and as such they are not presented as part of the City's financial position or financial activities. At December 31, 2022, the trust fund balances are comprised of:

	2022	2021
Cemetery Care and Maintenance funds	$ 6,386,824	$ 6,277,366
Pre-need assurance	2,559,654	2,604,562
Transit employees' pension	82,823	80,941
Historic Sites	73,560	106,816
Heritage Sault Ste. Marie	30,707	30,009
Ontario Home Renewal Program	(2,848)	2,628
Cultural Endowment	14,750	14,415
	$ 9,145,470	$ 9,116,737

14. Contingent liabilities:

The City has been named in litigation matters, the outcome of which is not determinable and accordingly, no provision has been made for them in these consolidated financial statements. Should any loss result from these claims, such loss would be charged to operations in the year of resolution.

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15. Employee future benefit obligations:

Employee future benefits are liabilities of the City to its employees and early retirees for the following benefits earned but not taken as at December 31, 2022 are as follows:

	2022	2021
Future payments required to WSIB	$ 12,360,098	$ 12,361,060
Post-employment and post-retirement benefits	15,366,791	16,299,033
Vacation pay	8,698,432	8,253,250
Non-vesting sick leave benefits	2,693,701	2,651,658
Employee future benefit obligations	$ 39,119,022	$ 39,565,001

(i) Post employment and post retirement benefits

The City provides non-pension benefits to employees and retirees until they reach 65 years of age. The values that follow have been estimated based upon employee data available during the actuarial review which was completed as at December 31, 2022.

The benefit liability continuity is as follows:

	2022	2021
Accrued benefit liability, January 1	$ 16,299,033	$ 16,395,752
Expense	596,532	1,505,891
Payments	(1,528,774)	(1,602,610)
Accrued benefit liability, December 31	$ 15,366,791	$ 16,299,033

Significant assumptions

Discount rate	5.00%
Health cost increase	4.0% - 6.50%

(ii) Non-vesting sick leave benefits

Sick leave benefits accrue to City employees at a rate of one and a half days per month. Unused sick days are banked and may be used in the future if sick leave is beyond yearly allocation. No cash payments are made for unused sick time upon termination or retirement.

(iii) Accrued vacation pay

Accrued vacation pay represents the liability for vacation entitlements earned by employees but not taken as at December 31, 2022.

(iv) Future payments required to WSIB

Under the provisions of the Workplace Safety and Insurance Board Act, the City has elected to be treated as a Schedule 2 employer and remits payments to the WSIB as required, to fund current disability payments. An actuarial estimate of future liabilities has been completed and forms the basis for the estimated liability.

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16. Landfill closure and post-closure liability:

The Environmental Protection Act sets out the regulatory requirements to properly close and maintain all active and inactive landfill sites. Under environmental law, there is a requirement for closure and post-closure care of solid waste landfill sites. This requirement is to be provided for over the estimated life of the landfill site based on usage.

Landfill closure and post-closure care requirements have been defined in accordance with industry standards and include final covering and landscaping of the landfill, pumping of ground water and leachates from the site, and ongoing environmental monitoring, site inspection and maintenance. The reported liability is based on estimates and assumptions with respect to events extending over a sixty year period using the best information available to management. Future events may result in significant changes to the estimated total expenditures capacity used or total capacity and the estimated liability, and would be recognized prospectively, as a change in estimate, when applicable.

The City operates one primary landfill site, the 5th Line Landfill. The site has capacity of approximately 3,000,000 metric tons with approximately 300,000 metric tons of remaining capacity. At current average fill rates, the site has a remaining operating life of approximately 5.0 years.

It is estimated that the total net present value of the cost to close and maintain the 5th Line Landfill site is approximately $38,632,887 (2021 - $41,232,399). At December 31, 2022, an amount of $34,769,598 (2021 - $36,861,764) with respect to landfill closure and post-closure liability has been accrued and will be funded from future taxation revenues. The City has established a reserve to contribute to the cost of closing and maintaining the landfill site of $12,449,387 (2021 - $11,619,464).

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17. Tangible capital assets:

	Land	Landfill and Land Improvements	Buildings and Building Improvements	Infrastructure	Machinery and Equipment	Vehicles	Assets under Capital Lease	Assets under Construction	2022 Total
Cost									
Balance, beginning of the year	$ 27,889,767	$ 13,584,278	$ 97,512,859	$ 649,643,119	$ 36,129,206	$ 43,423,273	$ 2,507,319	$ 53,086,576	$ 923,776,397
Additions	809,451	51,999	334,766	18,899,863	4,099,873	4,847,472	-	43,445,274	72,488,698
Disposals and transfers	-	-	-	(5,586,608)	(3,064,313)	(681,292)	-	(9,109,410)	(18,441,623)
Balance, end of year	28,699,218	13,636,277	97,847,625	662,956,374	37,164,766	47,589,453	2,507,319	87,422,440	977,823,472
Accumulated Amortization									
Balance, beginning of the year	-	(10,319,403)	(45,363,013)	(267,296,381)	(21,376,354)	(22,185,903)	(342,709)	-	(366,883,763)
Disposals/transfers	-	-	-	5,558,524	2,637,250	611,243	-	-	8,807,017
Amortization expense	-	(242,005)	(2,137,845)	(14,054,708)	(2,186,000)	(3,304,331)	(125,366)	-	(22,050,255)
Balance, end of year	-	(10,561,408)	(47,500,858)	(275,792,565)	(20,925,104)	(24,878,991)	(468,075)	-	(380,127,001)
Net book value, end of year	$ 28,699,218	$ 3,074,869	$ 50,346,767	$ 387,163,809	$ 16,239,662	$ 22,710,462	$ 2,039,244	$ 87,422,440	$ 597,696,471
Net book value, beginning of year	$ 27,889,767	$ 3,264,875	$ 52,149,846	$ 382,346,738	$ 14,752,852	$ 21,237,370	$ 2,164,610	$ 53,086,576	$ 556,892,634

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17. Tangible capital assets (continued):

	Land	Landfill and Land Improvements	Buildings and Building Improvements	Infrastructure	Machinery and Equipment	Vehicles	Assets under Capital Lease	Assets under Construction	2021 Total
Cost									
Balance, beginning of the year	$ 27,883,598	$ 13,584,278	$ 97,243,358	$ 611,059,455	$ 34,835,364	$ 36,878,533	$ 2,494,956	$ 49,150,195	$ 873,129,737
Additions	22,109	-	269,501	43,253,368	2,206,882	8,749,415	12,363	36,065,954	90,579,592
Disposals and transfers	(15,940)	-	-	(4,669,704)	(913,040)	(2,204,675)	-	(32,129,573)	(39,932,932)
Balance, end of year	27,889,767	13,584,278	97,512,859	649,643,119	36,129,206	43,423,273	2,507,319	53,086,576	923,776,397
Accumulated Amortization									
Balance, beginning of the year	-	(10,069,228)	(43,231,260)	(258,304,077)	(19,999,889)	(21,369,623)	(217,436)	-	(353,191,513)
Disposals/transfers	-	-	-	4,621,059	821,580	2,008,941	-	-	7,451,580
Amortization expense	-	(250,175)	(2,131,753)	(13,613,363)	(2,198,045)	(2,825,221)	(125,273)	-	(21,143,830)
Balance, end of year	-	(10,319,403)	(45,363,013)	(267,296,381)	(21,376,354)	(22,185,903)	(342,709)	-	(366,883,763)
Net book value, end of year	$ 27,889,767	$ 3,264,875	$ 52,149,846	$ 382,346,738	$ 14,752,852	$ 21,237,370	$ 2,164,610	$ 53,086,576	$ 556,892,634
Net book value, beginning of year	$ 27,883,598	$ 3,515,050	$ 54,012,098	$ 352,755,378	$ 14,835,475	$ 15,508,910	$ 2,277,520	$ 49,150,195	$ 519,938,224

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17. Tangible capital assets (continued):

a) Assets under construction:

Assets under construction having a value of $87,422,440 (2021 - $53,086,576) have not been amortized. Amortization of these assets will commence when the asset is put into service.

b) Developer contributions:

Contributed capital assets have been recognized at fair market value at the date of contribution. The value of contributed assets received during the year was $2,445,091 (2021 - $1,971,335) comprised of water infrastructure, land and roads infrastructure.

18. Accumulated surplus:

Accumulated surplus consists of individual fund surplus and reserves and reserve funds as follows:

	2022	2021
Surplus:		
Invested in tangible capital assets	$ 597,696,471	$ 556,892,634
Invested in government business enterprises	87,799,185	83,206,071
Sanitary sewer	19,537,428	23,615,664
Operating fund	11,693,317	15,913,326
Unfunded		
Net long-term liabilities	(5,664,527)	(6,681,573)
Landfill closure costs	(34,769,598)	(36,861,764)
Employee benefits	(39,119,022)	(39,565,001)
Total surplus	637,173,254	596,519,357
Reserves set aside for specific purpose by Council:		
Acquisition of tangible capital assets	4,757,951	3,873,570
Planning and development	724,880	644,880
Other programs	31,341,744	23,917,417
Waste disposal site	12,449,387	11,619,464
Total reserves	49,273,962	40,055,331
Reserve funds set aside for specific purpose by Council:		
Senior's Advisory Council	112,946	524,329
Cemetery development	21,927	951,416
Industrial land	339,218	319,197
Property purchases	1,111,166	898,370
Hospital development	124,475	110,484
Total reserve funds	1,709,732	2,803,796
	$ 688,156,948	$ 639,378,484

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19. Government grants:

The City recognizes the transfer of government funding as expenses or revenues in the period that the events giving rise to the transfer occurred. The transfers reported on the consolidated statement of operations and accumulated surplus are:

	2022	2021
Provincial grants	$ 44,599,061	$ 32,681,944
Federal grants	6,957,564	13,287,842
Other grants	17,924	17,587
Total	$ 51,574,549	$ 45,987,373

20. Segmented information:

The City is a diversified municipal government institution that provides a wide range of services to its citizens. City services are provided by departments and certain departments have been separately disclosed in the segmented information, along with the services they provide. These departments are:

General Government

General Government is comprised of City Council, the Mayor's Office, and the Chief Administrators' Office (CAO).

The Chief Administrators' Office is charged with the responsibility of coordinating the work of all municipal departments and ensuring that those departments carry out the policies and directions given by City Council.

Corporate Services

Corporate Services is comprised of the Clerks Department, Human Resources Department, the Finance Department and the Information Technology Department. Each of these departments provides program support to various other areas.

The Clerks Department's primary task is to function as the corporate secretary to City Council, ensuring that all Council Agendas, Minutes of proceedings, resolutions, decisions, voting, records, and accounts are recorded, documented and certified.

The Human Resources Department is charged with negotiation and administration of all collective agreements as well as all facets of employment and employee benefits.

The Finance Department is responsible for the City's general financial management and budget preparation. The department is comprised of financial administration, accounting, tax and licensing, and purchasing activities.

Legal Services

The Legal Department is responsible for the preparation of by-laws, deeds, leases, agreements and other legal documents, as well as property management for the City in regard to purchases, sales, leasing, easements and related agreements. Prosecutions and administration of Provincial Offences Act is also part of their responsibility.

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20. Segmented information (continued):

Fire Services

Fire Services is responsible to provide fire suppression service; fire prevention programs; training and education related to prevention, detection or extinguishment of fires. It is also responsible, through its Emergency Medical Services, for pre-hospital emergency paramedical care and the transport of the sick and injured.

Public Works and Engineering

The Public Works Department is responsible for maintenance of municipal infrastructure, such as streets, sewers, and parks. The department provides solid waste management through refuse collection, recycling programs, and sanitary landfill management. The department is also responsible for traffic control, including signage, signals and pavement markings.

The Engineering Department is comprised of Building Services and Engineering and Construction. Building Services provides maintenance, janitorial services and security for the Civic Centre and Ontario Works. The Engineering and Construction Division provides services associated with engineering design, construction, technical services, and special project initiatives.

Community Development and Enterprise Services

The Community Services Department provides public services for Cemeteries & Crematorium, Central Administration, Community Centres, Recreation and Culture, Transit, and Parking. The Tourism and Community Development Department is responsible for tourism sector development and advancing the Future SSM community development strategy. The Economic Development Department is responsible for business support, attraction, and entrepreneur services. The Planning & Enterprise Services Department facilitates economic development by providing services for the approval of all land development plans and the application of enforcement of zoning by-laws.

Outside Agencies

These agencies are approved by Council through grant agreements or Memorandums of Agreement. This segment includes grants to the Art Gallery of Algoma, Sault Ste. Marie Museum, Canadian Bushplane Heritage Museum, Algoma University, Pee Wee Arena, and Sault Ste. Marie Innovation Centre. The Sault Ste. Marie Police Service and Sault Ste. Marie Public Library report to City Council through their Boards.

Levy Boards

These Boards provide the City amounts to be collected on their behalf. Levy Boards include Algoma Public Health, the Sault Ste. Marie Region Conservation Authority, and the Sault Ste. Marie District Social Services Administration Board (DSSAB).

For each reported segment, revenues and expenses include both amounts that are directly attributable to the segment and amounts that are allocated on a reasonable basis. Therefore, certain allocation methodologies are employed in the preparation of segmented financial information.

The accounting policies used in these segments are consistent with those followed in the preparation of the consolidated financial statements as disclosed in the summary of significant accounting policies.

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20. Segmented disclosure:

										2022
	General Government	Corporate Services	Legal Services	Fire Services	Public Works and Engineering	Community Development and Enterprise Services	Outside Agencies	Levy Boards	Government Business Enterprises	Total
Revenue:										
Taxation	$ 8,898,395	$ 7,919,373	$ 2,331,658	$ 14,261,128	$ 32,498,290	$ 14,230,556	$ 33,162,576	$ 22,506,857	$ -	$ 135,808,833
Fees and user charges	-	133,483	1,031,234	566,651	41,270,437	9,640,121	555,045	-	-	53,196,971
Government grants	308,917	1,511,134	399,197	1,725,242	20,403,862	20,149,767	7,076,430	-	-	51,574,549
Interest income	5,833,415	-	7,942	-	458,341	195,331	-	-	-	6,495,029
Other	5,187,351	210,829	-	8,958	3,327,073	(51,577)	365,036	-	-	9,047,670
Net income of government business enterprise (note 6)	-	-	-	-	-	-	-	-	4,793,114	4,793,114
	20,228,078	9,774,819	3,770,031	16,561,979	97,958,003	44,164,198	41,159,087	22,506,857	4,793,114	260,916,166
Expenses:										
Salaries, wages and employee benefits	1,097,420	6,220,126	1,491,689	14,912,015	26,634,603	17,920,168	30,745,788	-	-	99,021,809
Materials	1,533,965	243,302	1,891,421	780,043	21,295,193	12,283,124	4,503,609	-	-	42,530,657
Contracted services	68,668	(22,500)	313,708	291,886	13,392,230	4,045,280	1,478,030	-	-	19,567,302
Rents and financial	380,006	1,205,302	73,213	4,214	12,643	273,135	203,385	-	-	2,151,898
Grants to others	5,130	884	-	-	-	228,289	1,600,825	22,506,857	-	24,341,985
Loss on disposal of tangible capital assets	-	-	-	364,118	(47,092)	-	64,604	-	-	381,630
Amortization of tangible capital assets	-	249,959	-	435,270	18,112,968	1,896,443	1,355,615	-	-	22,050,255
	3,085,189	7,897,073	3,770,031	16,787,546	79,400,545	36,646,439	39,951,856	22,506,857	-	210,045,536
Landfill closure and post closure liability expense	-	-	-	-	2,092,166	-	-	-	-	2,092,166
Annual surplus (deficit)	$ 17,142,889	$ 1,877,746	$ -	$ (225,567)	$ 16,465,292	$ 7,517,759	$ 1,207,231	$ -	$ 4,793,114	$ 48,778,464

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20. Segmented disclosure (continued):

										2021
	General Government	Corporate Services	Legal Services	Fire Services	Public Works and Engineering	Community Development and Enterprise Services	Outside Agencies	Levy Boards	Government Business Enterprises	Total
Revenue:										
Taxation	$ 10,520,634	$ 9,004,425	$ 1,281,739	$ 13,149,599	$ 30,879,138	$ 12,897,612	$ 31,201,722	$ 21,640,644	$ -	$ 130,575,513
Fees and user charges	-	101,934	1,378,847	292,605	38,127,879	6,869,838	544,622	-	-	47,315,725
Government grants	590,411	1,782,767	595,878	2,244,383	20,620,516	13,517,612	6,635,806	-	-	45,987,373
Interest income	3,289,155	-	2,160	-	182,527	71,532	-	-	-	3,545,374
Other	2,266,011	131,868	-	2,260	2,117,226	1,391,346	282,690	-	-	6,191,401
Net income of government business enterprise (note 6)	-	-	-	-	-	-	-	-	3,525,983	3,525,983
	16,666,211	11,020,994	3,258,624	15,688,847	91,927,286	34,747,940	38,664,840	21,640,644	3,525,983	237,141,369
Expenses:										
Salaries, wages and employee benefits	1,041,567	6,165,811	1,380,164	14,101,632	25,754,522	16,684,107	30,221,157	-	-	95,348,960
Materials	1,906,433	172,851	1,537,481	1,029,951	27,403,783	1,390,691	4,887,203	-	-	38,328,393
Contracted services	39,032	185,404	277,589	251,783	11,472,872	3,346,334	1,350,334	-	-	16,923,348
Rents and financial	276,024	2,673,262	63,390	5,172	13,301	174,491	183,860	-	-	3,389,500
Grants to others	5,327	808	-	-	-	225,457	1,604,088	21,640,644	-	23,476,324
Loss on disposal of tangible capital assets	-	-	(2,560)	-	170,754	7,317	25,010	-	-	200,521
Amortization of tangible capital assets	-	270,495	-	430,095	17,291,021	1,876,590	1,275,629	-	-	21,143,830
	3,268,383	9,468,631	3,256,064	15,818,633	82,106,253	23,704,987	39,547,281	21,640,644	-	198,810,876
Landfill closure and post closure liability expense	-	-	-	-	11,603,004	-	-	-	-	11,603,004
Annual surplus (deficit)	$ 13,397,828	$ 1,552,363	$ 2,560	$ (129,786)	$ (1,781,971)	$ 11,042,953	$ (882,441)	$ -	$ 3,525,983	$ 26,727,489

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City of Sault Ste. Marie

Year-End Audit Report
2022 Fiscal Year

Presentation to City Council

—

August 28th, 2023

01 What We're Seeing in the Sector

Development context

Development Facilitator

Meeting the increasing demands for residential and non-residential development

- **Streamlining Processes**: cities are looking to change processes and increase technology to streamline development approvals.
- **Implementing Policy Supports**: many cities are taking a more active role through community improvement plans, municipal capital facility agreements and changes to development charges.
- **Revisiting Housing Strategies**: housing strategies are expanding along the housing continuum, with cities that are not service managers becoming involved in housing initiatives. Additional supply is also being pursued through special taxation of vacant housing.

Key focus areas for service delivery

Effective Service Provider

Maintaining positive change and service delivery optimization

- **Digital Transformation**: cities are investing in necessary technology to support customer service delivery, including CRM systems, new channels for access to municipal services, payment options and open data.
- **Asset Innovation**: rethinking how municipalities employ infrastructure to meet new and changing customer demands, including new approaches to asset replacement.
- **Regulatory Opportunities**: how do cities leverage opportunities from regulatory changes that provide new avenues and approaches to governance and service delivery?

Low-Cost Service Provider

Managing ongoing financial pressures in light of inflation

- **Managing the Northern Ontario Factor**: inflationary pressures appear to be more pronounced in Northern Ontario, challenging capital and operating priorities.
- **Enhancing Information** : cities are recognizing the need to investment in supporting systems – ERP, HRIS – to improve decision-making effectiveness.
- **ESG:** balancing the increasing importance of ESG – including net zero commitments – with the required costs.
- **Citizen Demands**: citizen demands for services are both evolving and increasing, requiring cities to reevaluate how they prioritize and fund programs

Changing human factors

Optimized Organization

Meeting the changing dynamics of municipal staffing

- **Retention**: municipalities have seen dramatic changes in staff numbers and roles since 2020. Some have completely new teams over that period of time.
- **Capacity:** the understanding of regulatory and corporate requirements can sometimes be incomplete, particularly where the regulatory environment is shifting, leading to compliance and knowledge gaps.
- **Culture**: in the continuing context of uncertainty, ID&E and new ways of working, municipal culture needs to build workforce and stakeholder confidence to manage potential resistance to change.

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02 Audit Highlights

- Our audit procedures were executed in accordance with Canadian Auditing Standards and are based on a materiality of $3.9 million
  - Calculated as 2% of prior year's expenses
  - Results in a posting threshold of $195,000 (equal to 0.07% of current year revenues and 0.02% of current year assets)

- We are prepared to issue an unqualified audit opinion on the City's consolidated financial statements pending:
  - Final approval of the financial statements
  - Receipt of the management representation letter
  - Completion of final audit procedures

- No matters of significance have been identified that require communication with Council
  - No difficulties or significant differences with management
  - No scope limitations
  - No internal control weaknesses or indicators of fraud
  - No uncorrected audit differences above our posting threshold

INDEPENDENT AUDITOR'S REPORT

To the Members of Council, Inhabitants and Ratepayers of The Corporation of The City of Sault Ste. Marie

Opinion

We have audited the consolidated financial statements of The Corporation of The City of Sault Ste. Marie (the "City"), which comprise:

- the consolidated statement of financial position as at December 31, 2022
- the consolidated statement of operations and accumulated surplus for the year then ended
- the consolidated statement of changes in net financial assets for the year then ended
- the consolidated statement of cash flows for the year then ended
- and notes to the consolidated financial statements, including a summary of significant accounting policies

(Hereinafter referred to as the "financial statements").

In our opinion, the accompanying financial statements present fairly, in all material respects, the consolidated financial position of the City as at December 31, 2022 and its consolidated results of operations, its consolidated changes in net financial assets and its consolidated cash flows for the year then ended in accordance with Canadian public sector accounting standards.

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the ***"Auditor's Responsibilities for the Audit of the Financial Statements"*** section of our auditor's report.

We are independent of the City in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada and we have fulfilled our other ethical responsibilities in accordance with these requirements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

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City of Sault Ste. Marie

Indicators of Financial Performance

Presentation to City Council

—

August 28th, 2023

04 Indicators of Financial Performance

- The Public Sector Accounting Board ('PSAB') is the organization that establishes accounting standards for the public sector

- PSAB's Statement of Recommended Practice (May 2009) defines financial condition as "*a government's financial health as assessed by its ability to meet its existing financial obligations both in respect of its service commitments to the public and financial commitments to creditors, employees and others*".
  - **Sustainability** – Can you keep doing what you are doing now without raising the tax burden or issuing new debt?
  - **Flexibility** – Can you increase available sources of revenue without impacting affordability or financial sustainability?
  - **Vulnerability** – How at risk are you from changes to revenue sources that you don't control?

- For the purposes of our analysis, we have selected municipalities with comparable numbers of households

- Our analysis is based on financial information reported in the 2021 Financial Information Returns and the most recent Statistics Canada census data

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04 Indicators of Financial Performance

RESERVES AND RESERVE FUNDS PER HOUSEHOLD

This financial indicator provides an assessment of the City's ability to absorb incremental expenses or revenue losses through the use of reserves and reserve funds as opposed to taxes, user fees or debt. Low reserve levels are indicative of limited capacity to deal with cost increases or revenue losses, requiring the City to revert to taxation or user fee increases or the use of debt.

TYPE OF INDICATOR

Sustainability	✓
Flexibility	
Vulnerability	

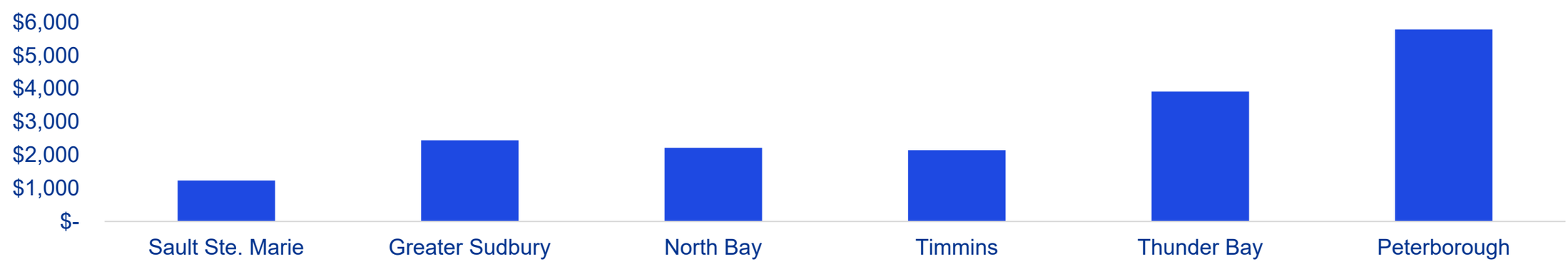
FORMULA

FIR Schedule 70, Line 6420, Column 1 divided by number of households as per Statistics Canada Census Profile

POTENTIAL LIMITATIONS

- Reserves and reserve funds are often committed to specific projects or purposes and as such, may not necessarily be available to fund incremental costs or revenue losses
- As reserves are not funded, the City may not actually have access to financial assets to finance additional expenses or revenue losses
- Additional amounts, including unallocated surpluses and amounts to be recovered in future periods, are not necessarily considered in this analysis

Reserves and Reserve Funds per Household



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04 Indicators of Financial Performance

LONG-TERM DEBT PER HOUSEHOLD

This financial indicator provides an assessment of the City's ability to issue more debt by considering the existing debt loan on a per household basis. High debt levels per household may preclude the issuance of additional debt.

TYPE OF INDICATOR

Sustainability

Flexibility ✓

Vulnerability

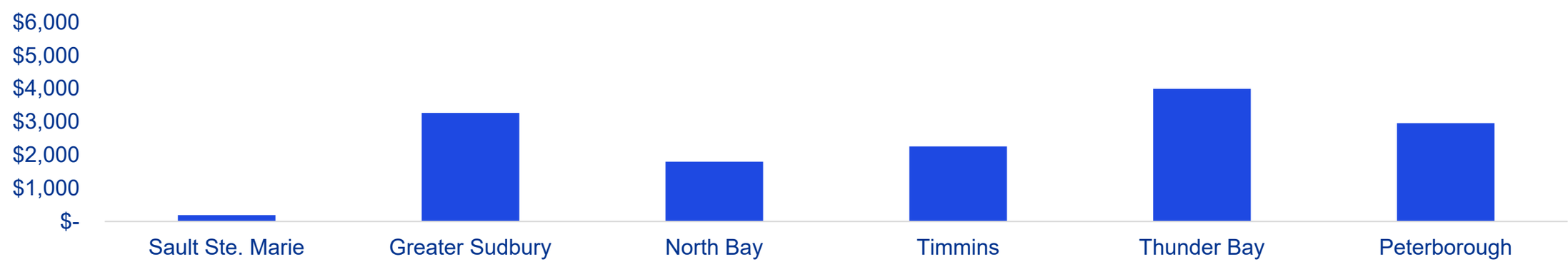
FORMULA

FIR Schedule 70, Line 2699, Column 1 divided by number of households as per Statistics Canada Census Profile

POTENTIAL LIMITATIONS

- This indicator does not consider the Provincial limitations on debt servicing cost, which cannot exceed 25% of own-source revenues unless approved by the Ontario Municipal Board

Long-Term Debt per Household



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04 Indicators of Financial Performance

RESIDENTIAL TAXES PER HOUSEHOLD

This financial indicator provides an assessment of the City's ability to increase taxes as a means of funding incremental operating and capital expenditures.

TYPE OF INDICATOR

Sustainability

Flexibility ✓

Vulnerability

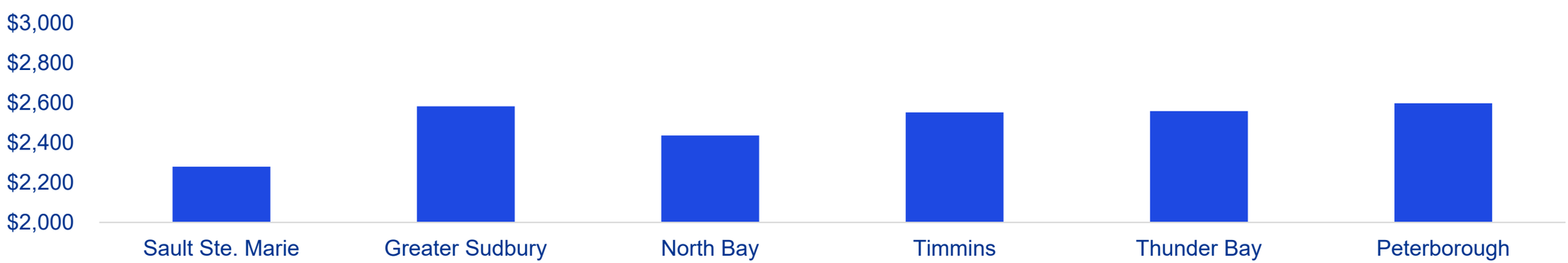
FORMULA

FIR Schedule 26, Line 0010 and Line 1010, Column 4 divided by number of households as per Statistics Canada Census Profile

POTENTIAL LIMITATIONS

- This indicator does not incorporate income levels for residents and as such, does not fully address affordability concerns.
- A municipality's allocation of funding between user fees and taxation revenue may impact this indicator.

Residential Taxes per Household



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04 Indicators of Financial Performance

RESIDENTIAL TAXES AS A PERCENTAGE OF AVERAGE HOUSEHOLD INCOME

This financial indicator provides an indication of potential affordability concerns by calculating the percentage of total household income used to pay municipal property taxes.

.

TYPE OF INDICATOR

Sustainability

Flexibility ✓

Vulnerability

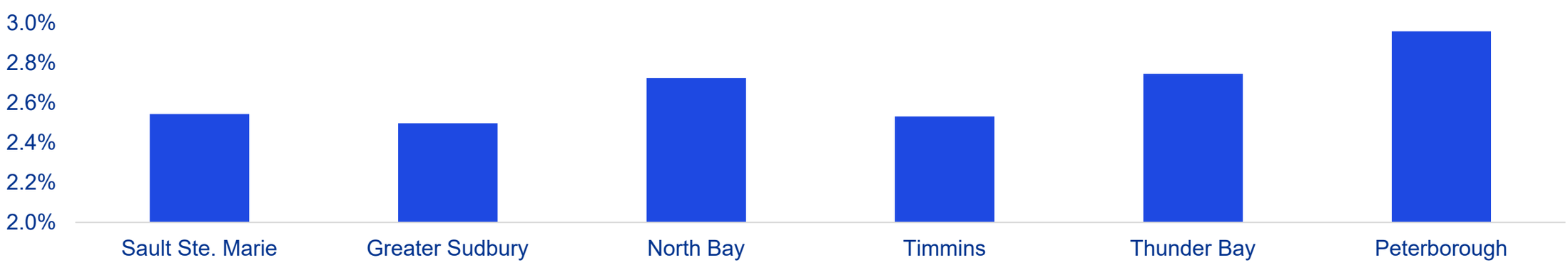
FORMULA

Average residential taxes per household divided by average household income as per Statistics Canada Census Profile

POTENTIAL LIMITATIONS

- This indicator considers residential affordability only and does not address commercial or industrial affordability concerns.
- This indicator is calculated on an average household basis and does not provide an indication of affordability concerns for low income, fixed income or other households with special considerations.
- This indicator only considers taxation and does not factor in user fees and other municipal charges.

Residential Taxes as a Percentage of Average Household Income



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04 Indicators of Financial Performance

NET BOOK VALUE OF TANGIBLE CAPITAL ASSETS AS A PERCENTAGE OF HISTORICAL COST

This financial indicator provides an indication as to the extent to which the City is reinvesting in its capital assets as they reach the end of their useful lives. An indicator of 50% indicates that the City is, on average, investing in capital assets as they reach the end of useful life, with indicators of less than 50% indicating that the City's reinvestment is not keeping pace with the aging of its assets.

TYPE OF INDICATOR

- Sustainability ✓
- Flexibility
- Vulnerability

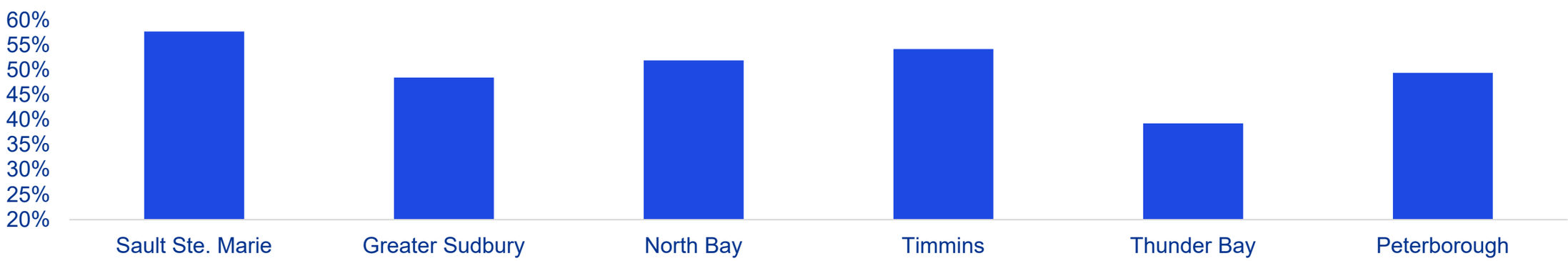
FORMULA

FIR Schedule 51A, Line 9910, Column 11 divided by FIR Schedule 51A, Line 9910, Column 6.

POTENTIAL LIMITATIONS

- This indicator is based on the historical cost of the City's tangible capital assets, as opposed to replacement cost. As a result, the City's pace of reinvestment is likely lower than calculated by this indicator as replacement cost will exceed historical cost.
- This indicator is calculated on a corporate-level basis and as such, will not identify potential concerns at the departmental level.

Net Book Value of Tangible Capital Assets as a Percentage of Historical Cost



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The information contained herein is of a general nature and is not intended to address the circumstances of any particular individual or entity. Although we endeavour to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Tom Vair, Deputy CAO, Community Development and Enterprise Services
DEPARTMENT:	Community Development and Enterprise Services
RE:	Downtown Plaza Launch Update

Purpose

The purpose of this report is to provide an update to City Council on anticipated opening dates for the downtown plaza.

Background

Construction of the downtown plaza is nearing completion and staff are looking forward to launching this new community facility in the fall. Due to supply chain issues, the stage and digital screen is anticipated to arrive at the end of September. Installation is anticipated to take approximately two weeks with all components of the downtown plaza ready mid-October. The other features of the plaza will be ready earlier.

Staff are coordinating a launch of the new market location with the Mill Market on September 23. The grand opening of the Mill Market at 73 Brock Street will be an opportunity to launch the mobile retail units located in the lower area of the downtown plaza. The Mill Market will soon be announcing the new vendors who are an exciting addition to the downtown plaza.

A number of activities are being planned throughout the fall and winter months including:

- Concerts
- Movie nights
- Greyhound game day activities
- Hallowe'en related activities
- FIFA World Cup
- Cultural events
- Christmas themed events

The downtown plaza provides a great new addition to the downtown for passive use with the water feature fountain, play structure, seating and lighting, providing an attractive place for visitors to the downtown.

Analysis

The downtown plaza project will be a positive addition to the downtown. The project began in 2019 and was constructed through a period of significant change due to the COVID-19 pandemic and its impact to supply chain and the construction industry. Now that it is nearing completion, staff looks forward to activating the space alongside community partners and the downtown business community.

A key component to the downtown plaza is having activity throughout the year. The features of the plaza (skating rink, water feature, stage and digital screen, play feature, mobile retail units) and community events will help to draw people to the plaza year-round.

Staff would like to thank the community for the generous contributions of over $1.2M and funding from other levels of government of $750,000. These contributors will be recognized in the plaza for their generosity and community support.

The downtown plaza is central to the vision to advance the downtown and complements recent projects contributing to downtown revitalization including:

- Bay Street Redevelopment
- Bondar Marina Upgrade
- Boardwalk Promenade extension
- Mill Market Relocation
- Mobile Retail Units

There are over 300 businesses in the downtown. The downtown has experienced significant investment over the last 11 years with values of more than $121M in building permits. The recent announcement by Station Mall of an investment of over $60M is another indication of the growth and support for the downtown.

Part of the goal of the plaza is to incentivize further investment in the downtown. Having a location that appeals to residents will help to improve the potential for businesses and attract residential development.

The City received numerous letters of support from community cultural groups and organizations to host events in the plaza. The importance of attracting newcomers and retaining youth in the community to address our aging demographic and need to fill workforce requirements cannot be understated to the future success of the community.

The health of a community's downtown is vital to economic development. It is one of the most important factors that businesses, labour force, students and youth use to assess the health of a community.

Sault Ste. Marie is blessed with a beautiful waterfront and the vision for a vibrant downtown neighbourhood with new residential and commercial development is underway. The downtown plaza will complement the downtown and serve the community for generations to come.

Financial Implications
The project remains within the budget approved by City Council. There are no financial implications related to this report.

Strategic Plan / Policy Impact / Climate Impact
This item directly aligns with the Corporate Strategic Plan in multiple focus areas.

The project aligns directly with the focus area of "Quality of Life" and the priorities identified which include Promote Quality of Life Advantages, Promote and Support Arts and Culture, Welcome and Seek Out Immigration and Create Vibrant Downtown Areas.

The project also aligns with the FutureSSM Community Development Strategy and Downtown Development strategy.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Deputy CAO, Community Development and Enterprise Services dated August 28, 2023 concerning the downtown plaza opening schedule be received as information.

Respectfully submitted,

Tom Vair
Deputy CAO, Community Development and Enterprise Services
705.759.5264
t.vair@cityssm.on.ca

The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Brent Lamming, Director of Community Services
DEPARTMENT:	Community Development and Enterprise Services
RE:	Soo Greyhounds Tailgate Events

Purpose

The purpose of this report is to provide a response to the Council resolution concerning Soo Greyhounds Tailgate Events.

Background

At a meeting dated May 29, 2023 Council approved the following resolution.

> *Whereas the City of Sault Ste. Marie has a long and celebrated history with the Soo Greyhounds Hockey Club; and*
>
> *Whereas Soo Greyhounds hockey events provide an entertaining and engaging atmosphere for residents of and visitors to Sault Ste. Marie; and*
>
> *Whereas attendance at Soo Greyhounds hockey events have a positive impact on our community and our economy by:*
>
> - *Attracting visitors to Sault Ste. Marie.*
> - *Increasing number of nights of hotel stays.*
> - *Helping to build a sense of community and pride in our community.*
> - *Helping to build a brand sense with the hockey club as well as a sense of tradition and pride for the hockey club and its supporters.*
> - *Allowing fans and supporters to be surrounded by and to create their own entertainment related to sporting events.*
> - *Helping to increase the social interactions of people in our community; and*
>
> *Whereas other communities have created an environment for tailgating to form part of their culture and have been able to safely allow for tailgating at events in their community; and*

Whereas ownership of the Soo Greyhounds Hockey club is supportive of the city creating a tailgating environment for fans to help enhance the fan experience; and

Whereas the City of Sault Ste. Marie is responsible for parking at the GFL Memorial Gardens and will be able to generate revenue for the city by charging a reasonable fee for access to tailgating parking spots for sporting events

Now Therefore Be It Resolved that staff be requested to review the process to allocate and rent or provide parking spaces at the GFL Memorial Gardens and create a tailgating environment for a limited number of Soo Greyhounds home games. In that review, staff would engage with the Soo Greyhounds Hockey Club and other stakeholders in order to create a positive fan environment. In addition, staff report on the ability of the city to provide free bus service, (perhaps by showing a game ticket) to and from the GFL Memorial Gardens during these events for the transportation of people to and from the site.

Analysis

Staff from the Community Services and Legal departments have reviewed the resolution and have met with representatives from the Soo Greyhounds Hockey Club. Everyone is in support of enhancing the fan experience in advance of the Greyhound games.

The resolution is in alignment with what has happened historically for home openers and special occasions to enhance the fan experience.

1. Licence of Occupation for a street closure on Queen. Street party with a sectioned off beer gardens adjacent to the games and activity area.
2. Special Occasion Permit in the GFL Memorial Gardens parking lot.

Through the research completed there have not been any municipalities in Ontario that have secured a tailgating licence in its true essence, that is allowing for external alcohol to be brought onto a municipal site for consumption. It is more common to obtain a special occasion permit under an existing licence to serve alcohol on public property.

The following inherent concerns exist with tailgating from a risk perspective:

- Monitoring consumption in advance of the game from external alcohol being brought onto the site.
- Oversight regarding type and quantity of external alcohol being brought on the site.
- The pouring rights from the Molson contract extend into the parking lot.
- Potential for disorderly conduct in advance of or during Greyhound games and requirement for additional security.

- Consideration for negative impact on concession sales within the facility.

The risks can be mitigated to a degree utilizing a special occasion permit which provides for the following:

- Smart Serve qualified employees in place to monitor consumption.
- Sectioned off area to aid with security concerns and waste.
- Minimize impact to parking.

Other items taken into consideration:

- The weather in late fall and winter can at times be restrictive to attendance for a pre-game event.
- Some individuals may buy a spot in the parking lot just to obtain premium parking (should tailgate parking spots be offered for sale).
- How to control the tailgate area
- The tailgate area would be open and potential issues with underage drinking
- Monitoring of arriving and departing alcohol would not be possible
- A risk of the loss of the City liquor license as a result of infractions
- Protocol development and implementation would be required
- Tailgate areas would require revisions to the alcohol policy.

The working group has suggested options that are in alignment with the resolution to implement for the 2023-24 season:

1. Continue to partner with the Greyhounds and Downtown Association for on-street pre-game parties and or Special Occasion permit in the lot.

2. **New Fan Zone** at the Downtown Plaza and Pre-game Walk
    - There will be a pre-game party at the Plaza in advance of every home game for the Greyhounds (weather permitting). This will be serviced by the licenced mobile retail unit and amenities within the Plaza.
    - Greyhound games will be broadcast on the screen in the Plaza when available.
    - In advance of the game there will be the “Hound Hike” up Queen Street to the GFL for participants to augment the fan experience. All fans are welcome!

As part of the initiative, it is recommended that the City provide free Transit service with a valid ticket to and from the game. This will encourage use of public transportation and allow individuals consuming alcohol a form of safe and reliable mode of transportation. This approach will create a new tradition with the aim of enhancing the fan experience. Staff support this approach.

Financial Implications

There is an estimated impact of $2,000 in forgone Transit Revenue that can be accommodated within the existing Operating Budget.

Strategic Plan / Policy Impact / Climate Impact
The recommendation supports the focus area of the Corporate Strategic Plan for 2021-2024 in a number of ways.

- Within the Service Delivery focus area, it continues to assist in delivering excellent customer service to citizens.
- It exemplifies communication and stakeholder consultation to create an environment that encourages engagement and the exploration of mutual goals to grow our community. Collaboration with community partners and stakeholders is essential to our success.

Climate Impact

- Encouraging the use of public transit to and from the Greyhound games uses less energy, and as a result produces less emissions by encouraging group transportation, which is a key mitigation strategy to reducing the impacts of climate change. As well, it is anticipated that the close proximity between the Plaza and the GFL Memorial Gardens will decrease the need for personal vehicle use and foster active transportation.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Director of Community Services dated August 28, 2023 concerning Soo Greyhound Tailgate Events be received and that the City:

- Continue to partner with the Soo Greyhounds and Downtown Association for on-street pre-game parties and/or parking lot parties licensed by special permits;
- A FanZone be established at the downtown Plaza;
- Free transit services for same-day transit service be provided to valid Soo Greyhound game ticket holders.

Respectfully submitted,

Brent Lamming, PFP, CPA, CMA
Director, Community Services
Community Development & Enterprise Services
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Emily Cormier, Sustainability Coordinator
DEPARTMENT:	Community Development and Enterprise Services
RE:	FCM GHG Reduction Pathway Feasibility Study Funding Grant Agreement

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Purpose

The purpose of this report is to seek City Council approval to enter into an agreement with the Federation of Canadian Municipalities (FCM) for the GHG Reduction Pathway Feasibility Study Project.

Background

On November 21, 2022, City Council passed the following motion:

> Resolved that the report of the Sustainability Coordinator dated November 21, 2022 concerning Deep Energy Retrofit Audit Study Funding be received and that Council approve $50,000 from the Community Development Fund: Green Initiatives Program and that staff be authorized to proceed with preparation of an application to the Federation of Canadian Municipalities Green Municipal Fund Greenhouse Gas Reduction Pathway Feasibility Study program to seek funding for conducting six deep energy retrofit audits.

The City has received notification of approval of the funding application submitted to the FCM in the amount of $200,000. The FCM has provided a grant agreement for approval and signature by the City of Sault Ste. Marie.

Analysis

The funding support will allow the City to complete deep energy retrofit (DER) audits on the City's top six GHG emitting facilities to identify projects that will integrate energy and GHG reductions into their longer-term plans for managing community buildings and achieving net-zero emissions by 2050.

Financial Implications

The cost for completing six DER audits on City facilities has been estimated at $250,000. The FCM will fund 80% of project costs, and the remaining 20% ($50,000) has been allocated from the City's Community Development Fund (CDF) Green Initiatives Fund.

Strategic Plan / Policy Impact / Climate Impact
The recommendation supports the focus areas and values of the Community Strategic Plan for 2021 – 2024 in a number of ways:

Infrastructure: maintaining existing infrastructure

Quality of life: promoting quality of life advantages including the implementation of the Greenhouse Gas Reduction Plan.

In addition, the project aligns with the value of Environmental Stewardship within the Corporate Strategic plan of using resources wisely to maintain and create a sustainable city for future generations.

Recommendation
It is therefore recommended that Council take the following action:

The relevant By-law 2023-143 is listed under item 12 of the Agenda and will be read with all by-laws under that item.

Respectfully submitted,

Emily Cormier
Sustainability Coordinator
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Maggie McAuley, Municipal Services and Design Engineer
DEPARTMENT:	Public Works and Engineering Services
RE:	Traffic Control at Northern Avenue West and Bainbridge Street

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Purpose

The purpose of this report is to address the Council resolution from December 12, 2022, which reads:

Whereas Council's goal is to have safe residential areas, streets, and overall community safety; and

Whereas traffic is steadily increasing on Bainbridge Street year by year; and

Whereas aggressive driving has increased in Sault Ste. Marie over the past few years; and

Whereas there is currently a yield sign at the intersection of Northern Avenue and Bainbridge Street;

Now Therefore Be It Resolved that staff be requested to report back to City Council regarding converting the yield sign at Northern Avenue and Bainbridge Street to a stop sign.

Background

Northern Avenue West meets Bainbridge Avenue at a T-intersection. Northern Avenue is controlled by way of a yield sign. Bainbridge Avenue is considered the major road and has no traffic control. The traffic pattern is predominantly between Northern Avenue West and the western leg of Bainbridge Street. No collisions were reported in the last 5 years at this intersection.

Analysis

After collecting current traffic data, CIMA+ was engaged under their traffic advisory services role to provide a professional opinion of this intersection.

Since the main traffic flow is between the west leg of Bainbridge Street and Northern Avenue, it is not recommended to change the yield sign to a stop sign as doing so would increase the delay on Northern Avenue. A stop sign on the eastern leg of Bainbridge Street is more logical, however this option has its own concerns. According to CIMA+, the main issue with the intersection is the fact that it is skewed, “too wide and provides little vehicle guidance to drivers. In order to effectively make improvements to this intersection, geometric changes would be required in order to tighten up the vehicle guidance offered and allow stop signs to be obeyed more easily.”

Possible improvements to this intersection could include a mini-roundabout, traffic islands and changes to the curb lines. Engineering staff are recommending that the geometric review and any physical changes be deferred to a date when there is future work in the area.

As such, it is recommended that the intersection remain in its current configuration. Any interim changes without reconstruction could cause problems where they do not currently exist. Staff will periodically monitor the operations at this intersection and plan future improvements as necessary.

Financial Implications
There are no immediate financial implications to this report.

Strategic Plan / Policy Impact / Climate Impact
Traffic safety is related to the infrastructure focus area of the strategic plan.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Municipal Services and Design Engineer dated August 28, 2023 concerning the yield sign at Northern Avenue and Bainbridge Street intersection be received as information.

Respectfully submitted,

Maggie McAuley, P.Eng.
Municipal Services and Design Engineer
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Dan Perri, Municipal Services and Design Engineer
DEPARTMENT:	Public Works and Engineering Services
RE:	Contract 2023-9E Budget Increase

Purpose

The purpose of this report is to obtain approval to spend an additional $35,000 from the annual emergency allocation from the Asset Management Reserve.

Background

At the July 10, 2023 Council meeting, Contract 2023-9E was awarded to Ellwood Robinson Inc. Included in this contract were upgrades to Fire Station 1 parking lot, funded from the annual emergency allocation from the Asset Management Reserve.

A commitment of $120,000 for the Fire Station 1 parking lot was approved earlier this year by the CAO from the emergency allocation. Due to unforeseen circumstances, project costs increased to an amount requiring Council approval.

Analysis

During construction, it was discovered that additional asphalt was required over and above the original estimated quantities, resulting in cost increase of $35,000.

Financial Implications

The 2023 Capital Budget included an allocation of $275,000 for emergency repairs. Approval this evening will earmark a portion ($35,000) of these funds to complete construction of the parking lot.

Strategic Plan / Policy Impact / Climate Impact

This report is linked to the infrastructure focus area of the corporate Strategic Plan.

Recommendation

It is therefore recommended that Council take the following action:

Resolved that the report of the Municipal Services and Design Engineer dated August 28, 2023, concerning Contract 2023-9E Budget Increase be received and the recommendation that an additional spend of $35,000 from the annual emergency allocation from the Asset Management Reserve be approved.

Respectfully submitted,

Dan Perri, P.Eng.
Municipal Services and Design Engineer
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Freddie Pozzebon, Chief Building Official
DEPARTMENT:	Public Works and Engineering Services
RE:	Bylaw Enforcement Appointment Council Report.docx

Purpose
The purpose of this report is to recommend the appointment of staff as Property Standard Officers.

Background
The purpose of the appointment will be to provide the staff listed on Schedule “A” with the authority under the Ontario Building Code Act section 1.(1) and 15.1 to issue Order to Remedy Violations under The Corporation of the City of Sault Ste. Marie’s Property Standards, Vacant Building By-Law and other various bylaws.

Analysis
The appointment of additional staff will provide the appropriate level of service to match the current and future increase in the enforcement of the above-mentioned by-laws of The Corporation of the City of Sault St. Marie.

Financial Implications
There are no financial implications.

Strategic Plan / Policy Impact
Within the Corporate Strategic Plan our focus area for Service delivery will concentrate on the continuing delivery of efficient and effective service to the community, resulting in improving customer service.

Recommendation
It is therefore recommended that Council take the following action:

The relevant By-law 2023-142 is listed under Agenda item 12 and will be read with all by-laws under that item.

Respectfully submitted

Freddie Pozzebon
Chief Building Official
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Peter Johnson, Fire Chief
DEPARTMENT:	Fire Services
RE:	Fire Services PA System Upgrade

Purpose

The purpose of this report is to request repurposing a portion of the NG-911 funds from the Asset Management Reserve allocation to fund a required upgrade to Fire Services public announcement (PA) system which is utilized to alert staff of incoming emergency calls.

Background

A report from the Manager of Information Technology dated June 13, 2022 was presented to the Mayor and Council seeking approval to utilize funds from the Asset Management Reserve to commit to a five year contract with Netagen NG-911 Solutions. This is an all-in-one fully managed “on-premise” NG-911 solution to assist the city with preparing and migrating to NG-911. The total cost of the project is $1,497,790.

Subsequent to this report, the Fire Chief submitted a report dated March 20, 2023 to inform the Mayor and Council of the approved grant funding from the province to assist with the integration and implementation of NG-911.

The City was approved for a grant of $600,000. This funding is to assist with: software and licencing costs, call handling systems, multimedia handling, Computer Aided Systems (CAD) integrations and Radio System integrations.

Analysis

The integration of NG-911 is underway, some upgrades have been completed. Mainly, fiber optic cable for the high volume and data transfer has been installed. This has caused issues with our current PA system. The current paging solution is outdated; the volume and rate of data transfer being introduced to the system is causing it to fail and not function properly during alarms. This creates issues for emergency response staff. The PA is cutting out and crews are not receiving and critical information for the response and nature of the call.

An upgrade to the PA system is required in order to integrate with the NG-911 technology and seamless transfer of call information to responding crews.

Financial Implications
The required upgrade to the PA system is not included in the approved Capital Budget for the NG-911 upgrade. The increase in the capital budget for the PA system in the amount of $60,000 can be accommodated within the 2022 Asset Management Reserve commitment for the project approved previously for $200,000.

Strategic Plan / Policy Impact / Climate Impact
Service Delivery – ensuring that Sault Ste. Marie Fire Services and the Corporation of the City of Sault Ste. Marie provide efficient and effective 9-1-1 communications to the community.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Fire Chief dated August 28, 2023 concerning Fire Services PA Upgrade be received and that the repurposing of $60,000 from NG-911 Asset Management Reserve allocation to fund the upgrade be approved.

Respectfully submitted,

Peter Johnson
Fire Chief
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Karen Fields, City Solicitor
DEPARTMENT:	Legal Department
RE:	Franchise Agreement with Enbridge Gas Inc.

Purpose

The purpose of the report is to ask Council to give first and second reading to By-law 2023-144 and to pass the resolution required by Enbridge.

Background

By way of background the City has in the past entered into long term franchise agreements with various gas companies. In 1967 with Great Northern Gas Company Limited, and again in 1989 with Union Gas, with a renewal in 2003 with Union Gas. The agreement expires on January 26, 2024. Enbridge Gas Inc. ("Enbridge") is seeking to enter into a 20-year agreement with 89 Northern Region Municipalities for the storage, transmission, and distribution of natural gas. In May of 2023, representatives of Enbridge Gas met with various departments of the City, including Engineering and Legal to discuss the proposed new agreement. The agreement, which is attached to By-law 2023-144 is the 2000 Model Franchise Agreement that was prepared by Enbridge in consultation with representatives from municipalities in the province and is a standard agreement that has been approved by the Ontario Energy Board so that there would be consistency in the terms and conditions of the franchise agreement to coordinate the construction, operation, and maintenance of the natural gas system. The term of this franchise agreement is twenty years. The proposed agreement has been reviewed by both the Engineering Department and Legal Department and is recommended for Council to give first and second reading to By-law 2023-144.

Analysis

If Council gives first and second reading to the by-law, then the material is sent to Enbridge, which in turn submits the agreement to the Ontario Energy Board for approval. In turn the Ontario Energy Board will be requested to make an Order declaring that the assent of the municipal electors to the draft by-law and franchise agreement is not necessary for approval. If the Ontario Energy Board approval is granted, then the agreement is sent back to the City for a third reading. Council is being asked to pass the attached resolution.

Financial Implications
There is no direct financial impact with the agreement.

Strategic Plan / Policy Impact / Climate Impact
This is an operational matter not articulated in the corporate Strategic Plan.

Climate Impact

Enbridge as a company state that it has overall corporate targets to eliminate green house gas emissions from their business on a net basis (net zero) by 2050, and to reduce the intensity of green house gas emissions from their operations 35% by 2030.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the City Solicitor dated August 28, 2023, concerning the franchise agreement with Enbridge Gas Inc. be received and the following resolution be passed:

1. This Council approves the form of draft by-law and franchise agreement attached hereto and authorizes the submission thereof to the Ontario Energy Board for approval pursuant to the provisions of Section 9 of the *Municipal Franchises Act*.

2. This Council requests that the Ontario Energy Board make an Order declaring and directing that the assent of the municipal electors to the attached draft by-law and franchise agreement pertaining to the Corporation of the City of Sault Ste. Marie is not necessary pursuant to the provisions of Section 9(4) of the *Municipal Franchises Act*.

   The relevant By-law 2023-144 is listed under item 12 of the Agenda.

Respectfully submitted,

Karen Fields
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Melanie Borowicz-Sibenik, Assistant City Solicitor/Senior Litigation Counsel
DEPARTMENT:	Legal Department
RE:	Canadian Pacific Welcome Sign (Trunk Road) Agreement

Purpose

The purpose of this report is to request Council's approval for a Master Sign Licence Agreement (the "Agreement") between the City and Canadian Pacific Railway Company ("CP") to permit the City to maintain a welcome sign on CP's property.

Background

Since 1966, the City has leased from CP property at the east entrance to Sault Ste. Marie upon which is located the City's "Welcome" sign (the "Sign"). The current lease has expired.

Analysis

In order for the City to continue to maintain the sign, a new lease agreement is necessary.

The Agreement is for a term of three (3) years commencing September 1, 2023 and terminating on August 31, 2026 and contains minimum safety provisions that must be satisfied by the City. All City Staff attending at the property is required to be eRailSafe certified and comply with CP security policies. Public Works has confirmed this requirement can be achieved. As typical with Licence Agreements, the City is responsible for any losses while on the property and for any breach of the Agreement by the City. CP may terminate the Agreement at any time on 90 days' notice.

Financial Implications

The Agreement requires that the City pay CP annual rent in the following amounts: $863.77 for the year commencing September 1, 2023, $898.32 for the year commencing September 1, 2024, and $934.25 in the year commencing September 2025. This is consistent with payment increases in previous years.

Strategic Plan / Policy Impact / Climate Impact
This Agreement supports the Quality of Life element of the City's Strategic Plan.

Recommendation
It is therefore recommended that Council take the following action:

The relevant By-law 2023-133 is listed under item 12 of the Agenda and will be read with all by-laws under that item.

Respectfully submitted,

Melanie Borowicz-Sibenik
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Litigation Counsel
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Jeffrey King, Solicitor
DEPARTMENT:	Legal Department
RE:	Housekeeping – Streets and Other Related Matters By-laws

Purpose

The purpose of this report is to recommend that Council pass proposed By-law amendments to the City's Streets and Related Matters By-law and the Parks By-law.

Background

Staff conducted a review of the City's Streets and Related Matters By-law and the Parks By-law and determined that certain changes are needed from an updating and housekeeping standpoint. Amendments are also necessary should measures be required to safeguard City owned lands from use as an encampment.

Analysis

The proposed by-law amendments to the City's Streets By-law are required to update titles of the officials responsible for conducting various aspects of the by-law, update gender references, and expand the scope of section 9 to further protect property owned by the Corporation of the City of Sault Ste. Marie.

The proposed by-law amendments to the Parks By-law are required to ensure that parklands are safeguarded from use as encampment.

Financial Implications

There are no financial implications to these amendments.

Strategic Plan / Policy Impact / Climate Impact

This is an operational matter not directly articulated in the corporate Strategic Plan.

Recommendation

It is therefore recommended that Council take the following action:

The relevant By-laws 2023-145 and 2023-146 are listed under item 12 of the Agenda and will be read with all by-laws under that item.

Respectfully submitted,

Jeffrey King
Solicitor
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LEGAL\STAFF\COUNCIL\REPORTS\2023\HOUSEKEEPING - STREETS AND RELATED MATTERS.DOCX

The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Jenna Ricard, Solicitor/Prosecutor
DEPARTMENT:	Legal Department
RE:	Scrap Metal Facility Update

Purpose

The purpose of this report is to provide information to Council regarding Scrap Metal Facilities including input and comments received from public and stakeholder consultation meetings conducted in August 2023.

Background

On December 13, 2021, Council passed the following resolution:

> *Whereas residents in the area of AIM Recycling on Carpin Beach Road have registered numerous complaints with AIM Recycling, city councillors and staff as well as the Ministry of the Environment, Conservation and Parks (MECP) concerning issues with the operations on site, including but not exclusive to noise, emissions, site plan control and traffic; and*
>
> *Whereas the Ministry and AIM Recycling are working on an environmental approval process that should address some of the issues but take a lengthy time to be completed; and*
>
> *Whereas a number of Ontario municipalities control some aspects of salvage yard operations through business licensing bylaws; and*
>
> *Whereas the move by Algoma Steel Inc. to electric arc steelmaking will result in an increased need for scrap metal as an input and may result in increased salvage/metal processing operations in Sault Ste. Marie;*
>
> *Now Therefore Be It Resolved that staff review whether a business licensing approach can be used to address some of the concerns noted by residents in the area of AIM Recycling and, by extension, the community at large concerning existing or future salvage metal processing operations.*

On August 8, 2022, Council passed the following resolution:

> *Now Therefore Be It Resolved that the report of the Solicitor dated August 8, 2022 concerning Salvage Yard Licensing By-law be received, and staff from Legal, Clerk's, Building, and Planning be directed to develop a salvage yard licensing by-law for City Council's consideration.*

On July 31, 2023, City staff provided a report and a draft by-law for Council's information. At that meeting, Council was advised that consultation on the by-law was still required to occur and that two consultation meetings would be held in August with the results from the consultations being considered to determine if the draft by-law would need amending. Two such consultations took place, one for the public and one specifically for stakeholders. The Ministry of Environment, Conservation and Parks ("MECP") is also involved with complaints arising from the scrap yard on Carpin Beach Road.

Analysis

Role of the Ministry of Environment, Conservation and Parks (MECP):

As expressed previously, the Province regulates scrap yards through provincial legislation, which came into effect on September 30, 2016. MECP requires businesses that process more than two end-of-life vehicles to register on the Environmental Activities Sector Registry (EASR).

The EASR is an online registry and a streamlined approval process. As of September 30, 2016, all prescribed activities related to end-of-life vehicle waste disposal sites were required to register in the EASR pursuant to Ontario Regulation 85/16.[1] Businesses with less complex operations may register themselves online on the EASR while businesses with more complex or unique operations must apply for an Environmental Compliance Approval (ECA).[2]

As of September 30, 2017, subsection 5.1 (5) of *Regulation 347* requires that no person shall shear, crush or shred an end-of-life vehicle, or cause or permit the shearing, crushing or shredding of an end-of-life vehicle, unless the specified materials have been removed.[3]

Noise levels emitted from the activity of shearing, crushing, or shredding metal and acoustic assessment is the MECP's jurisdiction. The MECP have expertise in this area and have the specific authority to regulate scrap yards. The City would be

[1] End-of-life vehicle waste disposal site user guide for Environmental Activity and Sector Registry https://www.ontario.ca/page/end-life-vehicle-waste-disposal-site-user-guide-environmental-activity-and-sector-registry
[2] Environmental Activity and Sector Registry https://www.ontario.ca/page/environmental-activity-and-sector-registry
[3] End-of-life vehicle waste disposal site user guide for Environmental Activity and Sector Registry https://www.ontario.ca/page/end-life-vehicle-waste-disposal-site-user-guide-environmental-activity-and-sector-registry

required to accept the assessment that is satisfactory to the MECP. Should the City try to legislate an area that is the jurisdiction of the Province it opens itself up to a challenge on jurisdiction. Further, City staff does not currently have the expertise to conduct or adequately peer review these acoustic assessments.

City staff have determined that the areas of this proposed draft licensing by-law that are not covered through the provincial licensing scheme are hours of operation and enclosures.

Consultation meetings and advertising process:

As stated, after the July 31 Council meeting, two consultation meetings were held, one for the public at large and one for stakeholders to seek input with respect to the proposed licensing by-law for scrap metal facilities.

The consultation meeting for the public occurred August 10, 2023 from 4 p.m. to 7 p.m. at the Northern Community Centre located at 556 Goulais Avenue in the Steelton Room.

The consultation meeting for the stakeholders/local businesses occurred August 15, 2023 from 4 p.m. to 6 p.m. at the Civic Centre located at 99 Foster Drive in the Russ Ramsay Room.

The following tools were used to notify the public and stakeholders of these two consultation meetings:

- News release;
- Social media;
- Online advertising; and,
- City's website.

The known stakeholders were contacted directly through email with the news release included as an attachment.

Comments from Public Consultation:

Three residents of Carpin Beach Road attended and were not satisfied with the proposed hours of operation. The concerned residents requested that the hours of operation be 8 a.m. to 4 p.m. Monday to Friday and Saturday 9 a.m. until noon.

The complaints received from residents of Carpin Beach Road included:

- Shaking of their houses including windows;
- Vibration;
- Excessive crashing;
- Excessive banging;

- Berm unpredictable as noise travels with the weather especially wind; and,
- Safety concerns for children.

Residents of Carpin Beach Road have concerns with respect to the amount of disturbance and danger scrap metal facilities have brought to their neighbourhood. The City received a comment from one resident that the noise produced is extremely bad with almost daily complaints from residents of Carpin Beach Road to both the City and MECP.

Although the concerned Carpin Beach Road residents were not satisfied with the proposed hours of operation, they also stated that these proposed operating hours should not affect businesses that are located in industrial areas such as M3 Zones.

There are other entities captured by the current language of the draft by-law that are not within an M3 zone; however, AIMs would be the only business not within an M3 Zone classed as a “Scrap Metal Facility” because the operations involve shearing, crushing, and shredding of metal. The other businesses are storage focused or a “Junkyard” type operation. An attempt to regulate a specific business can be scrutinized as inappropriate, and a possible restriction of trade. To impose these types of restrictions on one specific entity or person may be challenged in Court.

A Carpin Beach Road resident suggested there be a requirement that any berm is at least 6 feet above grade. The appropriate size and types of sound attenuation are evaluated by the MECP under the EASR. This presents a second jurisdictional challenge for the City’s proposed by-law. If a two-foot berm is deemed appropriate by the MECP, the City would not be in a position to require a higher berm. Where a municipal by-law regulates the same matters that the province regulates, having that by-law or a provision of the by-law struck down is possible. This equally applies to the acoustic assessment requirements.

Comments from Stakeholders:

A wide range of stakeholders, approximately fifteen representatives, attended the consultation meeting on August 15, 2023. This included larger scrap metal facilities, salvage/scrap yard businesses, towing companies, and other industries that may be captured under the proposed licensing by-law with having scrap metal as an accessory activity.

One of the larger scale scrap metal facilities stated that their corporation has applied for these types of licences for other municipalities and that every municipality is different.

This stakeholder asked that we consider the following:

- Consider a noise by-law instead of a licensing by-law;
- Consider an exemption to the operating hours or an exemption permit;
- Consider an explicit tiered approach that clearly outlines the requirements for each type of scrap metal facility that may be caught under the definitions of this by-law; and,
- Consider an equivalency clause for submitting the documents that may be required on Section 3.1(6) of the proposed Licensing By-law given that this corporation and potentially others have previously conducted such studies as part of their MECP approvals process.

A larger scrap metal facility stated that the hours of operation should be black and white and outline the types of activities allowed during certain hours of the day such as crushing and shredding of metal.

There was a consensus from stakeholders that the hours of operation are limiting especially for some of the corporations that operate twenty-four hours a day. There are concerns that once Algoma Steel's Arc Furnace is implemented that other businesses may require an expansion of their operating hours to ensure no disruption in the supply of scrap metal. A comment received from one of the stakeholders was to have exceptions to the hours including for receiving a shipment of scrap metal.

Another concern addressed by stakeholders with the current proposal of the licensing by-law is restricted hours on corporations/companies that are located in an industrial zone.

There are other industries that have scrap metal as a small percentage of their operations that will also get captured under the proposed licensing by-law. These businesses have expressed concerns with having to get a licence given how small scrap metal is to their operations.

Salvage yards that also operate as a towing company expressed concerns regarding the hours of operation. These businesses are requesting that the hours of operation do not include towing vehicles off roadways.

A local towing company has advised that there are vehicles, both scrap vehicles and non-scrap vehicles that are abandoned and sit at their property as a result of them waiting for insurance companies to respond or bailiffs to release the loans. Further, City staff was advised that the Provincial Towing Association of Ontario (PTAO) is also looking at licensing tow companies. This would result in tow companies having to receive a provincial licence and a City licence for the scrap yard aspect of their operations.

City staff also received a comment with respect to environmental concerns related to stakeholders' improper removal or handling of liquids that could potentially contaminate soils.

During the stakeholder consultation meeting, there was a discussion that MECP currently regulates scrap yards and scrap metal facilities through provincial licensing, which is correct. Stakeholders have expressed concerns that this proposed licensing by-law is a repetitive process requiring local businesses and corporations to apply for and receive another licence, which would include stakeholders possibly being required to submit documents already provided to MECP to the City.

The general consensus among stakeholders is more time is needed to properly inform the City staff as to how their operations will be impacted by the proposed by-law. The stakeholders asked for more time to provide comments on limiting their operations and the economic impacts the proposed by-law may have on them and their ability to produce metal for Algoma Steel's Arc Furnace.

Lastly, representatives from Algoma Steel attended the stakeholders meeting to discuss how the by-law would affect their operations once the Arc Furnace was online. Further discussion they felt was needed with City representatives.

Summary and Next Steps:

After conducting the consultations, it is evident that further consultations need to take place. City staff have determined there may be several unintended consequences of proceeding with a licensing by-law as currently proposed. City Staff require more time to receive the additional input that key stakeholders wish to provide.

For these reasons, City Staff did not return a final by-law at this meeting and will conduct further research to determine how best to proceed and if there are better avenues to address this resolution. This could include considering amendments to current City by-laws instead of implementing a separate licensing by-law or providing amendments to the proposed licensing by-law including outlining specific requirements for each category of scrap metal business defined in this proposed by-law with possible exclusions.

City Staff will provide a further update after having the opportunity to receive further information and feedback from stakeholders.

Financial Implications
There are no financial implications to municipal finances.

Strategic Plan / Policy Impact / Climate Impact
The passing of a licensing by-law to regulate Scrap Metal Facilities is not directly articulated in the Corporate Strategic Plan; however, it does touch upon Community Development

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Solicitor/Prosecutor dated August 28, 2023, regarding an update for Scrap Metal Facilities be received as information.

Respectfully submitted,

Jenna Ricard
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Jonathan Kircal, RPP, Planner
DEPARTMENT:	Community Development and Enterprise Services
RE:	Regulating Snow Disposal Sites

Purpose

This report discusses the impacts associated with snow disposal sites and summarizes key regulations across North American cities on the design, operation and location of these sites. The report also discusses the implementation of regulations, environmental safeguards and fee structures.

Background

At its April 8, 2018 meeting, Council passed the following resolution:

> Whereas many contractors charge commercial and multi-residential buildings significant amounts to collect and dispose of piled snow on their properties; and
>
> Whereas the City of Sault Ste. Marie does not have any special zoning provisions identifying where these piles of snow can be brought and dumped within the city limits; and
>
> Whereas the Planning Department requires that any property requesting a change in use has a drainage plan to ensure that no harmful substances are making their way into the City's ditches and sewers; and
>
> Whereas no similar safeguards exist for the substances that flow from snow dumps into the City's ditches and sewers;
>
> Now Therefore Be It Resolved that the Planning Department along with the input from any other department be requested to investigate the creation of a new zoning classification for snow dumps and further that it considers:
>
> - a fee structure to offset or cover the costs the City incurs from the annual runoff from snow dumps (either as part of the Stormwater Management Fee Study, or independent of it);

- environmental safeguards to ensure the runoff of any harmful substance is minimized to the greatest degree possible.

Analysis

Snow disposal sites, or snow dumps, are used as locations to deposit off-site accumulated snowfall. Properties with limited space to store snow on-site utilize contractor services to remove, haul and dispose of it. Snow dumps can be either privately operated by a commercial entity, or municipally owned and operated.

As reported recently to Council in the winter control study by Maclaren Municipal Consulting Inc. snowfall has averaged about 320 cm in recent years in Sault Ste. Marie, more than other northern cities, and in fact more than most cities in Canada. Due to such extraordinary snowfall, snow dumps are an essential component of the snow removal process, but they are associated with a number of social, environmental and economic impacts that vary depending on the location and operation of the site.

Snow is exposed to a number of contaminants such as litter, dust, vehicle-related oil and grease, salts and de-icers. When seasonal change begins to melt the snow, excess drainage can impact neighbouring properties, leachate can seep into surface and groundwater resources and other natural features, posing a risk to environmental and human health.

Noise that is associated with truck haul routes and on-site operations pose compatibility issues when in close proximity to residential uses, particularly when it is a 24-hour operation. Stormwater management, the visual impact of snow disposal sites, and the windborne residue left behind when it melts also pose issues for neighbours.

The City receives a limited number of snow dump related complaints. Such complaints are typically related to truck noise and drainage as a result of snow melt. Residents' concerns are typically not longstanding given that such sites appear to move around from year to year and are not permanent. In past instances where snow dumps have led to piled garbage and other residue, the Property Standards By-law was enforced to get property owners to clean up their site.

<u>Municipal Scan of Regulations</u>

The City of Sault Ste. Marie does not regulate the location of snow disposal sites, therefore, there is no system in place to track or inventory the number or location of snow sites. A municipal scan was undertaken to identify how other cities manage snow disposal sites. Common approaches include minimum distance separations from residential uses and sensitive environmental features, noise mitigation measures, buffers for visual screening, stormwater management

systems, and restricting snow sites to a specific zone (e.g. industrial zoned properties).

Some cities with high snowfall levels such as St. John's, Halifax, Marquette, and Buffalo have little to no regulations with respect to snow storage sites. Sudbury restricts commercial snow dumps to heavy industrial zones. Thunder Bay requires water quality control measures if the storage area is within 300 meters of a natural shoreline or drainage way. No regulations were found for Timmins.

Municipal Scan of snowfall and regulations

City	Annual Avg. Snowfall (cm)	Regulations
St. John's, NFLD	335	No regulations found.
Sault Ste. Marie, ON	320	No regulations.
Timmins, ON	311	No regulations found.
Moncton, NB	282	Minimum size of 3 hectares. No closer than 30m from wetland and watercourse; 50m from residential, institutional, and recreation use. Must be graded to direct meltwater to a collection pond. Must be located within an area identified in the overlay map.
Sudbury. ON	263.4	Not permitted within environmentally sensitive areas. Must be zoned Heavy Industrial.
Thunder Bay, ON	162.9	Water quality control measures required if within 300m of a natural shoreline or manmade drainage way.
Halifax, NS	154	No regulations found.
Marquette, MI	149	No regulations found.

As a result of heavy snowfalls or overall accumulation, snowbanks grow to heights and widths that potentially pose a safety hazard for vehicular and pedestrian traffic as well as storage issues on private lots that restrict the necessary parking or other use of the space. Regulations can make it more expensive and impractical to establish a snow site as well as push locations further away from denser parts of the City where expedited snow removal is most critical.

There are exceptions. Moncton, NB for example, has restrictive regulations despite receiving some of the highest snowfall levels in the country, but in contrast to other communities, Sault Ste. Marie included, the City of Moncton is more involved in the snow removal process by providing fee-based snow storage space for private contractors, reducing the reliance on private snow dumps.

Environmental Safeguards

Solutions to mitigate environmental concerns, particularly untreated run-off, would require significant investments in water quality treatment devices such as catch basins and oil and grit separators. This would be a challenging undertaking for private contractors to implement and likely lead to a significant reduction in services and increased snow removal costs.

The City's own snow disposal sites are not equipped with such environmental management mechanisms. Upgrading these sites to meet environmental best practices would add an additional burden to an already strained capital construction budget. It would be difficult to require private sector sites to meet such standards without the City also meeting the same standards.

Provincial Regulations for Snow Dumps

In most cases, there are no formal Provincial approvals for private snow dumps.

Depending on the scale and design of a municipal snow dump, Provincial approvals may be required.

The Ontario Ministry of the Environment, Conservation and Parks (MECP) has published "Guidelines on Snow Disposal and De-icing Operations in Ontario" (2011). It provides general guidance on snow disposal, but does not provide specific or formal direction on the design of snow disposal.

Fee Structure to Offset Costs

There are no direct expenses incurred by Public Works as they do not perform extra ditching as a result of private snow disposal sites.

Recommended Approach

At this point in time, Planning staff recommend that the approach to address the compatibility and environmental concerns with private snow dumps is to work with relevant operators and property owners to educate and raise awareness on the issues and best practices. Depending on the effectiveness of this outreach, the need to establish formal regulations can then be considered. Staff will monitor the situation, with particular emphasis on neighbour complaints, proximity to sensitive locations, and on-site snow management methods. Building staff will continue with Property Standards enforcement where applicable.

Regulations can push snow dumps to locations that are further away from the areas where they are needed most, such as denser neighbourhoods and

developments. This can impact efficiency in terms of cost and service times given that haulage distance is a critical component of the snow removal process.

It is also worth noting that recent trends of infill development, intensification and the lowering of parking requirements may reduce on-site snow storage capacity, while also increasing the demand for private snow dumps.

At present, there is insufficient capacity for municipal snow storage sites to accept snow disposal from private contractors. Allowing municipal sites to accommodate private needs would likely result in operational and service level impacts for city snow clearing operations as well as bring about the need for controlled access, administration of a fee structure, increased monitoring of use, increased clean-up responsibilities following melt period, potentially increased environmental risks, etc.

Financial Implications
Accepting this report as information will not result in any incremental changes to municipal finances.

Strategic Plan / Policy Impact / Climate Impact
This information report is not directly linked to any strategic directions contained with the corporate strategic plan. Regulations have the potential to relocate snow disposal sites further away, resulting in increased travel distances and associated fuel consumption and environmental impacts.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Planner dated August 28, 2023 concerning regulating snow disposal sites be received as information.

Respectfully submitted,

Jonathan Kircal
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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Tom Vair, Deputy CAO, Community Development and Enterprise Services
DEPARTMENT:	Community Development and Enterprise Services
RE:	Downtown Security Patrols

Purpose

The purpose of this report is to respond to a Council resolution requesting information on the implementation of downtown security patrols.

Background

On July 31, 2023, City Council passed the following resolution:

> *Whereas from 2020 to 2022, the Downtown Association undertook overnight downtown security patrols in their business improvement area; and*
>
> *Whereas in 2022, the City of Sault Ste. Marie took over responsibility for the cost of the downtown security patrols as a 6-month pilot project, (known as the Downtown Security Pilot Program – or DSPP); and*
>
> *Whereas the DSPP was not funded on a permanent basis when it expired in the fall/winter of 2022; and*
>
> *Whereas the cost of continuing the DSPP on an ongoing basis was $105,378 per annum, as set out in the Council report of December 12, 2022, with a contribution from the Downtown Association; and*
>
> *Whereas dynamic patrols undertaken by the Sault Ste. Marie Police Service have been successful since implemented in June 2023, but are only expected to be conducted throughout the summer months; and*
>
> *Whereas the success of the downtown police dynamic patrols has highlighted the need for a permanent security or police presence in the downtown; and*
>
> *Whereas the presence of police or security in the downtown area will assist in the feeling of safety residents have when in the downtown, and encourage more people to patronize downtown businesses;*

Now Therefore Be It Resolved that staff be requested to bring forward a report, by August 28, 2023 including:

- *Options for in-year funding of the Downtown Security Patrols for the remainder of 2023 once the dynamic police patrols end;*
- *Recommended hours of operation for the downtown security patrols;*
- *The Downtown Association's willingness to participate in and fund a portion of the patrols; and*
- *A referral of the ongoing cost of the program to the 2024 budget.*

Analysis
Further information related to the points identified in the Council resolution are provided below:

Estimated cost
As indicated in the Council report of December 2022, the cost for the previous security patrol initiative was $105,378 per annum. It is anticipated that any future RFP will see an increase in costs for a similar service due to inflation particularly related to fuel costs. Using an increase of 4% would bring the estimate to $109,593. Should Council wish additional hours of coverage (day time, early morning) this can also be explored with the hourly rate being approximately $28-32/hr.

The RFP package issued for the previous pilot indicated the City was interested in receiving the recommendation of proponents as to the best method to provide security patrol services (drive-by, occasional foot patrol) and welcomed other innovative ideas that fit within the budget of this pilot project.

One proponent did respond with an option for a patrol with less hours that would be assisted by a camera system in the most prone location. The cost was slightly more than the budget and wasn't selected at the time. This could be a consideration for a future RFP should Council choose to support ongoing security patrols. Updated technology capabilities and pricing may be available and this option could be explored further.

It also recommended that, should the City proceed with an RFP for services, a request to have consistency in the personnel who provide security services is sought. This will enable the security patrol team to develop knowledge and awareness of the downtown, business owners and key locations.

Hours of operation
Initially, the hours of operation for the pilot security patrol was 10pm-6am seven days per week. The security patrol pilot was adjusted as of November 7, 2022 to shift the security patrols to 6am-4pm coverage. There was a desire by the Downtown Association to trial a shift to daytime hours as some expressed limited value to the nighttime patrols and wanted to evaluate daytime patrols.

In advance of this report, the Downtown Association conducted a survey of its members and the results indicate that 58.9% of members would prefer mixed daytime and overnight security patrols; 23.5% chose overnight security service and 17.6% chose daytime security service.

The survey also indicated that 41.2% of respondents felt homelessness and addiction was their main concern; 20.6% theft; 17.6% vandalism; 8.8% all of the above; 2.9% break and enters; 2.9% loitering.

Geographic Area
The geographic area covered by the pilot program was on commercial businesses located along Queen Street (from Pim Street to Gore Street) with patrols along the front and rear of businesses. The patrol route included Bay Street and this included the alleyways and rear of businesses between Queen Street and Bay Street. In addition, the patrol included secondary patrols along Gore Street and to Huron Street (covering the Canal District and Mill Market properties).

Since the Council resolution was passed, there has been some communication from members of the community seeking to increase the geographic footprint of the patrols to include the broader downtown area.

In order to have effective patrols (frequency of patrol), it is anticipated an expanded geographic area will require additional security personnel and fees.

Downtown Association Participation
At the most recent Downtown Association Board meeting, a financial contribution was discussed but no final contribution confirmed. Representatives from the Downtown Association are in attendance at today's Council meeting and can address questions regarding financial participation.

Sault Ste. Marie Police Services (SSMPS)
Sault Ste. Marie Police Services confirmed that downtown SSMPS patrols will continue into the fall on a voluntary basis funded by a Provincial grant.

In addition, SSMPS have utilized Provincial grant money to partner with the PUC and Spectrum (current vendor of record for highway cameras) to install up to 30 PUC light pole cameras as well as 6-8 Spectrum cameras in the downtown core. Currently the Privacy Commissioner is reviewing this project and SSMPS will ensure compliance with privacy legislation. Once an incident occurs, investigators will be able pull up the recorded data and begin the investigation. This project has been underway since March of this year.

In addition, the SSMPS will be providing a downtown policing proposal to the Police Services board this Fall to increase policing in the downtown core.

Downtown Ambassador Program
Given that 41.2% of Downtown Association members cited homelessness and addiction was their main concern, another consideration for City Council would

be to consider a mix of security patrols and expanded hours of the Downtown Ambassador program to include daytime hours (suggested as 7am-11am or 8am-12pm). The cost for an additional 20 hours per week would be approximately $56,160.

Financial Implications

The financial implication of downtown security patrols and services will depend on the option selected by Council – type of service (security patrols, Downtown Ambassador), hours of service and geographic boundaries.

The cost for re-implementing the previous service is estimated to be approximately $110,000 per year.

In-year security services could be addressed by utilizing the contingency reserve and staff would recommend no more than $60,000 be utilized for the remainder of 2023.

Strategic Plan / Policy Impact / Climate Impact

This item aligns with the Corporate Strategic Plan in the Quality of Life focus area:

Vibrant Downtown Areas – We are striving to create a vibrant and attractive downtown that contributes to the vitality and resiliency of our City. Downtown areas play a central role in defining the character of our City.

Recommendation

It is therefore recommended that Council take the following action:

Resolved that the report of the Deputy CAO, Community Development and Enterprise Services dated August 28, 2023 concerning downtown security patrols be received and City Council refer the expense to 2024 budget deliberations.

Further, that City Council approve the utilization of up to $60,000 from the contingency reserve to support in-year implementation of security services for the remainder of 2023.

Respectfully submitted,

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The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Carl Rumiel, Director of Engineering
DEPARTMENT:	Public Works and Engineering Services
RE:	Five Year Capital Transportation Program (2024–2028)

Purpose

The purpose of this report is to present the tentative five-year capital transportation program.

Background

The capital transportation budget is brought to Council for approval with the annual budget in December after a capital priorities assessment is complete. Council is not being asked to approve the 2024 capital roads budget this evening. However, it is necessary to procure engineering services to proceed with field data acquisition and begin design of 2024 capital works in order to ensure timely tenders in the new year.

Capital road improvements for the City of Sault Ste. Marie are carried out under a number of programs including capital road construction, infrastructure improvement programs and the Connecting Links program. The capital transportation program emphasizes reconstruction of arterial and collector streets, which are critical to the City's movement of traffic while at the same time attempting to address some of the numerous needs of local residential streets as well as to make improvements to key areas of the community. If funds permit in any given year, it is recommended they be directed towards rehabilitating these roads as additional funds are required.

Analysis

Road sections are recommended for the Capital Transportation Program based primarily on pavement condition index scores which are tabulated based on road condition in the Asset Management program. All road sections are evaluated and scored based on many factors, including but not limited to road surface condition, road structure, surface drainage etc. Age and condition of water mains, sanitary and storm sewers, level of maintenance, and traffic volumes are also considered when selecting road section for reconstruction. An attempt is made to keep the mix between arterials, collectors and local streets. It should be understood, however, that arterials and collectors are emphasized as they have the greatest need and their reconstruction benefits the most people. Major new road projects and other

road improvements recommended from environmental assessments are also blended into the plan. They may also be recommended as candidates for future potential funding programs from senior levels of government.

Bridges and Aqueducts

Considerable capital funds have necessarily been diverted to bridges and aqueducts in past programs. Currently the Central Creek aqueduct on Central Street has been under construction for the past few years rebuilding small sections at a time. Aqueducts and bridges are evaluated by a professional structural engineer every two years who makes these recommendations. The Asset Management Plan includes one bridge that is forecasted to be replaced within the next few years.

Active Transportation – Hub Trail and Future Spokes

In past years, cycling lanes, segments of off-road trails and paved shoulders have been constructed under capital roads projects. The intention is to include construction of active transportation components in tenders for capital projects if they are within the construction limits or in the near vicinity of a project.

Update – 2023 Program

The following projects are currently underway:

- Wemyss Street reconstruction – Pim to Trelawne
- Biggings Avenue reconstruction – Queen to Wellington
- Blake Avenue reconstruction – McNabb to Wawanosh
- Carmen's Way resurfacing – Queen to Second Line
- Central Street Aqueduct repairs
- 2023 road resurfacing contract
- Traffic signal upgrades – various locations

Due to budget shortfalls, the reconstruction of Stanley Street was cancelled for 2023 and is recommended for the 2024 program.

Recommended 2024 Program

The attached Five-Year Transportation Program represents the proposed 2024-2028 programs assuming that the Queen Street improvements are approved and begin in 2024. In the event that the Queen Street improvements are not approved, an amended Five-Year Transportation Program will be presented.

Approval is sought this evening for the 2023 portion of engineering for 2024 projects. An allowance was included in the 2023 capital budget for this purpose. Approval for the balance of engineering and construction costs will be sought during deliberations for the 2024 budget. The attached list also includes a group of class A urban arterial streets and class B rural streets requiring resurfacing now

or in the very near future. If funds permit in any given year, it is recommended they be directed towards rehabilitating these roads as resurfacing funding in the miscellaneous construction program is insufficient. Program costs are based on preliminary estimates. Detailed road design may reveal additional expenditures or cost savings that are not possible to identify at this preliminary stage.

The tentative list of 2024 projects are as follows:

Queen Street Improvements – Bruce to East: Surfaces, boulevards and walkways along Queen Street have outlived their useful life and are due for replacement to enhance accessibility, incorporate active transportation features and restore acceptable service levels. In addition, many of the trees have succumbed to disease and the downtown would benefit from aesthetic enhancements including new streetscape features to encourage increased activity. This project is linked to the downtown development portion of the strategic plan.

Stanley Street – Pine to Elizabeth: This road section was approved in the 2023 program and cancelled due to budget constraints. The road requires full replacement of underground services and road structure.

Spruce Street – Railroad to Wilcox: This road section requires full replacement of underground services and road structure.

Lower Lake Street – Queen to Civic 24 Lake Street: This road section requires full replacement of underground services and road structure. Further, as an entrance to Bellevue Park this road section is need of pedestrian facilities.

Great Northern Road – Third Line to Wigle: This section of road is the City's next highest Connecting Link priority and will be the project that is applied for in the 2024 Connecting Link program application.

Bridges and Aqueduct: Replace failing cross culvert on Fourth Line, east of Old Goulais Bay Road near Civic 340 Fourth Line and continue with small sections of the Central Street aqueduct replacement.

Engineering 2025: An allocation for 2025 engineering must be included in the 2024 budget to ensure tenders are on schedule.

Resurfacing – Various Roads: An allocation is required in the 2024 capital roads budget for resurfacing. Arterials roads such as Wallace Terrace and Second Line West are all in need of a new asphalt surface. Roads are prioritized and annual programs are brought to Council for approval each spring.

Traffic Signal Upgrades: An allocation is required in the 2024 capital roads budget for replacement of aged traffic signal controllers.

Professional design services for 2024 projects will be retained in accordance with the procurement policies and procedures bylaw, and a report recommending engineering firms for projects not being done in-house will be brought to Council in the near future.

2025–2028 Programs

The potential 2025 through 2028 programs are shown on the attached plan based on needs identified in the City's asset management plans. The Engineering Division will be updating the five-year capital transportation program on an annual basis and individual programs will be recommended to Council for approval with the capital budgets.

Allowances for bridges and aqueducts are based on biennial inspections and the asset management plan. Inspections may alter the forecasts, and these allowances are reviewed annually.

Financial Implications
The 5-year Capital Transportation Program is based upon the recommended priorities within the City's asset management plans. Funding availability will be assessed along with other corporate capital priorities and presented to Council with the 2024 Capital Budget. This report has no impact on the approved 2023 capital transportation program. An allowance of $200,000 was allotted in the 2023 budget for the purposes of commencing design work for 2024 projects. Additional funds for completion of design and contract administration, and for construction of 2024 projects, will be brought to Council with the 2024 capital budget.

Strategic Plan / Policy Impact / Climate Impact
Improvements to capital infrastructure including roads, storm and sanitary sewers, aqueducts, and bridges are linked to the infrastructure component of the strategic plan.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the report of the Director of Engineering dated August 28, 2023 concerning the 2024–2028 Five-Year Capital Transportation Program be received and that Council approve the 2024–2028 programs in principle; that the Engineering Division proceed with any local improvement notices for 2024 works; that staff procure consulting engineering services for projects not to be completed by in-house staff; and that the resurfacing of Great Northern Road between Third Line and Wigle Street be the designated project for the City's application to the 2024 Connecting Link Program, be approved.

Respectfully submitted,

Carl Rumiel, P. Eng.
Director of Engineering
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2024-2028 CAPITAL TRANSPORTATION PROGRAM					
Year	**Street**	**From**	**To**	**Cost**	**Comments**
2024	Queen Street Phase 1	Buce Steet	East Street		Queen Street Streetscaping - Phase 1
2024	Stanley Street	Pine Street	Elizabeth Street		Full reconstruction, watermain break history
2024	Spruce Street	Railroad Avenue	Wilcox Avenue		Full reconstruction
2024	Lower Lake Street	Queen Street	Civic 24		Full reconstruction, watermain break history
2024	Great Northern Road	Third Line	Wigle Street		Resurfacing - assume 90% CL grant
2024	Bridges and Aqueducts				Fourth Line Culvert/Aqueducts
2024	Engineering - 2025				Engineering for next year capital
2024	Various Roads				Road Resurfacing ($400k to Second Line West)
2024	Traffic Signal Upgrades				Trafiic Signal Controller Replacements
2024	South Market - Additional funds				Additional funds added to previous budget
			Total	**$ 21,400,000**	
2025	Recommendations from Peoples Road Drainage EA				Allowance for EA recommendations
2025	Sackville Extension	Near Third Line	early works in ravine		Ravine crossing - to induce settlement
2025	Oregon Road	Bennett blvd	Indian Drive		Full reconstruction
2025	Connecting Link				Resurfacing - assume 90% CL grant
2025	Bridges and Aqueducts				Rehabilitation - aqueducts, bridges and culverts
2025	Engineering - 2026				Engineering for next year capital
2025	Various Roads				Road Resurfacing ($400k to Second Line West)
2025	Traffic Signal Upgrades				Trafiic Signal Controller Replacements
2025	Dyment Street	Goulais Avenue	Central Street		Full reconstruction
			Total	**$ 21,400,000**	
2026	Queen Street Phase 2	East Street	Pim Street		Queen Street Streetscaping - Phase 1
2026	Sackville Road	North Limit	Third Line		New construction
2026	East Street	Bay Street	Queen Street		Full reconstruction
2026	Connecting Link				Resurfacing - assume 90% CL grant
2026	Bridges and Aqueducts				Rehabilitation - aqueducts, bridges and culverts
2026	Engineering - 2027				Engineering for next year capital
2026	Various Roads				Road Resurfacing ($400k to Second Line West)
2026	Traffic Signal Upgrades				Trafiic Signal Controller Replacements
			Total	**$ 21,400,000**	
2027	Recommendations from Peoples Road Drainage EA				Allowance for EA recommendations
2027	Pilgrim Street	Herrick Street	Wellington Street		Full reconstruction
2027	Cumberland Avenue	Third Avenue	EOP		Full reconstruction
2027	Connecting Link				Resurfacing - assume 90% CL grant

2027	Bridges and Aqueducts				Rehabilitation - aqueducts, bridges and culverts
2027	Engineering - 2028				Engineering for next year capital
2027	Various Roads				Road Resurfacing ($400k to Second Line West)
2027	Traffic Signal Upgrades				Trafiic Signal Controller Replacements
			Total	**$ 18,700,000**	
2028	Queen Street Phase 3	Gore Street	Bruce Street		Queen Street Streetscaping - Phase 2
2028	Recommendations from Peoples Road Drainage EA				Allowance for EA recommendations
2028	The Drive	The Cresecent	Putney Road		Full reconstruction
2028	Connecting Link				Resurfacing - assume 90% CL grant
2028	Bridges and Aqueducts				Rehabilitation - aqueducts, bridges and culverts
2028	Engineering - 2029				Engineering for next year capital
2028	Various Roads				Road Resurfacing ($400k to Second Line West)
2028	Traffic Signal Upgrades				Trafiic Signal Controller Replacements
2028	Herkimer Bridge				Full reconstruction
			Total	**$ 19,500,000**	

The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Nicholas Cicchini, Junior Planner
DEPARTMENT:	Community Development and Enterprise Services
RE:	A-8-23-Z 534 Third Line East (Reghold Corporation)

PURPOSE

The applicant, Reghold Corporation (c/o Mark Lepore), is requesting to rezone the subject property to permit a trucking maintenance shop and equipment holding/transfer yard.

PROPOSED CHANGE

The applicant is seeking Council's approval to rezone the subject property from Rural Area (RA) Zone to Medium Industrial (M2) Zone to permit a "trucking maintenance shop and equipment holding/transfer yard.

Subject Property:

- Location: Located on the North side of Third Line East approximately 294 metres West of the intersection of Third Line East and Great Northern Road.
- Approximate Size: Irregular in shape, has 99m (324.7 ft) of frontage along Third Line East, with a depth of 209.6m (687.75 ft) and an area of 3.14 Hectares (7.75 Acres)
- Present Use: Vacant Land
- Owner: Reghold Corporation

BACKGROUND

The subject property was re-designated to Industrial as part of the 2001 Industrial Land Development Strategy.

ANALYSIS

Conformity with Official Plan

Schedule C (Land Use) of the Official Plan designates the property as Industrial. As per the Official Plan industrial land use includes businesses engaged in: logging and forestry, manufacturing, construction, **transportation and storage**, communication, other utility and wholesale trade industries.

The proposed use of the subject property is Industrial and therefore in conformity of the Official Plan.

Conformity with Provincial Policy Statement 2020

The Provincial Policy Statement 2020 (PPS) provides policy direction on matters of provincial interest related to land use planning and development. Council's decision must be consistent with the policies contained in the PPS. The proposed amendment has been reviewed against these policies and is consistent as follows:

Transportation and Infrastructure Corridors
1.6.8.2 - Major goods movement facilities and corridors shall be protected for the long term.

Long-Term Economic Prosperity
1.7.1 - Long-term economic prosperity should be supported by: (a) promoting opportunities for economic development and community investment-readiness.

The proposed development is in close range and easy access to the Trans-Canada Highway. The Trans-Canada Highway is a major transportation route of manufactured and agricultural goods, which increases inter-provincial trade. Therefore the proposal is consistent with the Provincial Policy Statement.

Conformity with Growth Plan for Northern Ontario 2011

The Growth Plan for Northern Ontario 2011 (GPNO) establishes a framework for managing growth in Northern Ontario. Council's decision must either conform or not conflict with the plan. The proposed amendment has been reviewed against the GPNO and is consistent as follows:

2.3.11 Transportation, Aviation, and Aerospace

(1) Efforts by the Province, industry and, where appropriate, other partners, to grow and diversify the transportation, aviation and aerospace sector…

The proposed development is consistent with the Growth Plan for Northern Ontario.

COMMENTS
The applicant, Reghold Corporation, is requesting to rezone the subject property to permit a trucking maintenance shop and equipment holding/transfer yard.

Due to the nature of the proposed development and the close proximity of sensitive land uses – five (5) neighbouring residential homes - the applicant retained Northern Applied Sciences Inc. to conduct an Acoustic Assessment Report. The study was an acoustic assessment for a trucking yard use only.

The results of the report stated:

"Based on the results of the acoustic assessment, it can be concluded that the noise impacts at the sensitive points of reception from both stationary and impulsive noise sources meet the applicable Ontario MECP noise criteria, as defined by NPC-300, during the worst-case operating scenario. Additional noise mitigating measures are not required for the site. Based on a review of process operations, a vibration assessment is not warranted."

With the proposed development being in close proximity to sensitive land uses, Planning Staff recommends that the subject property permit the Road Transportation and Warehousing use only, rather then the full suite of Medium Industrial (M2) permitted uses, as the sound study was specific to the proposed trucking yard only.

It is however noted that the adjacent residential properties are also designated Industrial in the Official Plan, which was done as part of the 2001 Industrial Land Development Strategy, but the homes are zoned Estate Residential (R1) Zone.

CONSULTATION

Public notices were mailed to all neighbouring property owners within 120m (400') of the subject property on August 4, 2023. The notice that was mailed to property owners is attached to this report. The notice was also advertised on the City website and in the Sault Star on August 5, 2023.

A neighbourhood meeting was held on October 20, 2022 where concerns from neighbouring properties were discussed. The concerns of the neighbours were as follows:

1. As the subject property was being cleared in preparation for construction, the contractor inadvertently cleared an area belonging to the residential neighbours located southeast of the subject property. The contractor has replaced some trees.

2. Neighbours have requested a sound fence along the south interior lot lines with a small vegetated area, then a drainage ditch. The applicant was not agreeable to a sound fence as the Acoustic Assessment Report indicated "Additional noise mitigating measures are not required for the site. Based on a review of process operations, a vibration assessment is not warranted." A 2.4 m visually solid fence with small vegetated area, then a drainage ditch will be required through Site Plan Control.

3. Light Pollution was a concern with the removal of the trees. The visually solid fence should help with light pollution. As part of the Site Plan Control process planning staff will ask for lighting details in order to mitigate light trespass so that it is not an issue.

4. Environmental concerns were raised by the neighbors, related to leaking oil from vehicles on the subject property. The property owner has confirmed there will be no refueling facilities on-site. Nearby homes are all on municipal water – therefore no wells.

5. Drainage issues were voiced as the rear yards of the residential homes are having ponding issues. A drainage plan will be required as part of Site Plan Control.

6. Concerns regarding the potential of the increased amount of traffic and transportation trucks in the subject property area on Third Line East were raised during the neighbourhood meeting.

   Engineering staff were circulated this application and have no issues. The portion of Third Line East that will be subject to this development is classified as an Arterial Road and designated as a Class A Truck Route.

Public Comments
At the time of writing this report no official public comments have been submitted.

Application Circulation

As part of the application review, this proposal was circulated to City divisions and external agencies for detailed technical review and comment.

The following City Division and external agencies had no comments and/or objects to this proposal: Building Division, Community Development and Enterprise Services, Fire Services, Legal Department, Municipal Heritage Committee, PUC Services, Public Works, Accessibility Committee, Canada Post, Bell Canada, and Rogers's Communications Canada.

The following City Division and external agencies had the following comments:

The City's Engineering Division recommends the subject property be deemed an area of Site Plan Control for the purpose of addressing servicing, drainage, and access requirements.

The Sault Ste. Marie Regional Conservation Authority (SSMRCA) stated that the subject property is under the jurisdiction of the SSMRCA and notes that any development will require a site plan review and also may require a permit from SSMRCA.

FINANCIAL IMPLICATIONS
Approval of this application will not result in any incremental changes to municipal finances.

STRATEGIC PLAN / POLICY IMPACT

Approval of this application is not directly linked to any Strategic Directions contained within the Corporate Strategic Plan. There are no significant climate change impacts anticipated from this application

RECOMMENDATION

It is therefore recommended that Council take the following action:

Resolved that the report of the Junior Planner dated August 28, 2023 concerning Zoning By-law Amendment Application A-8-23-Z be received and that Council approve the application as follows:

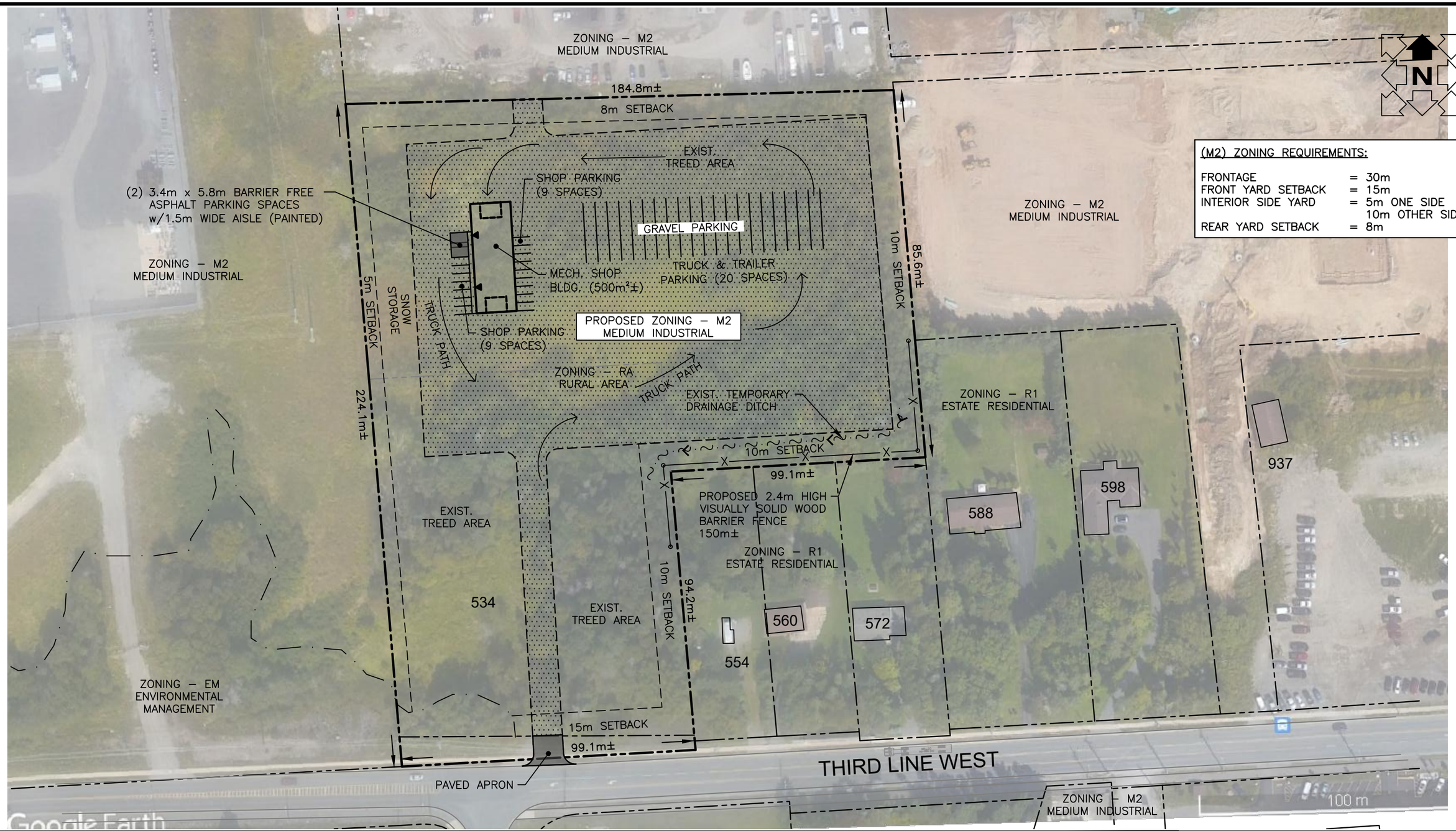
Rezone the subject property from Rural Area (RA) Zone to Medium Industrial (M2.S) Zone with a Special Exception to:

1. Permit the use of Road Transportation and Warehousing only and accessory uses thereto; and
2. Deem the subject property an area of Site Plan Control.

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

Respectfully submitted,

Nicholas Cicchini
Junior Planner
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No.	DATE	BY	ISSUES / REVISIONS
1	JUNE 13, 2023	KTN	REVISED PER CITY COMMENTS
0	JAN. 30, 2023	JML	ISSUED FOR RE-ZONING APPLICATION

TULLOCH

DRAWING:

CONCEPTUAL SITE PLAN
(RE-ZONING SKETCH)

PROJECT:

534 THIRD LINE WEST
TRAILER STORAGE AND MECH. SHOP

DRAWN BY:	CHECKED BY:	PROJECT No. :	
KTN	JML	230608	
DESIGNED BY:	APPROVED BY:	DRAWING No.	REVISION No.
KTN	JML	SK1	1
SCALE:	DATE:		
1:1250	JAN. 30, 2023		

P:\2023\230608 Third Line East – Site Development\Civil\04 Drawings\230608 Site Plan 23-06-13.dwg

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Acoustic Assessment Report (AAR)
534 & 556 Third Line East, Sault Ste. Marie

NAPSCI Ref. No: 22-020
Report Date: April 11, 2023

PREPARED FOR:

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Executive Summary

Northern Applied Sciences Inc (NAPSCI) was retained by Reghold Corporation to prepare an acoustic assessment report for a proposed truck dispatching and maintenance facility located at 534 & 556 Third Line East, Sault Ste. Marie, Ontario. As the site has not yet been constructed, sound levels were estimated based on accepted engineering estimation techniques for comparable sources expected to be at the site. Sound levels were entered into Cadna-A acoustic modelling software to determine the noise impacts at sensitive receptors located near the facility. The worst-case noise impacts at the sensitive receptors generated by noise sources at the facility are summarized below:

Acoustic Assessment Summary Table (Stationary Sources)

Point of Reception	Description of Reception Point	Facility Leq (dBA)	Class 1 Performance Limit (dBA)	Compliance with Performance Limit
Day (0700 h to 1900 h)				
POR1a	Residence Yard (@ 1.5 m)	49	50	Yes
POR1b	Residence Window (@ 1.5 m)	47	50	Yes
POR2a	Residence Yard (@ 1.5 m)	48	50	Yes
POR2b	Residence Window (@ 4.5 m)	48	50	Yes
POR3a	Residence Yard (@ 1.5 m)	46	50	Yes
POR3b	Residence Window (@ 4.5 m)	47	50	Yes
POR4a	Residence Yard (@ 1.5 m)	48	50	Yes
POR4b	Residence Window (@ 4.5 m)	47	50	Yes
POR5a	Residence Yard (@ 1.5 m)	42	50	Yes
POR5b	Residence Window (@ 4.5 m)	44	50	Yes
POR6a	Residence Yard (@ 1.5 m)	29	50	Yes
POR6b	Residence Window (@ 4.5 m)	31	50	Yes
POR7a	Residence Yard (@ 1.5 m)	36	50	Yes
POR7b	Residence Window (@ 4.5 m)	37	50	Yes
Evening (1900 h to 2300 h)				
POR1a	Residence Yard (@ 1.5 m)	47	50	Yes
POR1b	Residence Window (@ 1.5 m)	45	50	Yes
POR2a	Residence Yard (@ 1.5 m)	47	50	Yes
POR2b	Residence Window (@ 4.5 m)	46	50	Yes
POR3a	Residence Yard (@ 1.5 m)	45	50	Yes
POR3b	Residence Window (@ 4.5 m)	45	50	Yes
POR4a	Residence Yard (@ 1.5 m)	46	50	Yes
POR4b	Residence Window (@ 4.5 m)	45	50	Yes

POR5a	Residence Yard (@ 1.5 m)	40	50	Yes
POR5b	Residence Window (@ 4.5 m)	43	50	Yes
POR6a	Residence Yard (@ 1.5 m)	27	50	Yes
POR6b	Residence Window (@ 4.5 m)	29	50	Yes
POR7a	Residence Yard (@ 1.5 m)	34	50	Yes
POR7b	Residence Window (@ 4.5 m)	36	50	Yes
Night (2300 h to 0700 h)				
POR1a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR1b	Residence Window (@ 1.5 m)	42	45	Yes
POR2a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR2b	Residence Window (@ 4.5 m)	43	45	Yes
POR3a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR3b	Residence Window (@ 4.5 m)	42	45	Yes
POR4a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR4b	Residence Window (@ 4.5 m)	43	45	Yes
POR5a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR5b	Residence Window (@ 4.5 m)	40	45	Yes
POR6a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR6b	Residence Window (@ 4.5 m)	27	45	Yes
POR7a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR7b	Residence Window (@ 4.5 m)	33	45	Yes

Acoustic Assessment Summary Table (Impulse Source)

Point of Reception	Description of Reception Point	Facility Leq (dBA)	Class 1 Performance Limit (dBA)	Compliance with Performance Limit
Day (0700 h to 1900 h)				
POR1a	Residence Yard (@ 1.5 m)	67	75	Yes
POR1b	Residence Window (@ 1.5 m)	63	75	Yes
POR2a	Residence Yard (@ 1.5 m)	68	75	Yes
POR2b	Residence Window (@ 4.5 m)	68	75	Yes
POR3a	Residence Yard (@ 1.5 m)	68	75	Yes
POR3b	Residence Window (@ 4.5 m)	68	75	Yes
POR4a	Residence Yard (@ 1.5 m)	70	75	Yes
POR4b	Residence Window (@ 4.5 m)	70	75	Yes
POR5a	Residence Yard (@ 1.5 m)	62	75	Yes
POR5b	Residence Window (@ 4.5 m)	67	75	Yes
POR6a	Residence Yard (@ 1.5 m)	46	75	Yes
POR6b	Residence Window (@ 4.5 m)	48	75	Yes
POR7a	Residence Yard (@ 1.5 m)	51	75	Yes
POR7b	Residence Window (@ 4.5 m)	55	75	Yes
Evening (1900 h to 2300 h)				
POR1a	Residence Yard (@ 1.5 m)	67	75	Yes
POR1b	Residence Window (@ 1.5 m)	63	75	Yes
POR2a	Residence Yard (@ 1.5 m)	68	75	Yes
POR2b	Residence Window (@ 4.5 m)	68	75	Yes
POR3a	Residence Yard (@ 1.5 m)	68	75	Yes
POR3b	Residence Window (@ 4.5 m)	68	75	Yes
POR4a	Residence Yard (@ 1.5 m)	70	75	Yes
POR4b	Residence Window (@ 4.5 m)	70	75	Yes
POR5a	Residence Yard (@ 1.5 m)	62	75	Yes
POR5b	Residence Window (@ 4.5 m)	67	75	Yes
POR6a	Residence Yard (@ 1.5 m)	46	75	Yes
POR6b	Residence Window (@ 4.5 m)	48	75	Yes
POR7a	Residence Yard (@ 1.5 m)	51	75	Yes
POR7b	Residence Window (@ 4.5 m)	55	75	Yes
Night (2300 h to 0700 h)				
POR1a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes

POR1b	Residence Window (@ 1.5 m)	63	75	Yes
POR2a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR2b	Residence Window (@ 4.5 m)	68	75	Yes
POR3a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR3b	Residence Window (@ 4.5 m)	68	75	Yes
POR4a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR4b	Residence Window (@ 4.5 m)	70	75	Yes
POR5a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR5b	Residence Window (@ 4.5 m)	67	75	Yes
POR6a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR6b	Residence Window (@ 4.5 m)	48	75	Yes
POR7a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR7b	Residence Window (@ 4.5 m)	55	75	Yes

As shown in the Acoustic Summary Table, the facility is compliant with the Ontario noise performance limit guidelines as outlined in NPC-300.

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Appendices

Appendix A ..... Supporting Information
Appendix B ..... Noise Calculations & Cadna-A Model
Appendix C ..... Plans & Drawings

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1 Introduction

Northern Applied Sciences Inc (NAPSCI) was retained by Reghold Corporation to review the potential environmental noise impact from their proposed trucking dispatch facility located at 534 & 556 Third Line East, Sault Ste. Marie, Ontario, on nearby sensitive points of reception. The acoustic assessment report was prepared in a manner that satisfies the requirements of Ministry of Environment, Conservation and Parks (MECP) Publications NPC-300 and NPC-233.

The proposed land-use for development is a trucking dispatch facility with a maintenance garage. A noise study has been requested by the City of Sault Ste. Marie in order to quantify community impacts and ensure no additional noise controls would be needed.

The scope of the acoustic assessment involved the following elements:

- Identified all significant sources of noise at the facility.
- Identified nearby sensitive noise receptors to the facility (houses, schools, hospitals, places of worship, etc).
- Estimated sound levels using manufacturer sound performance data or engineering calculations, or previous noise measurements at comparable facilities.
- Predicted the overall noise impact at sensitive points of reception during the worst-case operating scenarios.
- Assessed whether the 'worst-case' noise impacts at the points of reception met the applicable noise limit criteria.

The primary noise sources from this facility include truck traffic in and out of the site, truck coupling and decoupling, indoor maintenance noise escaping the bay doors, forklift activities, rooftop HVAC unit, rooftop bathroom fans. This facility will be implementing a no-idling policy and therefore idling trucks are not expected; however, idling noise emissions were conservatively included in the assessment.

Based on a review of operations, a vibration assessment was not warranted for the facility.

2 Facility Description

Reghold Corporation is proposing to construct a transport truck dispatching and maintenance operation.

The facility serves two main purposes:

- To enable trucks to drop-off and park their trailers and have other trucks pick them up at a later time
- To allow routine repair and maintenance of trucks

The proposed building to be constructed has the following parameters:

- Dimensions of 44 feet wide x 240 feet long x 22 feet high

- A total of four (4) bay doors, two on each end of the building to allow trucks to drive straight through

The North American Industry Classification System (NAICS) Code that applies to this facility is '484110 - General freight trucking, local'. The facility would not be subject to an Environmental Compliance Approval (ECA) or Environmental Activity and Sector Registry (EASR).

The facility operates during the following time periods:

- 5:00 AM to 12:00 AM – Truck movement in and out of the facility
- 7:00 AM to 6:00 PM – Maintenance activities (inside building)

For the purposes of this assessment, it is assumed the facility potentially operates 7 days per week. Some of the operations at the facility do not operate over the weekend and are curtailed during the night-time hours and is further described in Section 3, Noise Source Summary.

Refer to Appendix C for site plans for the facility.

3 Noise Source Summary

NAPSCI established noise sources for the proposed facility based on meetings with the owners and in review of the design and intention of the operation.

Sources of noise that were deemed to be tonal in character (emitting a hum, whine, buzz) were penalized 5 dBA per MECP Publication NPC-104. Noise generating equipment operates either continuously or intermittently depending on process requirements. As a worst-case scenario, most equipment was assumed to operate continuously and simultaneously. Refer to Table B1, Appendix B for worst-case operating times of individual equipment.

Table 1 (attached at end of text) presents a summary of noise sources identified at the site that have a significant impact on sensitive points of reception. Source locations are shown in Appendix C.

3.1.1 Intake and Exhaust Sources

Two (2) washroom general exhaust fans were positioned on the facility roof to account for potential washroom ventilation. Sound levels were estimated based on our experience with similar fan sources at other facilities.

3.1.2 Ventilation Sources

One (1) HVAC unit was positioned on the facility rooftop. Sound levels were estimated based on our experience with similar HVAC sources at other facilities.

3.1.3 Maintenance Bay Doors

In total four (4) maintenance bay doors will be incorporated into the facility. Two (2) entry bay doors will be on the north building façade and two (2) exit bay doors on the south façade. Sound levels were referenced from comparable measurements collected from another facility having truck maintenance and were modelled as quasi-steady noise sources, penalized by 10 dB per Ministry guidelines for quasi-steady sources. It is assumed that maintenance bay noise would occur for 5 minutes in the hour only during the daytime which accounts for activities using a pneumatically powered equipment.

3.1.4 Vehicle Sources

Vehicle noise from trucks consists of the following:

- Truck movement onsite, which includes
    - Trucks accessing the site
    - Trucks exiting the site
    - Truck pathways leading to and exiting the maintenance bays
    - Truck pathways leading to and leaving the trailer parking areas
- Truck idling – 15 minutes daytime and evening; 5 minutes at nighttime
- Truck coupling and decoupling of trailers

It should be noted there is no trailer loading and unloading from the site. However, a forklift is available to assist with re-positioning or adjusting loads in a trailer (if needed).

Forklift noise includes travel noise from the pathways in the vicinity of the trailers and was referenced from measurements collected from forklifts at other facilities.

3.2 Insignificant Sources

All noise sources were considered significant as a conservative approach to the assessment.

3.3 Impulse Sources – Truck Coupling

One (1) impulse noise source was identified on-site, and related to the truck coupling and decoupling activities.

3.4 Noise Controls – Noise Barrier (Fence)

There is an existing solid wood fence that runs along the east side of the property. The fence measures approximately 2 m in height, does not have gaps or openings, and functions as an existing noise barrier for a portion of the site. The noise barrier was constructed by others to shield an existing truck stop operation from existing residences in the area. Refer to Figure C2, Appendix C for the location of this barrier.

The facility will construct a 2.4 m-high solid wood fence to provide visual and acoustic barrier between the facility and the residential properties to the south. The fence will be approximately 28 m long along the northern part of the west property boundary of POR1, approximately 85 m long along the northern property boundaries of POR1, POR2 and POR3, and approximately 36 m long along the northern part of the west property boundary of POR4. Refer to Figure C3 for the location of this solid wood barrier fence. As the construction details of this fence are not known, this barrier was conservatively not included in the model.

4 Point of Reception Noise Impact Analysis

4.1 Points of Reception List & Description

Seven (7) sensitive points of reception (POR) were identified as the basis for the acoustic assessment. All PORS were two-storey residences, with the exception of POR1, which is a single storey trailer. Refer to Appendix C for POR locations.

Point of Reception 1 (POR1):

POR1 was placed at a one-storey residence located immediately southeast of the facility, on the north side of the Third Line East roadway. Two (2) receptor points were placed in the model as follows:

- POR1a was assessed in the model in the yard of the residence at a height of 1.5 m above grade to represent an outdoor living area (30 m from residence façade).
- POR1b was assessed in the model at the façade of the residence at a height of 1.5 m above grade to represent an open first floor window.

Ground cover between the facility and the receptors will consist of a mix of on-site road, grass and vegetated area.

Point of Reception 2 (POR2) to Point of Reception 5 (POR5):

POR2 to POR5 were placed at the two-storey residences located just east of POR1 and situated south to southeast of the facility. These residences are along the north side of the Third Line East roadway. The receptor points were placed as follows:

- POR2a – POR5a were assessed in the model in the yard of the residence at a height of 1.5 m above grade to represent an outdoor living area.
- POR2b – POR5b were assessed in the model at the façade of the residence at a height of 4.5 m above grade to represent an open second floor window.

Ground cover between the facility and the receptors will consist of a mix of on-site road, grass and vegetated area.

Point of Reception 6 (POR6):

POR6 was placed at a two-storey residence located approximately 500 m west of the facility, on the north side of the Third Line East roadway. Two (2) receptor points were placed in the model as follows:

- POR6a was assessed in the model in the yard of the residence at a height of 1.5 m above grade to represent an outdoor living area.
- POR6b was assessed in the model at the façade of the residence at a height of 4.5 m above grade to represent an open second floor window.

Ground cover between the facility and the receptor is varied due to the distance from the facility.

Point of Reception 7 (POR7):

POR7 was placed at a two-storey residence located approximately 300 m east of the facility, on the east side of the Trans-Canada Highway. Two (2) receptor points were placed in the model as follows:

- POR7a was assessed in the model in the yard of the residence at a height of 1.5 m above grade to represent an outdoor living area.
- POR7b was assessed in the model at the façade of the residence at a height of 4.5 m above grade to represent an open second floor window.

Ground cover between the facility and the receptor is varied due to the distance from the facility.

4.2 Land-Use Zoning Plan

The facility is proposed on land that is currently zoned 'RA – Rural Area' and is subject to zoning by-law amendment for this land-use. Land located immediately north, and northeast is zoned 'M2 – Medium Industrial'.

POR1 to POR5 are located on land zoned 'R1 – Estate Residential' and are all located to the east of the site. POR6 is located on land zoned 'RA – Rural Area' and POR7 is located on land zoned 'HZ – Highway Zone'.

Refer to Figure C5, Appendix C for a zoning map and land-use designation key.

4.3 Scaled Area Location Plan

Refer to Appendix C for a scaled area plan identifying the location of the facility as well as the locations of the identified sensitive receptors in relation to the facility. The area plan with the aerial photograph was generated with Google Maps.

4.4 Procedure used to Assess Noise Impacts at Each Receptor

Measured sound pressure levels, or sound power levels based on manufacturer data or accepted estimation techniques were used as input to the acoustic computer model Cadna-A (Computer Aided Noise Abatement, Version 4.4). 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 B for calculations and Cadna-A model set-up data and output data.

4.5 List of Parameters/Assumptions Used in Calculations & Model

The following assumptions were used in the calculations:

- All noise sources operational.
- Tonal sources were increased 5 dBA per NPC-104 (where applicable).
- Quasi-steady sources were increased by 10 dBA per NPC-104 (where applicable).
- Sources were adjusted for intermittence per NPC-104 (where applicable).
- Vehicle traffic modelled using a moving point source in the Cadna-A software (not STAMSON) since infrequent movements.
- Lateral diffraction and second order reflection included in the model.
- Ground absorption set to 0.0 for reflective ground surfaces and 1.0 for absorptive ground surfaces.
- Model set to no subtraction of negative ground attenuation.
- Model set to no negative path difference.
- 2.0 m existing barrier fence placed along east property line of facility, north property line of POR4 & POR5 and east property line of POR5.

4.6 Point of Reception Noise Impact Summary

Table 2 (attached at end of text) summarizes the noise impact of the facility at the identified sensitive receptors. 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 Cadna-A computer model output.

Refer to Figures 1, 2 and 3 (attached at end of text) for contour plots generated by the Cadna-A acoustic software. These figures illustrate the sound levels generated by the facility's existing stationary noise sources during the worst-case day, evening and night operating scenarios. Figure 4 illustrates the sound levels generated by the facility's impulse source.

5 Acoustic Assessment Summary

5.1 Rationale for Selecting Applicable Noise Limits

Sensitive receptors located near the facility are located in a "Class 1" Area, which is defined per NPC-300 as "an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum."

NPC-300 specifies that the noise limit criteria at sensitive points of reception due to the operation of stationary sources are the greater of the following:

1. Exclusionary minima values specified in the applicable MECP NPC documents; or
2. The lowest energy-equivalent one-hour background sound level (L_{eq}) occurring at the sensitive point of reception occurring at the same time of day that the equipment is operating.

Although background noise in the area near the receptors is heavily influenced by human activity, the MECP minima noise limits were used as a conservative assessment approach. Table 3 summarizes noise limits used in this assessment at the identified points of reception for stationary sources of noise.

Table 3: Summary of Noise Criteria – Stationary Noise Sources

	Day (0700 to 1900) Criteria (dBA)			Evening (1900 to 2300) Criteria (dBA)			Night (2300 to 0700) Criteria (dBA)		
POR	MECP Exclusionary Limit	Minimum Background Level	*Criteria Used in Assessment*	MECP Exclusionary Limit	Minimum Background Level	*Criteria Used in Assessment*	MECP Exclusionary Limit	Minimum Background Level	*Criteria Used in Assessment*
1a	50	--	***50***	50	--	***50***	--	--	***--***
1b	50	--	***50***	50	--	***50***	45	--	***45***
2a	50	--	***50***	50	--	***50***	--	--	***--***
2b	50	--	***50***	50	--	***50***	45	--	***45***
3a	50	--	***50***	50	--	***50***	--	--	***--***
3b	50	--	***50***	50	--	***50***	45	--	***45***
4a	50	--	***50***	50	--	***50***	--	--	***--***
4b	50	--	***50***	50	--	***50***	45	--	***45***
5a	50	--	***50***	50	--	***50***	--	--	***--***
5b	50	--	***50***	50	--	***50***	45	--	***45***
6a	50	--	***50***	50	--	***50***	--	--	***--***
6b	50	--	***50***	50	--	***50***	45	--	***45***
7a	50	--	***50***	50	--	***50***	--	--	***--***
7b	50	--	***50***	50	--	***50***	45	--	***45***

Regarding impulse noise generated on-site, there are 2 impulses in the day and evening from truck coupling and one impulse at night. The applicable impulse sound level limits are summarized in Table 4.

Table 4: Summary of Noise Criteria – Impulse Noise Sources

	Day (0700 to 1900) Criteria (dBAI) 2 impulses			Evening (1900 to 2300) Criteria (dBAI) 2 impulses			Night (2300 to 0700) Criteria (dBAI) 1 impulse		
POR	MECP Exclusionary Limit	Minimum Background Level	*Criteria Used in Assessment*	MECP Exclusionary Limit	Minimum Background Level	*Criteria Used in Assessment*	MECP Exclusionary Limit	Minimum Background Level	*Criteria Used in Assessment*
1a	75	--	***75***	75	--	***75***	--	--	**--**
1b	75	--	***75***	75	--	***75***	75	--	***75***
2a	75	--	***75***	75	--	***75***	--	--	**--**
2b	75	--	***75***	75	--	***75***	75	--	***75***
3a	75	--	***75***	75	--	***75***	--	--	**--**
3b	75	--	***75***	75	--	***75***	75	--	***75***
4a	75	--	***75***	75	--	***75***	--	--	**--**
4b	75	--	***75***	75	--	***75***	75	--	***75***
5a	75	--	***75***	75	--	***75***	--	--	**--**
5b	75	--	***75***	75	--	***75***	75	--	***75***
6a	75	--	***75***	75	--	***75***	--	--	**--**
6b	75	--	***75***	75	--	***75***	75	--	***75***
7a	75	--	***75***	75	--	***75***	--	--	**--**
7b	75	--	***75***	75	--	***75***	75	--	***75***

5.2 Predictable Worst-Case Impact Operating Scenarios

The facility operates day, evening, and through parts of the night. Worst-case operating scenarios were assessed as follows:

<u>Stationary Noise Sources</u>

- Source 1: Rooftop HVAC
  - 60 minutes per hour day and evening
  - 45 minutes per hour at night
- Source 2-3: Bathroom exhausts
  - 60 minutes per hour, day/evening/night
- Source 4-7: Maintenance Bay Door
  - 5 minutes per hour, day only
  - Penalized by 10 dBA, for quasi-steady noise type
- Source 8: Truck movement to parking area
  - 2 passes per hour, day and evening

  - 1 pass, night
- Source 9a: Truck movement to maintenance bay (entering)
  - 1 per hour (day only)
- Source 9b: Truck movement from maintenance bay (leaving)
  - 1 per hour (day only)
- Source 10: Truck Idling
  - 15 minutes per hour, day/evening
  - 5 minutes per hour, night
- Source 11: Forklift movement
  - 2 passes, day only

Impulse Sources

- Source 12 – Truck Coupling and Decoupling
  - 2 times per hour, day and evening
  - 1 time per hour, night

The operating scenarios examined in this report are conservatively based on all potential equipment operating under full load conditions during the specified time periods. These conservative operating scenarios will yield the maximum noise impacts at the sensitive receptors. Actual noise impacts are expected to be below this theoretical maximum.

5.3 Acoustic Assessment Summary

Table 5 provides a summary of the noise impacts at the identified sensitive points of reception for worst-case day operating scenario from stationary non-impulsive noise sources at the facility:

Table 5: Acoustic Assessment Summary Table (Stationary Sources)

Point of Reception	Description of Reception Point	Facility Leq (dBA)	Class 1 Performance Limit (dBA)	Compliance with Performance Limit
Day (0700 h to 1900 h)				
POR1a	Residence Yard (@ 1.5 m)	49	50	Yes
POR1b	Residence Window (@ 1.5 m)	47	50	Yes
POR2a	Residence Yard (@ 1.5 m)	48	50	Yes
POR2b	Residence Window (@ 4.5 m)	48	50	Yes
POR3a	Residence Yard (@ 1.5 m)	46	50	Yes
POR3b	Residence Window (@ 4.5 m)	47	50	Yes
POR4a	Residence Yard (@ 1.5 m)	48	50	Yes
POR4b	Residence Window (@ 4.5 m)	47	50	Yes

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POR5a	Residence Yard (@ 1.5 m)	42	50	Yes
POR5b	Residence Window (@ 4.5 m)	44	50	Yes
POR6a	Residence Yard (@ 1.5 m)	29	50	Yes
POR6b	Residence Window (@ 4.5 m)	31	50	Yes
POR7a	Residence Yard (@ 1.5 m)	36	50	Yes
POR7b	Residence Window (@ 4.5 m)	37	50	Yes
Evening (1900 h to 2300 h)				
POR1a	Residence Yard (@ 1.5 m)	47	50	Yes
POR1b	Residence Window (@ 1.5 m)	45	50	Yes
POR2a	Residence Yard (@ 1.5 m)	47	50	Yes
POR2b	Residence Window (@ 4.5 m)	46	50	Yes
POR3a	Residence Yard (@ 1.5 m)	45	50	Yes
POR3b	Residence Window (@ 4.5 m)	45	50	Yes
POR4a	Residence Yard (@ 1.5 m)	46	50	Yes
POR4b	Residence Window (@ 4.5 m)	45	50	Yes
POR5a	Residence Yard (@ 1.5 m)	40	50	Yes
POR5b	Residence Window (@ 4.5 m)	43	50	Yes
POR6a	Residence Yard (@ 1.5 m)	27	50	Yes
POR6b	Residence Window (@ 4.5 m)	29	50	Yes
POR7a	Residence Yard (@ 1.5 m)	34	50	Yes
POR7b	Residence Window (@ 4.5 m)	36	50	Yes
Night (2300 h to 0700 h)				
POR1a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR1b	Residence Window (@ 1.5 m)	42	45	Yes
POR2a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR2b	Residence Window (@ 4.5 m)	43	45	Yes
POR3a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR3b	Residence Window (@ 4.5 m)	42	45	Yes
POR4a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR4b	Residence Window (@ 4.5 m)	43	45	Yes
POR5a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR5b	Residence Window (@ 4.5 m)	40	45	Yes
POR6a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR6b	Residence Window (@ 4.5 m)	27	45	Yes
POR7a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR7b	Residence Window (@ 4.5 m)	33	45	Yes

Table 6 provides a summary of the noise impacts at the identified sensitive points of reception for worst-case day, evening and night operating scenarios from impulsive noise sources at the facility:

Table 6: Acoustic Assessment Summary Table – Impulsive Source

Point of Reception	Description of Reception Point	Facility Leq (dBA)	Class 1 Performance Limit (dBA)	Compliance with Performance Limit
Day (0700 h to 1900 h)				
POR1a	Residence Yard (@ 1.5 m)	67	75	Yes
POR1b	Residence Window (@ 1.5 m)	63	75	Yes
POR2a	Residence Yard (@ 1.5 m)	68	75	Yes
POR2b	Residence Window (@ 4.5 m)	68	75	Yes
POR3a	Residence Yard (@ 1.5 m)	68	75	Yes
POR3b	Residence Window (@ 4.5 m)	68	75	Yes
POR4a	Residence Yard (@ 1.5 m)	70	75	Yes
POR4b	Residence Window (@ 4.5 m)	70	75	Yes
POR5a	Residence Yard (@ 1.5 m)	62	75	Yes
POR5b	Residence Window (@ 4.5 m)	67	75	Yes
POR6a	Residence Yard (@ 1.5 m)	46	75	Yes
POR6b	Residence Window (@ 4.5 m)	48	75	Yes
POR7a	Residence Yard (@ 1.5 m)	51	75	Yes
POR7b	Residence Window (@ 4.5 m)	55	75	Yes
Evening (1900 h to 2300 h)				
POR1a	Residence Yard (@ 1.5 m)	67	75	Yes
POR1b	Residence Window (@ 1.5 m)	63	75	Yes
POR2a	Residence Yard (@ 1.5 m)	68	75	Yes
POR2b	Residence Window (@ 4.5 m)	68	75	Yes
POR3a	Residence Yard (@ 1.5 m)	68	75	Yes
POR3b	Residence Window (@ 4.5 m)	68	75	Yes
POR4a	Residence Yard (@ 1.5 m)	70	75	Yes
POR4b	Residence Window (@ 4.5 m)	70	75	Yes
POR5a	Residence Yard (@ 1.5 m)	62	75	Yes
POR5b	Residence Window (@ 4.5 m)	67	75	Yes
POR6a	Residence Yard (@ 1.5 m)	46	75	Yes
POR6b	Residence Window (@ 4.5 m)	48	75	Yes
POR7a	Residence Yard (@ 1.5 m)	51	75	Yes
POR7b	Residence Window (@ 4.5 m)	55	75	Yes

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Night (2300 h to 0700 h)				
POR1a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR1b	Residence Window (@ 1.5 m)	63	75	Yes
POR2a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR2b	Residence Window (@ 4.5 m)	68	75	Yes
POR3a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR3b	Residence Window (@ 4.5 m)	68	75	Yes
POR4a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR4b	Residence Window (@ 4.5 m)	70	75	Yes
POR5a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR5b	Residence Window (@ 4.5 m)	67	75	Yes
POR6a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR6b	Residence Window (@ 4.5 m)	48	75	Yes
POR7a	Residence Yard (@ 1.5 m)	n/a	n/a	Yes
POR7b	Residence Window (@ 4.5 m)	55	75	Yes

6 Conclusions

Based on the results of the acoustic assessment, it can be concluded that the noise impacts at the sensitive points of reception from both stationary and impulsive noise sources meet the applicable Ontario MECP noise criteria, as defined by NPC-300, during the worst-case operating scenario.

The operating scenarios examined in this report are conservatively based on all potential equipment operating under full load conditions during the specified time periods. These conservative operating scenarios will yield the maximum noise impacts at the sensitive receptors. Actual noise impacts are expected to be below this theoretical maximum.

Additional noise mitigating measures are not required for the site. Based on a review of process operations, a vibration assessment is not warranted.

We trust the above is satisfactory. If you have any questions or comments, please do not hesitate to contact Northern Applied Sciences Inc. at your convenience.

Yours Truly,

Northern Applied Sciences Inc.

Stephen Kuchma P.Eng
Principal

Chris Scullion, B.E.Sc. (Civil Engineering)
Principal

Table 1: Noise Source Summary

Source ID	Description	Sound Power Level (A) (dBA)	Data Source (B)	Quantity	Source Location	Sound Characteristics	Noise Control Measures
1	Roof-top HVAC	88.9	Estimated 1a	1	Outside	Steady	Uncontrolled
2	Roof-top Washroom Exhaust Fan	82.1	Estimated 1b	1	Outside	Steady	Uncontrolled
3	Roof-top Washroom Exhaust Fan	82.1	Estimated 1b	1	Outside	Steady	Uncontrolled
4	Maintenace Bay #1 North Door (Open)	88.1	Estimated 1c	1	Outside	Quasi-Steady	Uncontrolled
5	Maintenace Bay #1 South Door (Open)	88.1	Estimated 1c	1	Outside	Quasi-Steady	Uncontrolled
6	Maintenace Bay #2 North Door (Open)	88.1	Estimated 1c	1	Outside	Quasi-Steady	Uncontrolled
7	Maintenace Bay #2 South Door (Open)	88.1	Estimated 1c	1	Outside	Quasi-Steady	Uncontrolled
8	Truck Movement 1	106.2	Estimated 1d	1	Outside	Intermittent	Uncontrolled
9a	Truck Movement 2 - Before Bldg	106.2	Estimated 1d	1	Outside	Intermittent	Uncontrolled
9b	Truck Movement 2 - After Bldg	106.2	Estimated 1d	1	Outside	Intermittent	Uncontrolled
10	Truck Idling	88.6	Estimated 1c	1	Outside	Intermittent	Uncontrolled
11	Forklift Movement	87.6	Estimated 1c	1	Outside	Intermittent	Uncontrolled
12	Truck Coupling/Decoupling	119.0	Estimated 1c	1	Outside	Impulse	Uncontrolled

Notes:
(A): Sound Power Level shown does not include adjustments for tonality, quasi-steady state or intermittence.
(B): Source Data - described below
1a: Estimated based on physial characteristics of source (based on assumed size of unit that would be installed). Refer to Table B2, App. B for calculation estimate.
1b: Estimated with manufacturer sound performance data for typical exhaust fan. Refer to Table B2, App. B for calculation estimate.
1c: Data taken from database of similar measured source at different facility.
1d: Estimated using FHWA. Refer to Table B3, App. B for calculation estimate.

Table 2: Point of Reception Noise Impact Summary (Steady Noise Sources)

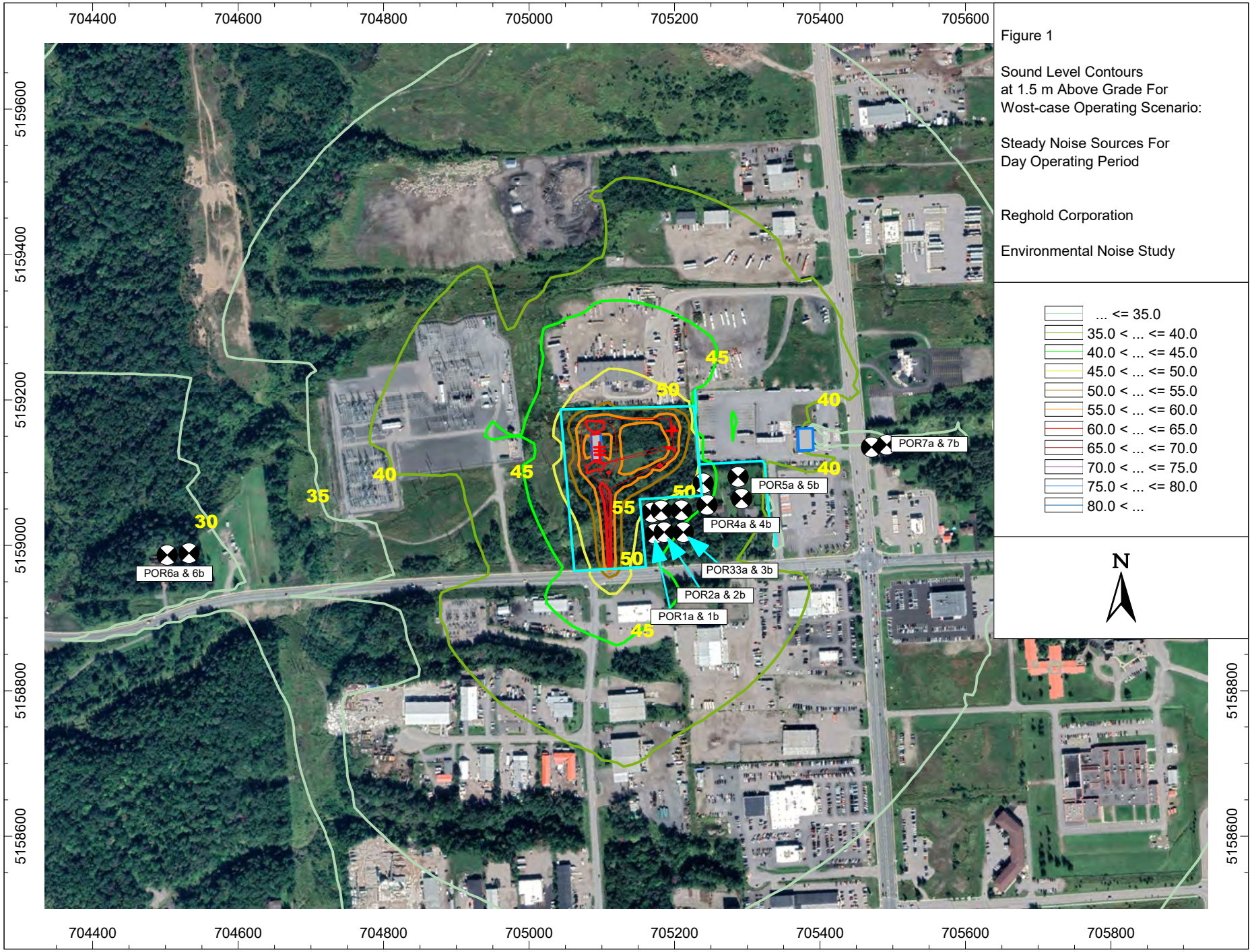
Source ID	Description	Point of Reception 1a			Point of Reception 1b				Point of Reception 2a			Point of Reception 2b				Point of Reception 3a			Point of Reception 3b				Point of Reception 4a			Point of Reception 4b			
		Distance	Leq Day	Leq Evening	Distance	Leq Day	Leq Evening	Leq Night	Distance	Leq Day	Leq Evening	Distance	Leq Day	Leq Evening	Leq Night	Distance	Leq Day	Leq Evening	Distance	Leq Day	Leq Evening	Leq Night	Distance	Leq Day	Leq Evening	Distance	Leq Day	Leq Evening	Leq Night
		m	dBA	dBA	m	dBA	dBA	dBA	m	dBA	dBA	m	dBA	dBA	dBA	m	dBA	dBA	m	dBA	dBA	dBA	m	dBA	dBA	m	dBA	dBA	dBA
1	Roof-top HVAC	115	36.1	36.1	141	33.1	33.1	31.9	121	35.6	35.6	147	35.2	35.2	34.0	142	33.5	33.5	164	34.1	34.1	32.8	151	35.2	35.2	168	34.6	34.6	33.3
2	Roof-top Washroom Exhaust Fan	111	28.0	28.0	137	24.2	24.2	24.2	118	27.6	27.6	143	29.2	29.2	29.2	139	24.4	24.4	160	28.1	28.1	28.1	149	28.2	28.2	165	28.5	28.5	28.5
3	Roof-top Washroom Exhaust Fan	107	28.2	28.2	133	24.6	24.6	24.6	114	27.4	27.4	139	29.5	29.5	29.5	136	24.5	24.5	157	28.3	28.3	28.3	147	28.3	28.3	163	28.6	28.6	28.6
4	Maintenace Bay #1 North Door (Open)	124	15.5	0.0	152	12.9	0.0	0.0	130	15.5	0.0	156	14.3	0.0	0.0	149	14.7	0.0	172	13.9	0.0	0.0	154	18.7	0.0	173	16.2	0.0	0.0
5	Maintenace Bay #1 South Door (Open)	94	38.2	0.0	119	35.6	0.0	0.0	102	37.5	0.0	126	36.3	0.0	0.0	125	35.5	0.0	145	35.0	0.0	0.0	140	36.5	0.0	154	35.1	0.0	0.0
6	Maintenace Bay #2 North Door (Open)	121	18.6	0.0	148	15.6	0.0	0.0	125	18.9	0.0	153	17.5	0.0	0.0	144	18.2	0.0	168	17.4	0.0	0.0	147	22.8	0.0	167	20.2	0.0	0.0
7	Maintenace Bay #2 South Door (Open)	90	38.6	0.0	115	35.8	0.0	0.0	97	37.9	0.0	121	36.7	0.0	0.0	119	35.9	0.0	140	35.3	0.0	0.0	134	36.9	0.0	148	35.4	0.0	0.0
8	Truck Movement 1	55	46.5	46.5	61	44.5	44.5	41.5	57	45.9	45.9	73	45.5	45.5	42.5	68	44.1	44.1	97	44.1	44.1	41.1	55	45.5	45.5	80	44.4	44.4	41.4
9a	Truck Movement 2 - Before Bldg	53	39.2	-60.8	63	37.8	-62.2	-62.2	57	38.1	-61.9	76	38.6	-61.4	-61.4	68	35.9	-64.1	97	36.8	-63.2	-63.2	56	36.5	-63.5	80	36.1	-63.9	-63.9
9b	Truck Movement 2 - After Bldg	55	37.4	-62.6	66	36.7	-63.3	-63.3	58	36.0	-64.0	78	37.1	-62.9	-62.9	73	33.4	-66.6	103	34.8	-65.2	-65.2	55	33.0	-67.0	82	32.9	-67.1	-67.1
10	Truck Idling	116	31.0	31.0	144	28.3	28.3	23.5	111	31.6	31.6	140	30.3	30.3	25.6	110	31.5	31.5	140	30.3	30.3	25.5	84	33.9	33.9	113	32.2	32.2	27.4
11	Forklift Movement	79	26.0	-77.1	109	22.8	-80.3	-80.3	80	26.0	-77.0	109	24.0	-79.0	-79.0	84	24.9	-78.1	114	23.3	-79.7	-79.7	63	26.7	-76.3	90	24.7	-78.3	-78.3
Total Sound Pressure Level at POR [dBA]			49	47		47	45	42		48	47		48	46	43		46	45		47	45	42		48	46		47	45	43
MECP Criterion [dBA]			50	50		50	50	45		50	50		50	50	45		50	50		50	50	45		50	50		50	50	45
Excess [dBA]			**-1**	**-3**		**-3**	**-5**	**-3**		**-2**	**-3**		**-2**	**-4**	**-2**		**-4**	**-5**		**-3**	**-5**	**-3**		**-2**	**-4**		**-3**	**-5**	**-2**

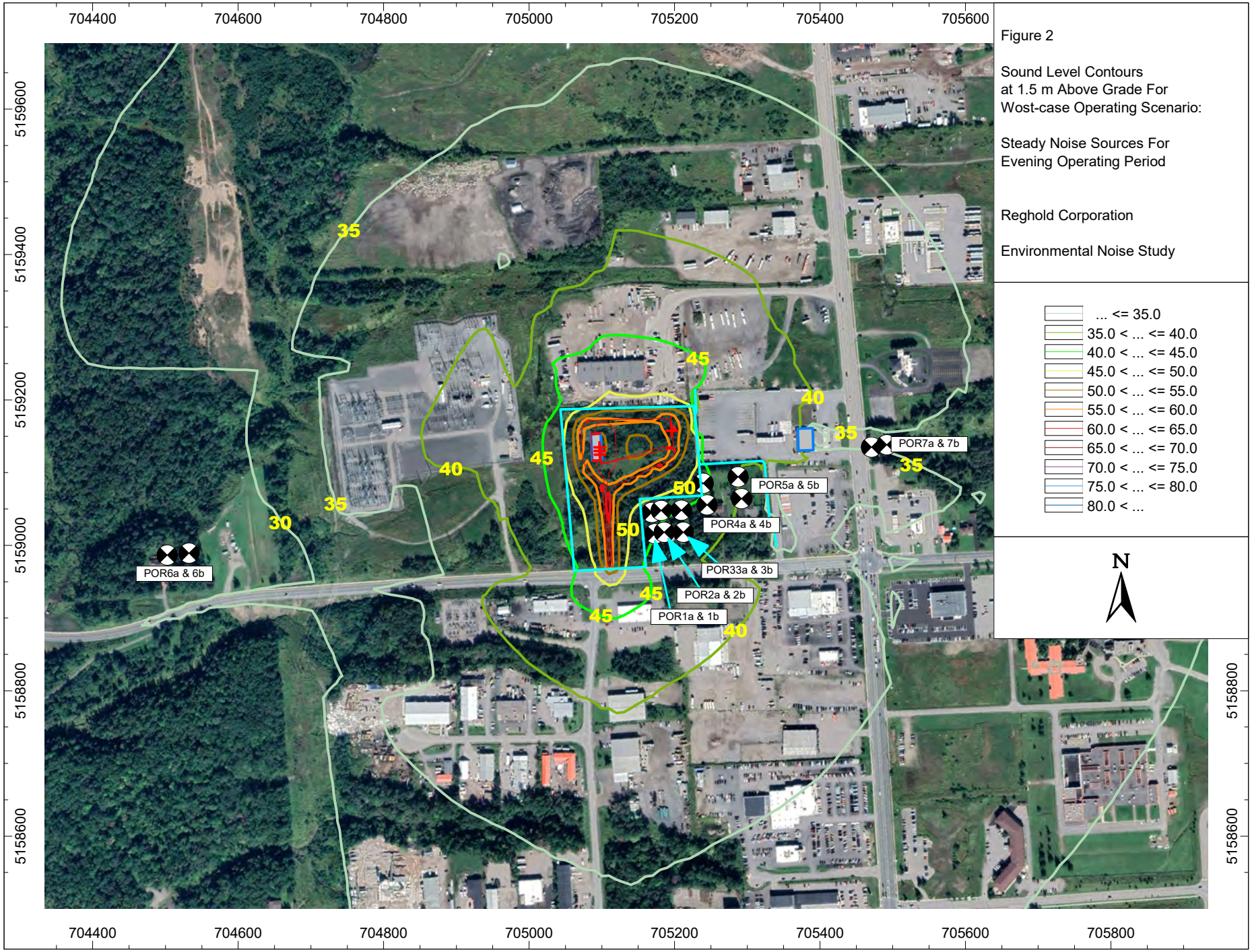
Source ID	Description	Point of Reception 5a			Point of Reception 5b				Point of Reception 6a			Point of Reception 6b				Point of Reception 7a			Point of Reception 7b			
		Distance	Leq Day	Leq Evening	Distance	Leq Day	Leq Evening	Leq Night	Distance	Leq Day	Leq Evening	Distance	Leq Day	Leq Evening	Leq Night	Distance	Leq Day	Leq Evening	Distance	Leq Day	Leq Evening	Leq Night
		m	dBA	dBA	m	dBA	dBA	dBA	m	dBA	dBA	m	dBA	dBA	dBA	m	dBA	dBA	m	dBA	dBA	dBA
1	Roof-top HVAC	195	30.2	30.2	208	32.1	32.1	30.9	583	18.6	18.6	613	20.2	20.2	19.0	374	23.2	23.2	395	27.2	27.2	25.9
2	Roof-top Washroom Exhaust Fan	194	21.2	21.2	206	26.2	26.2	26.2	582	10.5	10.5	612	15.0	15.0	15.0	374	17.8	17.8	395	21.4	21.4	21.4
3	Roof-top Washroom Exhaust Fan	193	21.2	21.2	204	26.3	26.3	26.3	581	10.5	10.5	611	15.0	15.0	15.0	373	18.5	18.5	395	21.4	21.4	21.4
4	Maintenace Bay #1 North Door (Open)	196	16.5	0.0	211	15.8	0.0	0.0	589	10.9	0.0	618	12.4	0.0	0.0	372	4.9	0.0	393	7.1	0.0	0.0
5	Maintenace Bay #1 South Door (Open)	187	32.2	0.0	196	32.8	0.0	0.0	582	19.1	0.0	612	20.1	0.0	0.0	370	24.9	0.0	392	25.2	0.0	0.0
6	Maintenace Bay #2 North Door (Open)	189	20.5	0.0	204	19.8	0.0	0.0	596	7.5	0.0	625	9.3	0.0	0.0	365	5.1	0.0	386	8.1	0.0	0.0
7	Maintenace Bay #2 South Door (Open)	180	32.5	0.0	190	33.1	0.0	0.0	589	19.1	0.0	618	20.1	0.0	0.0	363	25.1	0.0	385	25.3	0.0	0.0
8	Truck Movement 1	96	39.2	39.2	111	41.6	41.6	38.6	580	26.0	26.0	610	27.9	27.9	24.9	276	33.5	33.5	298	34.4	34.4	31.4
9a	Truck Movement 2 - Before Bldg	97	31.6	-68.4	112	33.6	-66.4	-66.4	578	18.1	-81.9	608	20.0	-80.0	-80.0	271	25.9	-74.1	292	27.0	-73.0	-73.0
9b	Truck Movement 2 - After Bldg	92	28.6	-71.4	110	30.2	-69.8	-69.8	576	16.4	-83.6	606	18.1	-81.9	-81.9	271	23.5	-76.5	292	24.8	-75.2	-75.2
10	Truck Idling	111	27.3	27.3	134	29.7	29.7	24.9	685	8.5	8.5	714	9.1	9.1	4.3	275	18.7	18.7	296	19.5	19.5	14.7
11	Forklift Movement	97	20.1	-82.9	116	21.7	-81.3	-81.3	579	5.4	0.0	608	6.7	0.0	0.0	273	11.4	0.0	294	12.7	0.0	0.0
Total Sound Pressure Level at POR [dBA]			42	40		44	43	40		29	27		31	29	27		36	34		37	36	33
MECP Criterion [dBA]			50	50		50	50	45		50	50		50	50	45		50	50		50	50	45
Excess [dBA]			**-8**	**-10**		**-6**	**-7**	**-5**		**-21**	**-23**		**-19**	**-21**	**-18**		**-14**	**-16**		**-13**	**-14**	**-12**

Table 2: Point of Reception Noise Impact Summary (Impulse Noise Source)

Source ID	Description	Point of Reception 1a			Point of Reception 1b				Point of Reception 2a			Point of Reception 2b				Point of Reception 3a			Point of Reception 3b				Point of Reception 4a			Point of Reception 4b			
		Distance	L_{LM} Day	L_{LM} Evening	Distance	L_{LM} Day	L_{LM} Evening	L_{LM} Night	Distance	L_{LM} Day	L_{LM} Evening	Distance	L_{LM} Day	L_{LM} Evening	L_{LM} Night	Distance	L_{LM} Day	L_{LM} Evening	Distance	L_{LM} Day	L_{LM} Evening	L_{LM} Night	Distance	L_{LM} Day	L_{LM} Evening	Distance	L_{LM} Day	L_{LM} Evening	L_{LM} Night
		m	dBAI	dBAI	m	dBAI	dBAI	dBAI	m	dBAI	dBAI	m	dBAI	dBAI	dBAI	m	dBAI	dBAI	m	dBAI	dBAI	dBAI	m	dBAI	dBAI	m	dBAI	dBAI	dBAI
12	Truck Coupling/Decoupling	110	67.0	67.0	137	62.8	62.8	62.8	104	67.7	67.7	134	67.6	67.6	67.6	104	67.5	67.5	134	67.5	67.5	67.5	79	69.5	69.5	107	69.6	69.6	69.6
Total Sound Pressure Level at POR [dBAI]			67	67		63	63	63		68	68		68	68	68		68	68		68	68	68		70	70		70	70	70
MECP Criterion [dBAI]			75	75		75	75	75		75	75		75	75	75		75	75		75	75	75		75	75		75	75	75
Excess [dBAI]			**-8**	**-8**		**-12**	**-12**	**-12**		**-7**	**-7**		**-7**	**-7**	**-7**		**-8**	**-8**		**-7**	**-7**	**-7**		**-6**	**-6**		**-5**	**-5**	**-5**

Source ID	Description	Point of Reception 5a			Point of Reception 5b				Point of Reception 6a			Point of Reception 6b				Point of Reception 7a			Point of Reception 7b			
		Distance	L_{LM} Day	L_{LM} Evening	Distance	L_{LM} Day	L_{LM} Evening	L_{LM} Night	Distance	L_{LM} Day	L_{LM} Evening	Distance	L_{LM} Day	L_{LM} Evening	L_{LM} Night	Distance	L_{LM} Day	L_{LM} Evening	Distance	L_{LM} Day	L_{LM} Evening	L_{LM} Night
		m	dBAI	dBAI	m	dBAI	dBAI	dBAI	m	dBAI	dBAI	m	dBAI	dBAI	dBAI	m	dBAI	dBAI	m	dBAI	dBAI	dBAI
12	Truck Coupling/Decoupling	107	62.1	62.1	129	67.4	67.4	67.4	684	45.5	45.5	713	47.7	47.7	47.7	275	51.0	51.0	296	54.6	54.6	54.6
Total Sound Pressure Level at POR [dBAI]			62	62		67	67	67		46	46		48	48	48		51	51		55	55	55
MECP Criterion [dBAI]			75	75		75	75	75		75	75		75	75	75		75	75		75	75	75
Excess [dBAI]			**-13**	**-13**		**-8**	**-8**	**-8**		**-30**	**-30**		**-27**	**-27**	**-27**		**-24**	**-24**		**-20**	**-20**	**-20**


704400
704600
704800
705000
705200
705400
705600
705800
5159600
5159400
5159200
5159000
5158800
5158600
Figure 1
Sound Level Contours
at 1.5 m Above Grade For
Wost-case Operating Scenario:
Steady Noise Sources For
Day Operating Period
Reghold Corporation
Environmental Noise Study
... <= 35.0
35.0 < ... <= 40.0
40.0 < ... <= 45.0
45.0 < ... <= 50.0
50.0 < ... <= 55.0
55.0 < ... <= 60.0
60.0 < ... <= 65.0
65.0 < ... <= 70.0
70.0 < ... <= 75.0
75.0 < ... <= 80.0
80.0 < ...
N
POR6a & 6b
POR7a & 7b
POR5a & 5b
POR4a & 4b
POR33a & 3b
POR2a & 2b
POR1a & 1b
30
35
40
45
50
55
60
40
45
50
40
45


704400
704600
704800
705000
705200
705400
705600
705800
5159600
5159400
5159200
5159000
5158800
5158600
35
40
45
50
30
POR6a & 6b
POR5a & 5b
POR4a & 4b
POR33a & 3b
POR2a & 2b
POR1a & 1b
POR7a & 7b
Figure 2
Sound Level Contours
at 1.5 m Above Grade For
Wost-case Operating Scenario:
Steady Noise Sources For
Evening Operating Period
Reghold Corporation
Environmental Noise Study
... <= 35.0
35.0 < ... <= 40.0
40.0 < ... <= 45.0
45.0 < ... <= 50.0
50.0 < ... <= 55.0
55.0 < ... <= 60.0
60.0 < ... <= 65.0
65.0 < ... <= 70.0
70.0 < ... <= 75.0
75.0 < ... <= 80.0
80.0 < ...
N

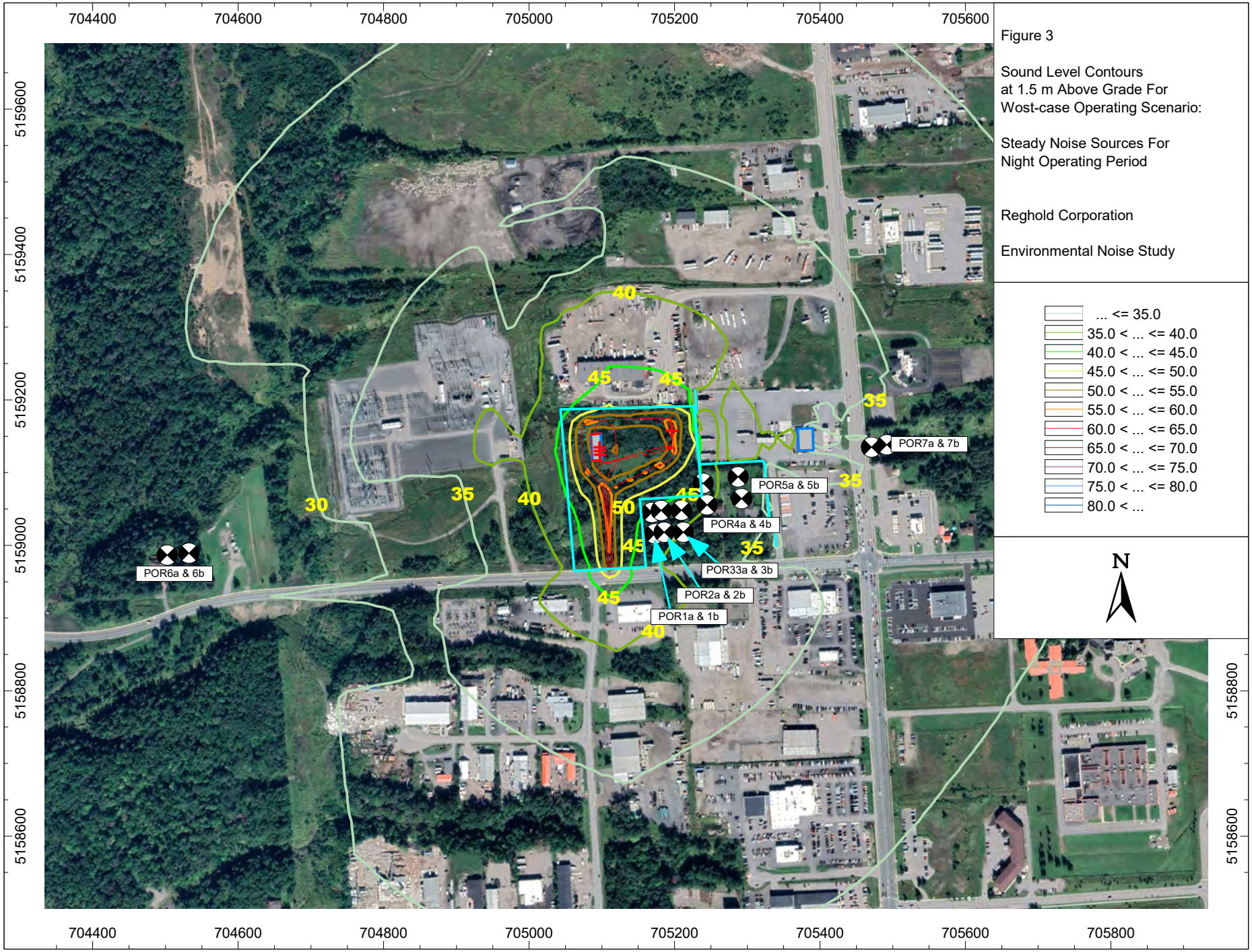


Figure 3

Sound Level Contours
at 1.5 m Above Grade For
Wost-case Operating Scenario:

Steady Noise Sources For
Night Operating Period

Reghold Corporation

Environmental Noise Study

- ... <= 35.0
- 35.0 < ... <= 40.0
- 40.0 < ... <= 45.0
- 45.0 < ... <= 50.0
- 50.0 < ... <= 55.0
- 55.0 < ... <= 60.0
- 60.0 < ... <= 65.0
- 65.0 < ... <= 70.0
- 70.0 < ... <= 75.0
- 75.0 < ... <= 80.0
- 80.0 < ...

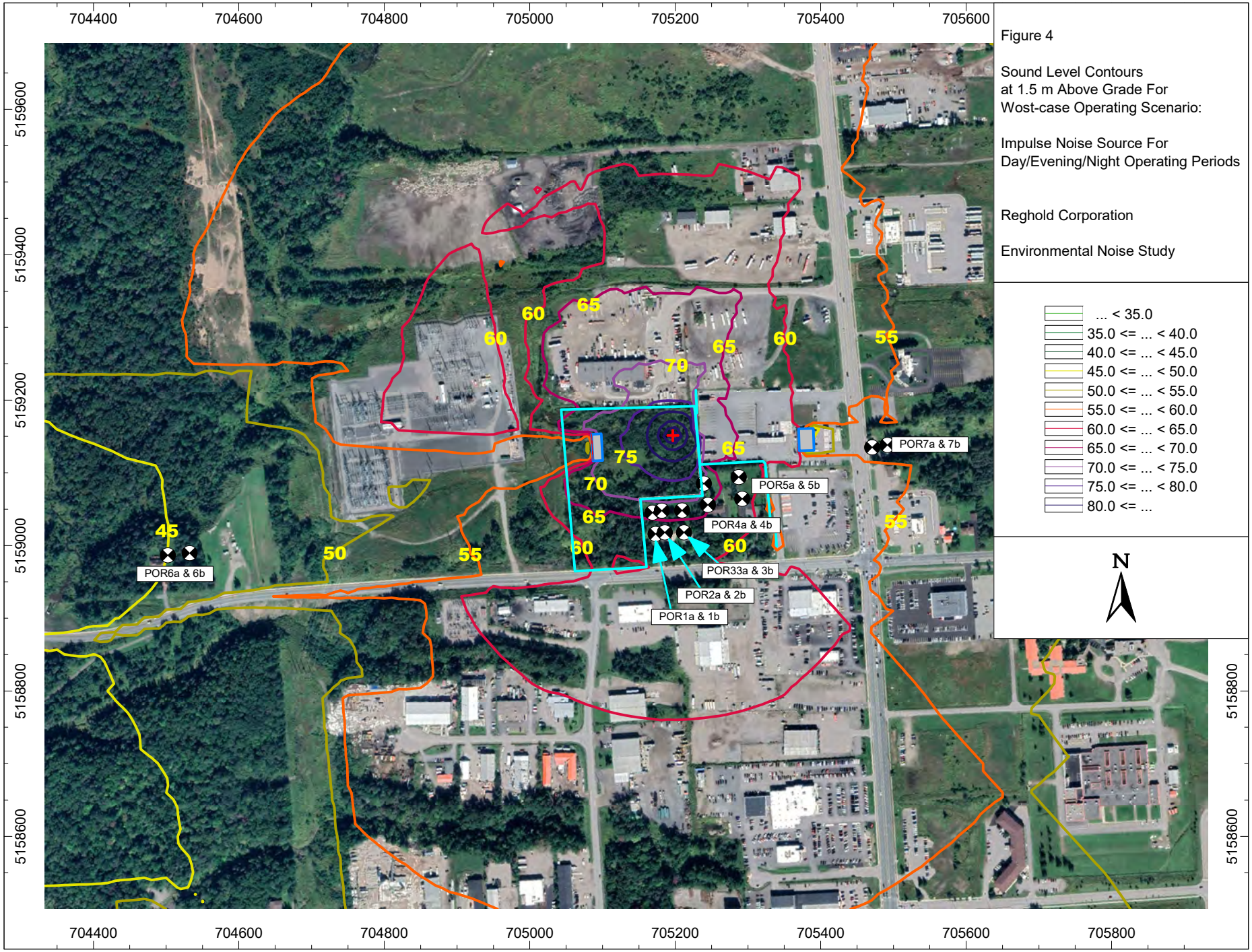


Figure 4

Sound Level Contours
at 1.5 m Above Grade For
Wost-case Operating Scenario:

Impulse Noise Source For
Day/Evening/Night Operating Periods

Reghold Corporation

Environmental Noise Study

Appendix A

Supporting Information

Table A1: Equipment Summary

Source ID	Source Description	Source Type	Significant?	Data Source	Manufacturer	Model	Comments
1	Roof-top HVAC	Point	Yes	Estimated 1a			Assumed 5 ton cc HVAC
2	Roof-top Washroom Exhaust Fan	Point	Yes	Estimated 1b			
3	Roof-top Washroom Exhaust Fan	Point	Yes	Estimated 1b			
4	Maintenace Bay #1 North Door (Open)	Vertical Area	Yes	Estimated 1c			4.9 m x 4.3 m
5	Maintenace Bay #1 South Door (Open)	Vertical Area	Yes	Estimated 1c			4.9 m x 4.3 m
6	Maintenace Bay #2 North Door (Open)	Vertical Area	Yes	Estimated 1c			4.9 m x 4.3 m
7	Maintenace Bay #2 South Door (Open)	Vertical Area	Yes	Estimated 1c			4.9 m x 4.3 m
8	Truck Movement 1	Mvg-Pt	Yes	Estimated 1d			D: 2/h; E: 2/h; N: 1/h
9	Truck Movement 2	Mvg-Pt	Yes	Estimated 1d			D: 1/h; E: 0/h; N: 0/h
10	Truck Idling	Point	Yes	Estimated 1c			No idle policy.
11	Forklift Movement	Mvg-Pt	Yes	Estimated 1c			D: 2/h; E: 0/h; N: 0/h
12	Truck Coupling/Decoupling	Point	Yes	Estimated 1c			D: 2/h; E: 2/h; N: 1/h

Notes:
1a: Estimated based on physial characteristics of source (based on assumed size of unit that would be installed). Refer to Table B2, App. B for calculation estimate.
1b: Estimated with manufacturer sound performance data for typical exhaust fan. Refer to Table B2, App. B for calculation estimate.
1c: Data taken from database of similar measured source at different facility.
1d: Estimated using FHWA. Refer to Table B3, App. B for calculation estimate.

Appendix B

Noise Calculations & Cadna-A Model

Environmental Noise Study

Reghold Corporation - 534 & 556 Third Line East, Sault Ste. Marie

NAPSCI 22-020

Table B1: Source Summary Calculations

#REF!	Description	Source Type	Sound Pressure Level [dB] - Raw Data									Data Source	Q	Distance to Source (r)		NPC-104 Correction Factor	NPC-104 Correction Factor	Sound Power Level [dB] (4)								OverallPWL (4)		Max Operation Time Day	Max Operation Time Evening	Max Operation Time Night	NPC-104 Correction Factor Day	NPC-104 Correction Factor Evening	NPC-104 Correction Factor Night	Adjusted PWL (5) Day	Adjusted PWL (5) Evening	Adjusted PWL (5) Night
			63	125	250	500	1000	2000	4000	8000	Overall dBA			m	ft	(2) Tonality	(3) Quasi-Stdy	63	125	250	500	1000	2000	4000	8000	dB	dBA	min/h	min/h	min/h	Intermittence	Intermittence	Intermittence	dBA	dBA	dBA
1	Roof-top HVAC	Point	--	--	--	--	--	--	--	--	--	Estimated 1a	--	--	--	0	0	86.4	87.4	87.4	86.4	84.4	80.4	76.4	70.4	93.8	88.9	60	60	45	0	0	-1	88.9	88.9	87.7
2	Roof-top Washroom Exhaust Fan	Point	--	--	--	--	--	--	--	--	70.7	Estimated 1b	2		5.0	0	0	--	--	--	--	--	--	--	--	--	82.1	60	60	60	0	0	0	82.1	82.1	82.1
3	Roof-top Washroom Exhaust Fan	Point	--	--	--	--	--	--	--	--	70.7	Estimated 1b	2		5.0	0	0	--	--	--	--	--	--	--	--	--	82.1	60	60	60	0	0	0	82.1	82.1	82.1
4	Maintenace Bay #1 North Door (Open)	Vertical Area	--	--	--	--	--	--	--	--	--	Estimated 1c				0	10	--	--	--	--	--	--	--	--	--	88.1	5	0	0	-11	Not Op.	Not Op.	77.3	0.0	0.0
5	Maintenace Bay #1 South Door (Open)	Vertical Area	--	--	--	--	--	--	--	--	--	Estimated 1c				0	10	--	--	--	--	--	--	--	--	--	88.1	5	0	0	-11	Not Op.	Not Op.	77.3	0.0	0.0
6	Maintenace Bay #2 North Door (Open)	Vertical Area	--	--	--	--	--	--	--	--	--	Estimated 1c				0	10	--	--	--	--	--	--	--	--	--	88.1	5	0	0	-11	Not Op.	Not Op.	77.3	0.0	0.0
7	Maintenace Bay #2 South Door (Open)	Vertical Area	--	--	--	--	--	--	--	--	--	Estimated 1c				0	10	--	--	--	--	--	--	--	--	--	88.1	5	0	0	-11	Not Op.	Not Op.	77.3	0.0	0.0
8	Truck Movement 1	Mvg-Pt	--	--	--	--	--	--	--	--	--	Estimated 1d	--	--	--	0	0	104.3	108.3	107.3	104.3	100.3	97.3	90.3	83.3	112.8	106.2	8	8	4	-9	-9	-12	97.2	97.2	94.1
9a	Truck Movement 2 - Before Bldg	Mvg-Pt	--	--	--	--	--	--	--	--	--	Estimated 1d	--	--	--	0	0	104.3	108.3	107.3	104.3	100.3	97.3	90.3	83.3	112.8	106.2	1	0	0	-16	Not Op.	Not Op.	89.9	0.0	0.0
9b	Truck Movement 2 - After Bldg	Point	--	--	--	--	--	--	--	--	--	Estimated 1d	--	--	--	0	0	104.3	108.3	107.3	104.3	100.3	97.3	90.3	83.3	112.8	106.2	1	0	0	-18	Not Op.	Not Op.	88.0	0.0	0.0
10	Truck Idling	Point	68.8	68.2	66.2	67.4	67.6	63.9	58.6	52.4	71.3	Estimated 1c	2	3.0	9.8	0	0	86.2	85.5	83.5	84.8	85.0	81.2	76.0	69.8	92.5	88.6	15	15	5	-6	-6	-11	82.6	82.6	77.8
11	Forklift Movement	Mvg-Pt	77.1	79.1	69.9	67.8	67.6	62.5	57.1	55.5	71.9	Estimated 1c	2	2.5	8.2	0	0	92.8	94.9	85.6	83.6	83.4	78.3	72.8	71.2	97.7	87.6	3	0	0	-13	Not Op.	Not Op.	74.7	0.0	0.0
12	Truck Coupling/Decoupling	Point	--	--	--	--	--	--	--	--	--	Estimated 1c	--	--	--	--	--	--	--	--	--	--	--	--	--	--	119.0	Impulse	Impulse	Impulse	--	--	--	119.0	119.0	119.0

Note: 1a: Estimated based on physial characteristics of source (based on assumed size of unit that would be installed). Refer to Table B2, App. B for calculation estimate.
1b: Estimated with manufacturer sound performance data for typical exhaust fan. Refer to Table B2, App. B for calculation estimate.
1c: Data taken from database of similar measured source at different facility.
1d: Estimated using FHWA. Refer to Table B3, App. B for calculation estimate.
2: 0 = Not Tonal; 5 = Tonal
3: 0 = Not Quasi-steady; 10 = Quasi-steady
4: PWL values not adjusted for tonality or quasi-steady impulsive noise.
5: PWL values adjusted for intermittence

Environmental Noise Study

Reghold Corporation - 534 & 556 Third Line East, Sault Ste. Marie

NAPSCI 22-020

Table B2: Noise Source Estimates

Table B2-1: HVAC Noise Estimate Based on Cooling Capacity

Source ID	Source Description	Cooling Capacity	Calculated Overall PWL	Calculated PWL by Octave Band Center Frequency (Hz)								Overall PWL		Comments
		(tons)	(dB)	63	125	250	500	1000	2000	4000	8000	dB	dBA	
1	Roof-top HVAC	5	94	86	87	87	86	84	80	76	70	93.8	88.9	Reference 1

Reference 1: Noise Control for Buildings & Manufacturing Plants; Hoover & Keith, 2005.

Table B2-2: Fan Noise Estimate Based on Manufacturer Sound Data in Sones

Source ID	Source Description	Manufacturer [1]	Model [1]	Maximum Sones	SPL @ 5ft
					(dbA)
2	Roof-top Washroom Exhaust Fan	Greenheck	CUBE/CUB 100HP	16.8	71
3	Roof-top Washroom Exhaust Fan	Greenheck	CUBE/CUB 100HP	16.8	71

Note 1: As exhaust fan is not yet selected, sound levels are conservatively estimated based on a 0.5 hp, 1000 cfm roof-top upblast exhaust fan

Note 2: Estimate of SPL based on sones per document from Greenheck Fan Corporation "The Basis of Fan Sound". Estimate of SPL at 5 feet = 33.3 * Log (Scones) + 28 +/- 2 dBA

Table B3: Noise Source Estimates for Truck Traffic

Source ID	Description	Overall PWL	Overall PWL	Value to be subtracted from Overall SPL (dB) to Give SPL for each Octave Band (Note 1)							
				9	5	6	9	13	16	23	30
		dB	dB	63	125	250	500	1000	2000	4000	8000
8	Truck Movement 1	113	106	104.3	108.3	107.3	104.3	100.3	97.3	90.3	83.3
9	Truck Movement 2	113	106	104.3	108.3	107.3	104.3	100.3	97.3	90.3	83.3

Note 1: Estimated using FHWA. Ocatve band corrections from Noise Control for Buildings & Manufacturing Plants; Hoover & Keith, 2005.

	POR	E (m)	N (m)	Ht (m)
Residence Yard --->	1a	705169	5159045	1.5
Residence 1st Storey POW --->	1b	705173	5159016	1.5
Residence Yard --->	2a	705182	5159048	1.5
Residence 2ndt Storey POW --->	2b	705186	5159018	4.5
Residence Yard --->	3a	705210	5159048	1.5
Residence 2ndt Storey POW --->	3b	705212	5159018	4.5
Residence Yard --->	4a	705239	5159085	1.5
Residence 2ndt Storey POW --->	4b	705245	5159056	4.5

	POR	E (m)	N (m)	Ht (m)
Residence Yard --->	5a	705287	5159094	1.5
Residence 2ndt Storey POW --->	5b	705292	5159064	4.5
Residence Yard --->	6a	704532	5158989	1.5
Residence 2ndt Storey POW --->	6b	704502	5158987	4.5
Residence Yard --->	7a	705471	5159135	1.5
Residence 2ndt Storey POW --->	7b	705492	5159138	4.5

Table C4: Cadna Set-up

Source Information								Distances to PORs												
Source ID	Source Description	Source Type	Site Location		Building Height	HAR	HAG	POR1a	POR1b	POR2a	POR2b	POR3a	POR3b	POR4a	POR4b	POR5a	POR5b	POR6a	POR6b	POR7a	POR7b
			Easting	Northing																	
			m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
1	Roof-top HVAC	Point	705096.8	5159134.9	6.7	1.0	7.7	115	141	121	147	142	164	151	168	195	208	583	613	374	395
2	Roof-top Washroom Exhaust Fan	Point	705097.0	5159129.8	6.7	1.0	7.7	111	137	118	143	139	160	149	165	194	206	582	612	374	395
3	Roof-top Washroom Exhaust Fan	Point	705097.4	5159124.8	6.7	1.0	7.7	107	133	114	139	136	157	147	163	193	204	581	611	373	395
4	Maintenace Bay #1 North Door (Open)	Vertical Area	705099.0	5159148.3	--	--	4.3	124	152	130	156	149	172	154	173	196	211	589	618	372	393
5	Maintenace Bay #1 South Door (Open)	Vertical Area	705101.3	5159110.9	--	--	4.3	94	119	102	126	125	145	140	154	187	196	582	612	370	392
6	Maintenace Bay #2 North Door (Open)	Vertical Area	705106.3	5159148.4	--	--	4.3	121	148	125	153	144	168	147	167	189	204	596	625	365	386
7	Maintenace Bay #2 South Door (Open)	Vertical Area	705108.2	5159111.5	--	--	4.3	90	115	97	121	119	140	134	148	180	190	589	618	363	385
8	Truck Movement 1	Mvg-Pt	Varies	Varies	--	--	2.4	55	61	57	73	68	97	55	80	96	111	580	610	276	298
9a	Truck Movement 2 - Before Bldg	Mvg-Pt	Varies	Varies	--	--	2.4	53	63	57	76	68	97	56	80	97	112	578	608	271	292
9b	Truck Movement 2 - After Bldg	Point	Varies	Varies	--	--	2.4	55	66	58	78	73	103	55	82	92	110	576	606	271	292
10	Truck Idling	Point	705196.2	5159157.6	--	--	2.4	116	144	111	140	110	140	84	113	111	134	685	714	275	296
11	Forklift Movement	Mvg-Pt	Varies	Varies	--	--	1.2	79	109	80	109	84	114	63	90	97	116	579	608	273	294
12	Truck Coupling/Decoupling	Point	705196.6	5159151.4	--	--	1.2	110	137	104	134	104	134	79	107	107	129	684	713	275	296

Report (SSM Steady (No Trees) v0.1 (20230411).cna)

Group Table, Day/Night

Name	Expression	Partial Sum Level																																									
		POR1a			POR1b			POR2a			POR2b			POR3a			POR3b			POR4a			POR4b			POR5a			POR5b			POR6a			POR6b			POR7a			POR7b	
		Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	

Sound Sources

Point Sources

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
1			88.9	88.9	88.9	Lw	s1		0.0	0.0	0.0				60.00	60.00	45.00	0.0		(none)	1.00	g	705096.80	5159134.86	7.70
2			82.1	82.1	82.1	Lw	82.1		0.0	0.0	0.0							0.0	500	(none)	1.00	g	705097.04	5159129.84	7.70
3			82.1	82.1	82.1	Lw	82.1		0.0	0.0	0.0							0.0	500	(none)	1.00	g	705097.36	5159124.79	7.70
10			88.8	88.8	88.8	Lw	sTI		0.0	0.0	0.0				15.00	15.00	5.00	0.0		(none)	2.40	r	705196.17	5159157.62	2.40

Line Sources

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(km/h)
8			97.2	97.2	94.1	69.2	69.2	66.2	PWL-Pt	sTT		0.0	0.0	0.0							0.0		(none)	2.0	2.0	1.0	10.0
9a			89.9	-10.1	-10.1	66.2	-33.8	-33.8	PWL-Pt	sTT		0.0	0.0	0.0							0.0		(none)	1.0	0.0	0.0	10.0
9b			88.0	-12.0	-12.0	66.2	-33.8	-33.8	PWL-Pt	sTT		0.0	0.0	0.0							0.0		(none)	1.0	0.0	0.0	10.0
11			74.9	-28.1	-28.1	50.8	-52.2	-52.2	PWL-Pt	sFL		0.0	0.0	0.0							0.0		(none)	2.0	0.0	0.0	10.0

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	

Area Sources vertical

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night			
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)	
4			98.1	88.1	88.1	84.8	74.8	74.8	Li	sRoom		10.0	0.0	0.0	0	21.07		5.00	0.00	0.00	3.0		(none)
6			98.1	88.1	88.1	84.8	74.8	74.8	Li	sRoom		10.0	0.0	0.0	0	21.07		5.00	0.00	0.00	3.0		(none)
5			98.1	88.1	88.1	84.8	74.8	74.8	Li	sRoom		10.0	0.0	0.0	0	21.07		5.00	0.00	0.00	3.0		(none)
7			98.1	88.1	88.1	84.8	74.8	74.8	Li	sRoom		10.0	0.0	0.0	0	21.07		5.00	0.00	0.00	3.0		(none)

Railway Tracks

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day	Night		Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)		(dB)	(dB)	(dB)	(dB)	(km/h)

Railway Classes

Name	M.	ID	Lm,E		Train Class									Add.Level				Vmax
			Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)	(dB)	(km/h)

Parking Lots

Name	M.	ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		According to	Operating Time		
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface		Day	Special	Night
				(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)			(min)	(min)	(min)

Roads

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)

Crossing

Name	M.	ID	Active			Height	Coordinates		
			Day	Evening	Night	Begin	X	Y	Z
						(m)	(m)	(m)	(m)

Receiver Points

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Even	Night	Day	Even	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
POR1a			49.0	47.1	44.4	50.0	50.0	0.0				1.50	r	705168.93	5159045.30	1.50
POR1b			47.0	44.9	42.1	50.0	50.0	45.0				1.50	r	705173.10	5159015.96	1.50
POR2a			48.3	46.5	43.7	50.0	50.0	0.0				1.50	r	705181.52	5159048.05	1.50
POR2b			48.0	46.2	43.5	50.0	50.0	45.0				4.50	r	705185.68	5159017.96	4.50
POR3a			46.4	44.8	41.9	50.0	50.0	0.0				1.50	r	705209.50	5159048.19	1.50
POR3b			46.6	44.8	42.1	50.0	50.0	45.0				4.50	r	705212.11	5159018.12	4.50
POR4a			47.7	46.3	43.5	50.0	50.0	0.0				1.50	r	705239.40	5159085.35	1.50
POR4b			46.7	45.3	42.6	50.0	50.0	45.0				4.50	r	705244.83	5159055.78	4.50
POR5a			42.1	40.1	37.3	50.0	50.0	0.0				1.50	r	705287.49	5159094.29	1.50
POR5b			44.1	42.5	39.8	50.0	50.0	45.0				4.50	r	705292.08	5159064.10	4.50
POR6a			29.0	27.0	24.5	50.0	50.0	0.0				1.50	r	704532.30	5158989.41	1.50
POR6b			30.8	29.0	26.6	50.0	50.0	45.0				4.50	r	704502.48	5158986.68	4.50
POR7a			36.0	34.3	31.6	50.0	50.0	0.0				1.50	r	705470.68	5159135.16	1.50
POR7b			37.1	35.6	33.2	50.0	50.0	45.0				4.50	r	705491.85	5159138.32	4.50
sdk2			71.7	71.7	71.4	0.0	0.0	0.0				1.00	g	705095.39	5159129.78	7.70
sdk3			71.1	71.0	70.9	0.0	0.0	0.0				1.00	g	705095.80	5159124.70	7.70
sdk10			67.7	67.7	63.9	0.0	0.0	0.0				2.40	r	705192.99	5159158.14	2.40

Designated Land Use

Name	M.	ID	Type	Persons
				(1/km²)

Obstacles

Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height			
			left	right		horz.	vert.	Begin		End	
					(m)	(m)	(m)	(m)		(m)	
			0.21	0.21				2.00	r		
	-		0.21	0.21				2.00	r		

Buildings

Name	M.	ID	RB	Residents	Absorption	Height	
						Begin	
						(m)	
				0	0.21	6.70	r
				0	0.21	5.00	r

Foilage

Name	M.	ID	Height
			(m)

Built-Up Area

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometry Data

Geometry Line Sources

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)
8	2.40	r			705107.69	5158967.49	2.40	0.00
					705102.59	5159060.98	2.40	0.00
					705101.02	5159078.01	2.40	0.00
					705094.79	5159088.51	2.40	0.00
					705079.45	5159102.22	2.40	0.00
					705073.75	5159120.38	2.40	0.00
					705071.77	5159154.98	2.40	0.00
					705073.10	5159162.26	2.40	0.00
					705076.61	5159167.16	2.40	0.00
					705083.95	5159171.26	2.40	0.00
					705100.18	5159172.40	2.40	0.00
					705150.79	5159174.15	2.40	0.00
					705182.69	5159175.06	2.40	0.00
					705190.81	5159174.07	2.40	0.00
					705193.70	5159170.78	2.40	0.00
					705195.55	5159157.42	2.40	0.00
					705194.87	5159177.95	2.40	0.00
					705197.39	5159155.34	2.40	0.00
					705199.42	5159126.01	2.40	0.00
					705192.84	5159117.42	2.40	0.00
					705183.97	5159111.61	2.40	0.00
					705163.53	5159103.73	2.40	0.00
					705151.60	5159097.15	2.40	0.00
					705115.91	5159080.21	2.40	0.00
					705111.37	5159076.45	2.40	0.00
					705108.94	5159071.05	2.40	0.00
					705115.28	5158968.12	2.40	0.00
9a	2.40	r			705113.08	5158968.15	2.40	0.00
					705105.88	5159075.89	2.40	0.00
					705109.82	5159099.87	2.40	0.00
					705116.08	5159105.79	2.40	0.00
					705119.32	5159111.89	2.40	0.00
					705119.74	5159135.32	2.40	0.00
					705117.61	5159159.40	2.40	0.00
					705112.61	5159165.75	2.40	0.00
					705105.23	5159168.25	2.40	0.00
					705094.58	5159167.37	2.40	0.00
					705090.93	5159162.53	2.40	0.00
					705090.70	5159154.34	2.40	0.00
9b	2.40	r			705092.76	5159116.04	2.40	0.00
					705094.93	5159103.41	2.40	0.00

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)
					705102.79	5159091.28	2.40	0.00
					705110.37	5158967.86	2.40	0.00
11	1.20	r			705098.53	5159116.49	1.20	0.00
					705099.20	5159114.38	1.20	0.00
					705101.02	5159113.35	1.20	0.00
					705111.45	5159114.90	1.20	0.00
					705122.91	5159118.40	1.20	0.00
					705172.41	5159132.68	1.20	0.00
					705186.79	5159135.45	1.20	0.00
					705197.76	5159136.01	1.20	0.00
					705187.20	5159134.07	1.20	0.00
					705197.63	5159134.43	1.20	0.00
					705187.55	5159132.87	1.20	0.00
					705197.98	5159133.12	1.20	0.00
					705189.13	5159131.14	1.20	0.00
					705122.00	5159116.88	1.20	0.00
					705109.49	5159113.42	1.20	0.00
					705099.32	5159112.37	1.20	0.00
					705099.61	5159110.57	1.20	0.00
					705098.51	5159112.95	1.20	0.00
					705097.61	5159116.28	1.20	0.00

Geometry Area Sources

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)

Geometry Parkking Lots

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)

Geometry Roads

Name	Height				Coordinates				Dist	LSlope
	Begin		End		x	y	z	Ground	(m)	(%)
	(m)		(m)		(m)	(m)	(m)	(m)		

Geometry Railway Tracks

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)

Geometry Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height				Coordinates			
			left	right		horz.	vert.	Begin		End		x	y	z	Ground
					(m)	(m)	(m)	(m)		(m)		(m)	(m)	(m)	(m)
			0.21	0.21				2.00	r			705228.39	5159213.53	2.00	0.00
												705229.93	5159182.26	2.00	0.00
												705227.71	5159182.03	2.00	0.00
												705234.23	5159111.26	2.00	0.00
												705320.57	5159115.96	2.00	0.00
												705323.79	5159112.82	2.00	0.00
												705331.35	5159027.61	2.00	0.00
												705337.66	5159023.73	2.00	0.00
												705339.55	5158998.98	2.00	0.00
	-		0.21	0.21				2.00	r			705152.24	5159038.31	2.00	0.00
												705149.82	5159065.73	2.00	0.00
												705235.08	5159070.77	2.00	0.00

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height				Coordinates			
			left	right		horz.	vert.	Begin		End		x	y	z	Ground
					(m)	(m)	(m)	(m)		(m)		(m)	(m)	(m)	(m)
												705231.77	5159107.54	2.00	0.00

Geometry Buildings

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(m)		(m)	(m)	(m)	(m)
				0	0.21	6.70	r	705087.15	5159116.27	6.70	0.00
								705100.37	5159117.05	6.70	0.00
								705098.23	5159153.61	6.70	0.00
								705085.01	5159152.83	6.70	0.00
				0	0.21	5.00	r	705389.84	5159161.20	5.00	0.00
								705369.58	5159160.58	5.00	0.00
								705370.50	5159130.31	5.00	0.00
								705390.76	5159130.92	5.00	0.00

Geometry Contour Lines

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)

Geometry Lines of Fault

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (m)	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	60.00
Reference Time Night (min)	60.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - 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	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.00
Wind Speed for Dir. (m/s)	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03)	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receiver
Name: POR1a
ID:
X: 705168.93
Y: 5159045.30
Z: 1.50

Point Source, ISO 9613, Name: "1", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705096.80	5159134.86	7.70	0	63	60.2	59.0	0.0	0.0	52.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	11.0	9.7
2	705096.80	5159134.86	7.70	0	125	71.3	70.1	0.0	0.0	52.2	0.1	-0.5	0.0	0.0	0.0	0.0	-0.0	19.6	18.3
3	705096.80	5159134.86	7.70	0	250	78.8	77.6	0.0	0.0	52.2	0.1	3.3	0.0	0.0	0.0	0.0	-0.0	23.2	22.0
4	705096.80	5159134.86	7.70	0	500	83.2	82.0	0.0	0.0	52.2	0.2	1.9	0.0	0.0	0.0	0.0	-0.0	28.9	27.6
5	705096.80	5159134.86	7.70	0	1000	84.4	83.2	0.0	0.0	52.2	0.4	-1.0	0.0	0.0	0.0	0.0	-0.0	32.8	31.5
6	705096.80	5159134.86	7.70	0	2000	81.6	80.4	0.0	0.0	52.2	1.1	-1.5	0.0	0.0	0.0	0.0	-0.0	29.7	28.5
7	705096.80	5159134.86	7.70	0	4000	77.4	76.2	0.0	0.0	52.2	3.8	-1.5	0.0	0.0	0.0	0.0	-0.0	22.9	21.6
8	705096.80	5159134.86	7.70	0	8000	69.3	68.1	0.0	0.0	52.2	13.5	-1.5	0.0	0.0	0.0	0.0	-0.0	5.1	3.8

Point Source, ISO 9613, Name: "2", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705097.04	5159129.84	7.70	0	500	82.1	82.1	0.0	0.0	51.9	0.2	2.0	0.0	0.0	0.0	0.0	-0.0	28.0	28.0

Point Source, ISO 9613, Name: "3", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705097.36	5159124.79	7.70	0	500	82.1	82.1	0.0	0.0	51.6	0.2	2.1	0.0	0.0	0.0	0.0	-0.0	28.2	28.2

Point Source, ISO 9613, Name: "10", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705196.17	5159157.62	2.40	0	63	54.1	49.3	0.0	0.0	52.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.8	0.1
2	705196.17	5159157.62	2.40	0	125	63.6	58.8	0.0	0.0	52.3	0.1	-1.5	0.0	0.0	0.0	0.0	-0.0	12.8	8.1
3	705196.17	5159157.62	2.40	0	250	69.1	64.3	0.0	0.0	52.3	0.1	2.0	0.0	0.0	0.0	0.0	-0.0	14.7	10.0
4	705196.17	5159157.62	2.40	0	500	75.7	70.9	0.0	0.0	52.3	0.2	0.8	0.0	0.0	0.0	0.0	-0.0	22.4	17.7
5	705196.17	5159157.62	2.40	0	1000	79.1	74.3	0.0	0.0	52.3	0.4	-1.7	0.0	0.0	0.0	0.0	-0.0	28.1	23.3
6	705196.17	5159157.62	2.40	0	2000	76.6	71.8	0.0	0.0	52.3	1.1	-2.0	0.0	0.0	0.0	0.0	-0.0	25.3	20.5
7	705196.17	5159157.62	2.40	0	4000	71.1	66.3	0.0	0.0	52.3	3.8	-2.0	0.0	0.0	0.0	0.0	-0.0	17.1	12.3
8	705196.17	5159157.62	2.40	0	8000	62.8	58.0	0.0	0.0	52.3	13.5	-2.0	0.0	0.0	0.0	0.0	-0.0	-0.9	-5.7

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705109.73	5159058.19	2.40	0	63	55.2	52.2	0.0	0.0	46.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	11.6	8.6
2	705109.73	5159058.19	2.40	0	125	69.3	66.3	0.0	0.0	46.6	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	21.3	18.3
3	705109.73	5159058.19	2.40	0	250	75.8	72.8	0.0	0.0	46.6	0.1	8.3	0.0	0.0	0.0	0.0	-0.0	20.9	17.9
4	705109.73	5159058.19	2.40	0	500	78.2	75.2	0.0	0.0	46.6	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	27.4	24.4
5	705109.73	5159058.19	2.40	0	1000	77.4	74.4	0.0	0.0	46.6	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	30.2	27.1
6	705109.73	5159058.19	2.40	0	2000	75.6	72.6	0.0	0.0	46.6	0.6	-0.1	0.0	0.0	0.0	0.0	-0.0	28.5	25.5
7	705109.73	5159058.19	2.40	0	4000	68.4	65.4	0.0	0.0	46.6	2.0	-0.1	0.0	0.0	0.0	0.0	-0.0	19.9	16.9
8	705109.73	5159058.19	2.40	0	8000	59.3	56.3	0.0	0.0	46.6	7.1	-0.1	0.0	0.0	0.0	0.0	-0.0	5.7	2.7
9	705111.32	5159032.45	2.40	0	63	55.2	52.2	0.0	0.0	46.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	11.8	8.8
10	705111.32	5159032.45	2.40	0	125	69.3	66.3	0.0	0.0	46.4	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	21.6	18.6
11	705111.32	5159032.45	2.40	0	250	75.8	72.8	0.0	0.0	46.4	0.1	7.8	0.0	0.0	0.0	0.0	-0.0	21.5	18.5
12	705111.32	5159032.45	2.40	0	500	78.2	75.2	0.0	0.0	46.4	0.1	3.8	0.0	0.0	0.0	0.0	-0.0	27.9	24.9
13	705111.32	5159032.45	2.40	0	1000	77.4	74.4	0.0	0.0	46.4	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	30.5	27.5
14	705111.32	5159032.45	2.40	0	2000	75.6	72.6	0.0	0.0	46.4	0.6	-0.2	0.0	0.0	0.0	0.0	-0.0	28.8	25.8
15	705111.32	5159032.45	2.40	0	4000	68.4	65.4	0.0	0.0	46.4	1.9	-0.2	0.0	0.0	0.0	0.0	-0.0	20.2	17.2
16	705111.32	5159032.45	2.40	0	8000	59.3	56.3	0.0	0.0	46.4	6.9	-0.2	0.0	0.0	0.0	0.0	-0.0	6.2	3.1
17	705112.90	5159006.72	2.40	0	63	55.2	52.2	0.0	0.0	47.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.6	7.5
18	705112.90	5159006.72	2.40	0	125	69.3	66.3	0.0	0.0	47.6	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	20.3	17.3
19	705112.90	5159006.72	2.40	0	250	75.8	72.8	0.0	0.0	47.6	0.1	8.5	0.0	0.0	0.0	0.0	-0.0	19.6	16.6

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
20	705112.90	5159006.72	2.40	0	500	78.2	75.2	0.0	0.0	47.6	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	26.3	23.3
21	705112.90	5159006.72	2.40	0	1000	77.4	74.4	0.0	0.0	47.6	0.3	0.4	0.0	0.0	0.0	0.0	-0.0	29.2	26.2
22	705112.90	5159006.72	2.40	0	2000	75.6	72.6	0.0	0.0	47.6	0.7	-0.2	0.0	0.0	0.0	0.0	-0.0	27.5	24.4
23	705112.90	5159006.72	2.40	0	4000	68.4	65.4	0.0	0.0	47.6	2.2	-0.2	0.0	0.0	0.0	0.0	-0.0	18.7	15.7
24	705112.90	5159006.72	2.40	0	8000	59.3	56.3	0.0	0.0	47.6	8.0	-0.2	0.0	0.0	0.0	0.0	-0.0	3.9	0.9
25	705114.49	5158980.98	2.40	0	63	55.2	52.2	0.0	0.0	49.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	8.7	5.7
26	705114.49	5158980.98	2.40	0	125	69.3	66.3	0.0	0.0	49.5	0.0	1.7	0.0	0.0	0.0	0.0	-0.0	18.1	15.1
27	705114.49	5158980.98	2.40	0	250	75.8	72.8	0.0	0.0	49.5	0.1	9.7	0.0	0.0	0.0	0.0	-0.0	16.5	13.5
28	705114.49	5158980.98	2.40	0	500	78.2	75.2	0.0	0.0	49.5	0.2	4.8	0.0	0.0	0.0	0.0	-0.0	23.8	20.8
29	705114.49	5158980.98	2.40	0	1000	77.4	74.4	0.0	0.0	49.5	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	27.1	24.1
30	705114.49	5158980.98	2.40	0	2000	75.6	72.6	0.0	0.0	49.5	0.8	-0.1	0.0	0.0	0.0	0.0	-0.0	25.4	22.3
31	705114.49	5158980.98	2.40	0	4000	68.4	65.4	0.0	0.0	49.5	2.8	-0.1	0.0	0.0	0.0	0.0	-0.0	16.2	13.2
32	705114.49	5158980.98	2.40	0	8000	59.3	56.3	0.0	0.0	49.5	9.9	-0.1	0.0	0.0	0.0	0.0	-0.0	0.0	-3.0
33	705107.05	5158979.17	2.40	0	63	54.8	51.8	0.0	0.0	50.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.6	4.6
34	705107.05	5158979.17	2.40	0	125	68.9	65.9	0.0	0.0	50.1	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	17.3	14.3
35	705107.05	5158979.17	2.40	0	250	75.4	72.4	0.0	0.0	50.1	0.1	9.2	0.0	0.0	0.0	0.0	-0.0	16.0	12.9
36	705107.05	5158979.17	2.40	0	500	77.8	74.8	0.0	0.0	50.1	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	22.9	19.9
37	705107.05	5158979.17	2.40	0	1000	77.0	74.0	0.0	0.0	50.1	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	26.2	23.2
38	705107.05	5158979.17	2.40	0	2000	75.2	72.2	0.0	0.0	50.1	0.9	-0.2	0.0	0.0	0.0	0.0	-0.0	24.4	21.4
39	705107.05	5158979.17	2.40	0	4000	68.0	65.0	0.0	0.0	50.1	3.0	-0.2	0.0	0.0	0.0	0.0	-0.0	15.1	12.1
40	705107.05	5158979.17	2.40	0	8000	58.9	55.9	0.0	0.0	50.1	10.6	-0.2	0.0	0.0	0.0	0.0	-0.0	-1.6	-4.6
41	705105.78	5159002.55	2.40	0	63	54.8	51.8	0.0	0.0	48.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.2	6.1
42	705105.78	5159002.55	2.40	0	125	68.9	65.9	0.0	0.0	48.6	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	19.0	16.0
43	705105.78	5159002.55	2.40	0	250	75.4	72.4	0.0	0.0	48.6	0.1	8.4	0.0	0.0	0.0	0.0	-0.0	18.3	15.3
44	705105.78	5159002.55	2.40	0	500	77.8	74.8	0.0	0.0	48.6	0.2	4.1	0.0	0.0	0.0	0.0	-0.0	24.9	21.9
45	705105.78	5159002.55	2.40	0	1000	77.0	74.0	0.0	0.0	48.6	0.3	0.2	0.0	0.0	0.0	0.0	-0.0	27.9	24.9
46	705105.78	5159002.55	2.40	0	2000	75.2	72.2	0.0	0.0	48.6	0.7	-0.3	0.0	0.0	0.0	0.0	-0.0	26.1	23.1
47	705105.78	5159002.55	2.40	0	4000	68.0	65.0	0.0	0.0	48.6	2.5	-0.3	0.0	0.0	0.0	0.0	-0.0	17.2	14.2
48	705105.78	5159002.55	2.40	0	8000	58.9	55.9	0.0	0.0	48.6	8.9	-0.3	0.0	0.0	0.0	0.0	-0.0	1.6	-1.4
49	705104.50	5159025.92	2.40	0	63	54.8	51.8	0.0	0.0	47.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.2	7.2
50	705104.50	5159025.92	2.40	0	125	68.9	65.9	0.0	0.0	47.6	0.0	1.1	0.0	0.0	0.0	0.0	-0.0	20.2	17.2
51	705104.50	5159025.92	2.40	0	250	75.4	72.4	0.0	0.0	47.6	0.1	8.0	0.0	0.0	0.0	0.0	-0.0	19.8	16.8
52	705104.50	5159025.92	2.40	0	500	77.8	74.8	0.0	0.0	47.6	0.1	3.9	0.0	0.0	0.0	0.0	-0.0	26.2	23.2
53	705104.50	5159025.92	2.40	0	1000	77.0	74.0	0.0	0.0	47.6	0.3	0.2	0.0	0.0	0.0	0.0	-0.0	29.0	26.0
54	705104.50	5159025.92	2.40	0	2000	75.2	72.2	0.0	0.0	47.6	0.7	-0.3	0.0	0.0	0.0	0.0	-0.0	27.3	24.3
55	705104.50	5159025.92	2.40	0	4000	68.0	65.0	0.0	0.0	47.6	2.2	-0.3	0.0	0.0	0.0	0.0	-0.0	18.5	15.5
56	705104.50	5159025.92	2.40	0	8000	58.9	55.9	0.0	0.0	47.6	7.9	-0.3	0.0	0.0	0.0	0.0	-0.0	3.8	0.8
57	705103.23	5159049.30	2.40	0	63	54.8	51.8	0.0	0.0	47.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.4	7.4
58	705103.23	5159049.30	2.40	0	125	68.9	65.9	0.0	0.0	47.4	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	20.4	17.3
59	705103.23	5159049.30	2.40	0	250	75.4	72.4	0.0	0.0	47.4	0.1	8.0	0.0	0.0	0.0	0.0	-0.0	20.0	17.0
60	705103.23	5159049.30	2.40	0	500	77.8	74.8	0.0	0.0	47.4	0.1	3.9	0.0	0.0	0.0	0.0	-0.0	26.4	23.4
61	705103.23	5159049.30	2.40	0	1000	77.0	74.0	0.0	0.0	47.4	0.2	0.2	0.0	0.0	0.0	0.0	-0.0	29.2	26.2
62	705103.23	5159049.30	2.40	0	2000	75.2	72.2	0.0	0.0	47.4	0.6	-0.3	0.0	0.0	0.0	0.0	-0.0	27.4	24.4
63	705103.23	5159049.30	2.40	0	4000	68.0	65.0	0.0	0.0	47.4	2.2	-0.3	0.0	0.0	0.0	0.0	-0.0	18.7	15.7
64	705103.23	5159049.30	2.40	0	8000	58.9	55.9	0.0	0.0	47.4	7.7	-0.3	0.0	0.0	0.0	0.0	-0.0	4.1	1.1
65	705142.68	5159092.92	2.40	0	63	54.1	51.1	0.0	0.0	45.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	11.4	8.3
66	705142.68	5159092.92	2.40	0	125	68.2	65.2	0.0	0.0	45.7	0.0	-0.4	0.0	0.0	0.0	0.0	-0.0	22.8	19.8
67	705142.68	5159092.92	2.40	0	250	74.7	71.7	0.0	0.0	45.7	0.1	3.7	0.0	0.0	0.0	0.0	-0.0	25.2	22.2
68	705142.68	5159092.92	2.40	0	500	77.1	74.1	0.0	0.0	45.7	0.1	1.3	0.0	0.0	0.0	0.0	-0.0	29.9	26.9
69	705142.68	5159092.92	2.40	0	1000	76.3	73.3	0.0	0.0	45.7	0.2	-0.9	0.0	0.0	0.0	0.0	-0.0	31.3	28.2
70	705142.68	5159092.92	2.40	0	2000	74.5	71.5	0.0	0.0	45.7	0.5	-1.2	0.0	0.0	0.0	0.0	-0.0	29.4	26.4
71	705142.68	5159092.92	2.40	0	4000	67.3	64.3	0.0	0.0	45.7	1.8	-1.2	0.0	0.0	0.0	0.0	-0.0	21.0	18.0
72	705142.68	5159092.92	2.40	0	8000	58.2	55.2	0.0	0.0	45.7	6.4	-1.2	0.0	0.0	0.0	0.0	-0.0	7.3	4.3
73	705124.83	5159084.44	2.40	0	63	54.1	51.1	0.0	0.0	46.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.7	7.6
74	705124.83	5159084.44	2.40	0	125	68.2	65.2	0.0	0.0	46.4	0.0	0.4	0.0	0.0	0.0	0.0	-0.0	21.4	18.4
75	705124.83	5159084.44	2.40	0	250	74.7	71.7	0.0	0.0	46.4	0.1	5.7	0.0	0.0	0.0	0.0	-0.0	22.5	19.5
76	705124.83	5159084.44	2.40	0	500	77.1	74.1	0.0	0.0	46.4	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	27.9	24.9
77	705124.83	5159084.44	2.40	0	1000	76.3	73.3	0.0	0.0	46.4	0.2	-0.3	0.0	0.0	0.0	0.0	-0.0	30.0	27.0
78	705124.83	5159084.44	2.40	0	2000	74.5	71.5	0.0	0.0	46.4	0.6	-0.7	0.0	0.0	0.0	0.0	-0.0	28.2	25.2
79	705124.83	5159084.44	2.40	0	4000	67.3	64.3	0.0	0.0	46.4	1.9	-0.7	0.0	0.0	0.0	0.0	-0.0	19.7	16.6
80	705124.83	5159084.44	2.40	0	8000	58.2	55.2	0.0	0.0	46.4	6.9	-0.7	0.0	0.0	0.0	0.0	-0.0	5.6	2.6
81	705173.75	5159107.67	2.40	0	63	54.5	51.5	0.0	0.0	46.9	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.6	7.6
82	705173.75	5159107.67	2.40	0	125	68.6	65.6	0.0	0.0	46.9	0.0	-0.6	0.0	0.0	0.0	0.0	-0.0	22.3	19.3

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
83	705173.75	5159107.67	2.40	0	250	75.1	72.1	0.0	0.0	46.9	0.1	3.4	0.0	0.0	0.0	0.0	-0.0	24.7	21.7
84	705173.75	5159107.67	2.40	0	500	77.5	74.5	0.0	0.0	46.9	0.1	1.1	0.0	0.0	0.0	0.0	-0.0	29.3	26.3
85	705173.75	5159107.67	2.40	0	1000	76.7	73.7	0.0	0.0	46.9	0.2	-1.1	0.0	0.0	0.0	0.0	-0.0	30.7	27.6
86	705173.75	5159107.67	2.40	0	2000	74.9	71.9	0.0	0.0	46.9	0.6	-1.4	0.0	0.0	0.0	0.0	-0.0	28.8	25.8
87	705173.75	5159107.67	2.40	0	4000	67.7	64.7	0.0	0.0	46.9	2.0	-1.4	0.0	0.0	0.0	0.0	-0.0	20.1	17.1
88	705173.75	5159107.67	2.40	0	8000	58.6	55.6	0.0	0.0	46.9	7.3	-1.4	0.0	0.0	0.0	0.0	-0.0	5.8	2.8
89	705157.57	5159100.44	2.40	0	63	52.5	49.4	0.0	0.0	46.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.4	6.4
90	705157.57	5159100.44	2.40	0	125	66.6	63.5	0.0	0.0	46.0	0.0	-0.7	0.0	0.0	0.0	0.0	-0.0	21.2	18.2
91	705157.57	5159100.44	2.40	0	250	73.1	70.0	0.0	0.0	46.0	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	24.0	20.9
92	705157.57	5159100.44	2.40	0	500	75.5	72.4	0.0	0.0	46.0	0.1	0.9	0.0	0.0	0.0	0.0	-0.0	28.4	25.4
93	705157.57	5159100.44	2.40	0	1000	74.7	71.6	0.0	0.0	46.0	0.2	-1.1	0.0	0.0	0.0	0.0	-0.0	29.6	26.6
94	705157.57	5159100.44	2.40	0	2000	72.9	69.8	0.0	0.0	46.0	0.5	-1.4	0.0	0.0	0.0	0.0	-0.0	27.7	24.7
95	705157.57	5159100.44	2.40	0	4000	65.7	62.6	0.0	0.0	46.0	1.9	-1.4	0.0	0.0	0.0	0.0	-0.0	19.2	16.2
96	705157.57	5159100.44	2.40	0	8000	56.6	53.5	0.0	0.0	46.0	6.6	-1.4	0.0	0.0	0.0	0.0	-0.0	5.4	2.4
97	705198.40	5159140.67	2.40	0	63	55.8	52.8	0.0	0.0	51.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.8	4.8
98	705198.40	5159140.67	2.40	0	125	69.9	66.9	0.0	0.0	51.0	0.0	-1.5	0.0	0.0	0.0	0.0	-0.0	20.3	17.3
99	705198.40	5159140.67	2.40	0	250	76.4	73.4	0.0	0.0	51.0	0.1	2.1	0.0	0.0	0.0	0.0	-0.0	23.2	20.2
100	705198.40	5159140.67	2.40	0	500	78.8	75.8	0.0	0.0	51.0	0.2	0.8	0.0	0.0	0.0	0.0	-0.0	26.8	23.8
101	705198.40	5159140.67	2.40	0	1000	78.0	75.0	0.0	0.0	51.0	0.4	-1.6	0.0	0.0	0.0	0.0	-0.0	28.3	25.2
102	705198.40	5159140.67	2.40	0	2000	76.2	73.2	0.0	0.0	51.0	1.0	-2.0	0.0	0.0	0.0	0.0	-0.0	26.2	23.2
103	705198.40	5159140.67	2.40	0	4000	69.0	66.0	0.0	0.0	51.0	3.3	-2.0	0.0	0.0	0.0	0.0	-0.0	16.7	13.7
104	705198.40	5159140.67	2.40	0	8000	59.9	56.9	0.0	0.0	51.0	11.7	-2.0	0.0	0.0	0.0	0.0	-0.0	-0.8	-3.8
105	705101.81	5159069.50	2.40	0	63	53.4	50.4	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	8.4	5.3
106	705101.81	5159069.50	2.40	0	125	67.5	64.5	0.0	0.0	48.1	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	18.2	15.2
107	705101.81	5159069.50	2.40	0	250	74.0	71.0	0.0	0.0	48.1	0.1	8.3	0.0	0.0	0.0	0.0	-0.0	17.6	14.6
108	705101.81	5159069.50	2.40	0	500	76.4	73.4	0.0	0.0	48.1	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	24.1	21.1
109	705101.81	5159069.50	2.40	0	1000	75.6	72.6	0.0	0.0	48.1	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	27.1	24.0
110	705101.81	5159069.50	2.40	0	2000	73.8	70.8	0.0	0.0	48.1	0.7	-0.3	0.0	0.0	0.0	0.0	-0.0	25.3	22.3
111	705101.81	5159069.50	2.40	0	4000	66.6	63.6	0.0	0.0	48.1	2.3	-0.3	0.0	0.0	0.0	0.0	-0.0	16.5	13.5
112	705101.81	5159069.50	2.40	0	8000	57.5	54.5	0.0	0.0	48.1	8.3	-0.3	0.0	0.0	0.0	0.0	-0.0	1.4	-1.6
113	705125.49	5159173.28	2.40	0	63	58.2	55.1	0.0	0.0	53.6	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	7.9	4.9
114	705125.49	5159173.28	2.40	0	125	72.3	69.2	0.0	0.0	53.6	0.1	-2.0	0.0	0.0	0.0	0.0	-0.0	20.5	17.5
115	705125.49	5159173.28	2.40	0	250	78.8	75.7	0.0	0.0	53.6	0.1	1.5	0.0	0.0	0.0	0.0	-0.0	23.5	20.5
116	705125.49	5159173.28	2.40	0	500	81.2	78.1	0.0	0.0	53.6	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	26.9	23.9
117	705125.49	5159173.28	2.40	0	1000	80.4	77.3	0.0	0.0	53.6	0.5	-2.1	0.0	0.0	0.0	0.0	-0.0	28.4	25.4
118	705125.49	5159173.28	2.40	0	2000	78.6	75.5	0.0	0.0	53.6	1.3	-2.5	0.0	0.0	0.0	0.0	-0.0	26.1	23.1
119	705125.49	5159173.28	2.40	0	4000	71.4	68.3	0.0	0.0	53.6	4.4	-2.5	0.0	0.0	0.0	0.0	-0.0	15.8	12.8
120	705125.49	5159173.28	2.40	0	8000	62.3	59.2	0.0	0.0	53.6	15.8	-2.5	0.0	0.0	0.0	0.0	-0.0	-4.7	-7.7
121	705087.12	5159095.37	2.40	0	63	54.2	51.2	0.0	0.0	50.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.6	3.6
122	705087.12	5159095.37	2.40	0	125	68.3	65.3	0.0	0.0	50.6	0.0	0.1	0.0	0.0	0.0	0.0	-0.0	17.6	14.6
123	705087.12	5159095.37	2.40	0	250	74.8	71.8	0.0	0.0	50.6	0.1	6.3	0.0	0.0	0.0	0.0	-0.0	17.8	14.8
124	705087.12	5159095.37	2.40	0	500	77.2	74.2	0.0	0.0	50.6	0.2	3.4	0.0	0.0	0.0	0.0	-0.0	23.0	20.0
125	705087.12	5159095.37	2.40	0	1000	76.4	73.4	0.0	0.0	50.6	0.4	-0.5	0.0	0.0	0.0	0.0	-0.0	25.9	22.9
126	705087.12	5159095.37	2.40	0	2000	74.6	71.6	0.0	0.0	50.6	0.9	-1.0	0.0	0.0	0.0	0.0	-0.0	24.1	21.1
127	705087.12	5159095.37	2.40	0	4000	67.4	64.4	0.0	0.0	50.6	3.1	-1.0	0.0	0.0	0.0	0.0	-0.0	14.7	11.7
128	705087.12	5159095.37	2.40	0	8000	58.3	55.3	0.0	0.0	50.6	11.2	-1.0	0.0	0.0	0.0	0.0	-0.0	-2.5	-5.5
129	705073.53	5159124.33	2.40	0	63	50.1	47.1	0.0	0.0	52.9	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	0.4	-2.6
130	705073.53	5159124.33	2.40	0	125	64.2	61.2	0.0	0.0	52.9	0.1	-1.0	0.0	0.0	0.0	0.0	-0.0	12.3	9.3
131	705073.53	5159124.33	2.40	0	250	70.7	67.7	0.0	0.0	52.9	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	13.6	10.5
132	705073.53	5159124.33	2.40	0	500	73.1	70.1	0.0	0.0	52.9	0.2	2.4	0.0	0.0	0.0	0.0	-0.0	17.6	14.6
133	705073.53	5159124.33	2.40	0	1000	72.3	69.3	0.0	0.0	52.9	0.5	-1.2	0.0	0.0	0.0	0.0	-0.0	20.2	17.2
134	705073.53	5159124.33	2.40	0	2000	70.5	67.5	0.0	0.0	52.9	1.2	-1.8	0.0	0.0	0.0	0.0	-0.0	18.2	15.2
135	705073.53	5159124.33	2.40	0	4000	63.3	60.3	0.0	0.0	52.9	4.1	-1.8	0.0	0.0	0.0	0.0	-0.0	8.2	5.1
136	705073.53	5159124.33	2.40	0	8000	54.2	51.2	0.0	0.0	52.9	14.5	-1.8	0.0	0.0	0.0	0.0	-0.0	-11.4	-14.4
137	705072.53	5159141.64	2.40	0	63	55.4	52.4	0.0	0.0	53.7	0.0	-3.4	0.0	0.0	4.7	0.0	-0.0	0.4	-2.6
138	705072.53	5159141.64	2.40	0	125	69.5	66.5	0.0	0.0	53.7	0.1	-1.5	0.0	0.0	6.9	0.0	-0.0	10.3	7.3
139	705072.53	5159141.64	2.40	0	250	76.0	73.0	0.0	0.0	53.7	0.1	3.1	0.0	0.0	8.0	0.0	-0.0	11.0	8.0
140	705072.53	5159141.64	2.40	0	500	78.4	75.4	0.0	0.0	53.7	0.3	1.6	0.0	0.0	12.2	0.0	-0.0	10.7	7.7
141	705072.53	5159141.64	2.40	0	1000	77.6	74.6	0.0	0.0	53.7	0.5	-1.7	0.0	0.0	16.0	0.0	-0.0	9.1	6.1
142	705072.53	5159141.64	2.40	0	2000	75.8	72.8	0.0	0.0	53.7	1.3	-2.2	0.0	0.0	19.0	0.0	-0.0	4.0	1.0
143	705072.53	5159141.64	2.40	0	4000	68.6	65.6	0.0	0.0	53.7	4.5	-2.2	0.0	0.0	21.9	0.0	-0.0	-9.2	-12.2
144	705072.53	5159141.64	2.40	0	8000	59.5	56.5	0.0	0.0	53.7	15.9	-2.2	0.0	0.0	23.1	0.0	-0.0	-31.1	-34.1
145	705188.40	5159114.51	2.40	0	63	51.4	48.4	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.2	3.2

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
146	705188.40	5159114.51	2.40	0	125	65.5	62.5	0.0	0.0	48.1	0.0	-0.6	0.0	0.0	0.0	0.0	-0.0	17.9	14.9
147	705188.40	5159114.51	2.40	0	250	72.0	69.0	0.0	0.0	48.1	0.1	3.6	0.0	0.0	0.0	0.0	-0.0	20.1	17.1
148	705188.40	5159114.51	2.40	0	500	74.4	71.4	0.0	0.0	48.1	0.1	1.3	0.0	0.0	0.0	0.0	-0.0	24.8	21.8
149	705188.40	5159114.51	2.40	0	1000	73.6	70.6	0.0	0.0	48.1	0.3	-1.1	0.0	0.0	0.0	0.0	-0.0	26.3	23.3
150	705188.40	5159114.51	2.40	0	2000	71.8	68.8	0.0	0.0	48.1	0.7	-1.4	0.0	0.0	0.0	0.0	-0.0	24.4	21.4
151	705188.40	5159114.51	2.40	0	4000	64.6	61.6	0.0	0.0	48.1	2.4	-1.4	0.0	0.0	0.0	0.0	-0.0	15.5	12.5
152	705188.40	5159114.51	2.40	0	8000	55.5	52.5	0.0	0.0	48.1	8.4	-1.4	0.0	0.0	0.0	0.0	-0.0	0.4	-2.7
153	705097.90	5159083.26	2.40	0	63	52.0	49.0	0.0	0.0	49.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	5.8	2.8
154	705097.90	5159083.26	2.40	0	125	66.1	63.1	0.0	0.0	49.1	0.0	0.6	0.0	0.0	0.0	0.0	-0.0	16.3	13.3
155	705097.90	5159083.26	2.40	0	250	72.6	69.6	0.0	0.0	49.1	0.1	7.1	0.0	0.0	0.0	0.0	-0.0	16.2	13.2
156	705097.90	5159083.26	2.40	0	500	75.0	72.0	0.0	0.0	49.1	0.2	3.6	0.0	0.0	0.0	0.0	-0.0	22.1	19.1
157	705097.90	5159083.26	2.40	0	1000	74.2	71.2	0.0	0.0	49.1	0.3	-0.2	0.0	0.0	0.0	0.0	-0.0	24.9	21.9
158	705097.90	5159083.26	2.40	0	2000	72.4	69.4	0.0	0.0	49.1	0.8	-0.7	0.0	0.0	0.0	0.0	-0.0	23.2	20.1
159	705097.90	5159083.26	2.40	0	4000	65.2	62.2	0.0	0.0	49.1	2.6	-0.7	0.0	0.0	0.0	0.0	-0.0	14.1	11.1
160	705097.90	5159083.26	2.40	0	8000	56.1	53.1	0.0	0.0	49.1	9.4	-0.7	0.0	0.0	0.0	0.0	-0.0	-1.8	-4.8
161	705166.74	5159174.60	2.40	0	63	56.1	53.1	0.0	0.0	53.2	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	6.2	3.2
162	705166.74	5159174.60	2.40	0	125	70.2	67.2	0.0	0.0	53.2	0.1	-1.8	0.0	0.0	0.0	0.0	-0.0	18.8	15.8
163	705166.74	5159174.60	2.40	0	250	76.7	73.7	0.0	0.0	53.2	0.1	1.7	0.0	0.0	0.0	0.0	-0.0	21.7	18.7
164	705166.74	5159174.60	2.40	0	500	79.1	76.1	0.0	0.0	53.2	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	25.2	22.2
165	705166.74	5159174.60	2.40	0	1000	78.3	75.3	0.0	0.0	53.2	0.5	-2.0	0.0	0.0	0.0	0.0	-0.0	26.6	23.6
166	705166.74	5159174.60	2.40	0	2000	76.5	73.5	0.0	0.0	53.2	1.3	-2.3	0.0	0.0	0.0	0.0	-0.0	24.4	21.4
167	705166.74	5159174.60	2.40	0	4000	69.3	66.3	0.0	0.0	53.2	4.2	-2.3	0.0	0.0	0.0	0.0	-0.0	14.2	11.2
168	705166.74	5159174.60	2.40	0	8000	60.2	57.2	0.0	0.0	53.2	15.1	-2.3	0.0	0.0	0.0	0.0	-0.0	-5.8	-8.8
169	705197.59	5159123.62	2.40	0	63	48.9	45.9	0.0	0.0	49.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.5	-0.6
170	705197.59	5159123.62	2.40	0	125	63.0	60.0	0.0	0.0	49.4	0.0	-0.9	0.0	0.0	0.0	0.0	-0.0	14.4	11.4
171	705197.59	5159123.62	2.40	0	250	69.5	66.5	0.0	0.0	49.4	0.1	3.3	0.0	0.0	0.0	0.0	-0.0	16.7	13.7
172	705197.59	5159123.62	2.40	0	500	71.9	68.9	0.0	0.0	49.4	0.2	1.3	0.0	0.0	0.0	0.0	-0.0	21.0	18.0
173	705197.59	5159123.62	2.40	0	1000	71.1	68.1	0.0	0.0	49.4	0.3	-1.3	0.0	0.0	0.0	0.0	-0.0	22.6	19.6
174	705197.59	5159123.62	2.40	0	2000	69.3	66.3	0.0	0.0	49.4	0.8	-1.6	0.0	0.0	0.0	0.0	-0.0	20.7	17.7
175	705197.59	5159123.62	2.40	0	4000	62.1	59.1	0.0	0.0	49.4	2.7	-1.6	0.0	0.0	0.0	0.0	-0.0	11.5	8.5
176	705197.59	5159123.62	2.40	0	8000	53.0	50.0	0.0	0.0	49.4	9.8	-1.6	0.0	0.0	0.0	0.0	-0.0	-4.6	-7.6
177	705194.31	5159119.33	2.40	0	63	47.9	44.9	0.0	0.0	48.9	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.1	-1.0
178	705194.31	5159119.33	2.40	0	125	62.0	59.0	0.0	0.0	48.9	0.0	-0.8	0.0	0.0	0.0	0.0	-0.0	13.9	10.9
179	705194.31	5159119.33	2.40	0	250	68.5	65.5	0.0	0.0	48.9	0.1	3.4	0.0	0.0	0.0	0.0	-0.0	16.2	13.1
180	705194.31	5159119.33	2.40	0	500	70.9	67.9	0.0	0.0	48.9	0.2	1.3	0.0	0.0	0.0	0.0	-0.0	20.6	17.6
181	705194.31	5159119.33	2.40	0	1000	70.1	67.1	0.0	0.0	48.9	0.3	-1.2	0.0	0.0	0.0	0.0	-0.0	22.2	19.2
182	705194.31	5159119.33	2.40	0	2000	68.3	65.3	0.0	0.0	48.9	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	20.2	17.2
183	705194.31	5159119.33	2.40	0	4000	61.1	58.1	0.0	0.0	48.9	2.6	-1.5	0.0	0.0	0.0	0.0	-0.0	11.2	8.2
184	705194.31	5159119.33	2.40	0	8000	52.0	49.0	0.0	0.0	48.9	9.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-4.5	-7.5
185	705196.13	5159166.65	2.40	0	63	54.7	51.7	0.0	0.0	52.9	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	5.0	1.9
186	705196.13	5159166.65	2.40	0	125	68.8	65.8	0.0	0.0	52.9	0.1	-1.7	0.0	0.0	0.0	0.0	-0.0	17.5	14.5
187	705196.13	5159166.65	2.40	0	250	75.3	72.3	0.0	0.0	52.9	0.1	1.9	0.0	0.0	0.0	0.0	-0.0	20.4	17.4
188	705196.13	5159166.65	2.40	0	500	77.7	74.7	0.0	0.0	52.9	0.2	0.7	0.0	0.0	0.0	0.0	-0.0	23.9	20.9
189	705196.13	5159166.65	2.40	0	1000	76.9	73.9	0.0	0.0	52.9	0.5	-1.8	0.0	0.0	0.0	0.0	-0.0	25.4	22.4
190	705196.13	5159166.65	2.40	0	2000	75.1	72.1	0.0	0.0	52.9	1.2	-2.2	0.0	0.0	0.0	0.0	-0.0	23.2	20.2
191	705196.13	5159166.65	2.40	0	4000	67.9	64.9	0.0	0.0	52.9	4.1	-2.2	0.0	0.0	0.0	0.0	-0.0	13.1	10.1
192	705196.13	5159166.65	2.40	0	8000	58.8	55.8	0.0	0.0	52.9	14.5	-2.2	0.0	0.0	0.0	0.0	-0.0	-6.4	-9.4
193	705076.60	5159111.30	2.40	0	63	53.9	50.9	0.0	0.0	52.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.8	1.8
194	705076.60	5159111.30	2.40	0	125	68.0	65.0	0.0	0.0	52.1	0.1	-0.6	0.0	0.0	0.0	0.0	-0.0	16.4	13.4
195	705076.60	5159111.30	2.40	0	250	74.5	71.5	0.0	0.0	52.1	0.1	5.1	0.0	0.0	0.0	0.0	-0.0	17.2	14.2
196	705076.60	5159111.30	2.40	0	500	76.9	73.9	0.0	0.0	52.1	0.2	3.0	0.0	0.0	0.0	0.0	-0.0	21.6	18.6
197	705076.60	5159111.30	2.40	0	1000	76.1	73.1	0.0	0.0	52.1	0.4	-0.8	0.0	0.0	0.0	0.0	-0.0	24.4	21.4
198	705076.60	5159111.30	2.40	0	2000	74.3	71.3	0.0	0.0	52.1	1.1	-1.4	0.0	0.0	0.0	0.0	-0.0	22.5	19.5
199	705076.60	5159111.30	2.40	0	4000	67.1	64.1	0.0	0.0	52.1	3.7	-1.4	0.0	0.0	0.0	0.0	-0.0	12.7	9.7
200	705076.60	5159111.30	2.40	0	8000	58.0	55.0	0.0	0.0	52.1	13.3	-1.4	0.0	0.0	0.0	0.0	-0.0	-5.9	-9.0
201	705195.21	5159167.69	2.40	0	63	54.2	51.2	0.0	0.0	52.9	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	4.5	1.5
202	705195.21	5159167.69	2.40	0	125	68.3	65.3	0.0	0.0	52.9	0.1	-1.7	0.0	0.0	0.0	0.0	-0.0	17.1	14.0
203	705195.21	5159167.69	2.40	0	250	74.8	71.8	0.0	0.0	52.9	0.1	1.9	0.0	0.0	0.0	0.0	-0.0	19.9	16.9
204	705195.21	5159167.69	2.40	0	500	77.2	74.2	0.0	0.0	52.9	0.2	0.7	0.0	0.0	0.0	0.0	-0.0	23.4	20.4
205	705195.21	5159167.69	2.40	0	1000	76.4	73.4	0.0	0.0	52.9	0.5	-1.9	0.0	0.0	0.0	0.0	-0.0	24.9	21.9
206	705195.21	5159167.69	2.40	0	2000	74.6	71.6	0.0	0.0	52.9	1.2	-2.2	0.0	0.0	0.0	0.0	-0.0	22.7	19.7
207	705195.21	5159167.69	2.40	0	4000	67.4	64.4	0.0	0.0	52.9	4.1	-2.2	0.0	0.0	0.0	0.0	-0.0	12.6	9.6
208	705195.21	5159167.69	2.40	0	8000	58.3	55.3	0.0	0.0	52.9	14.6	-2.2	0.0	0.0	0.0	0.0	-0.0	-7.0	-10.0

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
209	705113.64	5159078.33	2.40	0	63	48.8	45.8	0.0	0.0	47.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.6	1.6
210	705113.64	5159078.33	2.40	0	125	62.9	59.9	0.0	0.0	47.2	0.0	0.9	0.0	0.0	0.0	0.0	-0.0	14.8	11.8
211	705113.64	5159078.33	2.40	0	250	69.4	66.4	0.0	0.0	47.2	0.1	7.4	0.0	0.0	0.0	0.0	-0.0	14.7	11.7
212	705113.64	5159078.33	2.40	0	500	71.8	68.8	0.0	0.0	47.2	0.1	3.7	0.0	0.0	0.0	0.0	-0.0	20.8	17.8
213	705113.64	5159078.33	2.40	0	1000	71.0	68.0	0.0	0.0	47.2	0.2	0.1	0.0	0.0	0.0	0.0	-0.0	23.5	20.5
214	705113.64	5159078.33	2.40	0	2000	69.2	66.2	0.0	0.0	47.2	0.6	-0.4	0.0	0.0	0.0	0.0	-0.0	21.8	18.8
215	705113.64	5159078.33	2.40	0	4000	62.0	59.0	0.0	0.0	47.2	2.1	-0.4	0.0	0.0	0.0	0.0	-0.0	13.1	10.1
216	705113.64	5159078.33	2.40	0	8000	52.9	49.9	0.0	0.0	47.2	7.5	-0.4	0.0	0.0	0.0	0.0	-0.0	-1.4	-4.4
217	705110.15	5159073.75	2.40	0	63	48.8	45.8	0.0	0.0	47.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.5	1.5
218	705110.15	5159073.75	2.40	0	125	62.9	59.9	0.0	0.0	47.3	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	14.4	11.4
219	705110.15	5159073.75	2.40	0	250	69.4	66.4	0.0	0.0	47.3	0.1	8.0	0.0	0.0	0.0	0.0	-0.0	14.1	11.1
220	705110.15	5159073.75	2.40	0	500	71.8	68.8	0.0	0.0	47.3	0.1	3.9	0.0	0.0	0.0	0.0	-0.0	20.4	17.4
221	705110.15	5159073.75	2.40	0	1000	71.0	68.0	0.0	0.0	47.3	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	23.2	20.2
222	705110.15	5159073.75	2.40	0	2000	69.2	66.2	0.0	0.0	47.3	0.6	-0.2	0.0	0.0	0.0	0.0	-0.0	21.5	18.5
223	705110.15	5159073.75	2.40	0	4000	62.0	59.0	0.0	0.0	47.3	2.1	-0.2	0.0	0.0	0.0	0.0	-0.0	12.8	9.8
224	705110.15	5159073.75	2.40	0	8000	52.9	49.9	0.0	0.0	47.3	7.6	-0.2	0.0	0.0	0.0	0.0	-0.0	-1.8	-4.8
225	705194.62	5159164.10	2.40	0	63	52.4	49.4	0.0	0.0	52.7	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	2.8	-0.2
226	705194.62	5159164.10	2.40	0	125	66.5	63.5	0.0	0.0	52.7	0.1	-1.6	0.0	0.0	0.0	0.0	-0.0	15.4	12.4
227	705194.62	5159164.10	2.40	0	250	73.0	70.0	0.0	0.0	52.7	0.1	1.9	0.0	0.0	0.0	0.0	-0.0	18.3	15.3
228	705194.62	5159164.10	2.40	0	500	75.4	72.4	0.0	0.0	52.7	0.2	0.7	0.0	0.0	0.0	0.0	-0.0	21.8	18.7
229	705194.62	5159164.10	2.40	0	1000	74.6	71.6	0.0	0.0	52.7	0.4	-1.8	0.0	0.0	0.0	0.0	-0.0	23.3	20.2
230	705194.62	5159164.10	2.40	0	2000	72.8	69.8	0.0	0.0	52.7	1.2	-2.2	0.0	0.0	0.0	0.0	-0.0	21.1	18.1
231	705194.62	5159164.10	2.40	0	4000	65.6	62.6	0.0	0.0	52.7	4.0	-2.2	0.0	0.0	0.0	0.0	-0.0	11.1	8.1
232	705194.62	5159164.10	2.40	0	8000	56.5	53.5	0.0	0.0	52.7	14.2	-2.2	0.0	0.0	0.0	0.0	-0.0	-8.2	-11.2
233	705085.27	5159171.35	2.40	0	63	45.3	42.3	0.0	0.0	54.6	0.0	-3.7	0.0	0.0	2.5	0.0	-0.0	-8.1	-11.1
234	705085.27	5159171.35	2.40	0	125	59.4	56.4	0.0	0.0	54.6	0.1	-2.0	0.0	0.0	3.1	0.0	-0.0	3.6	0.6
235	705085.27	5159171.35	2.40	0	250	65.9	62.9	0.0	0.0	54.6	0.2	2.0	0.0	0.0	3.3	0.0	-0.0	5.9	2.9
236	705085.27	5159171.35	2.40	0	500	68.3	65.3	0.0	0.0	54.6	0.3	0.6	0.0	0.0	4.8	0.0	-0.0	8.0	5.0
237	705085.27	5159171.35	2.40	0	1000	67.5	64.5	0.0	0.0	54.6	0.6	-2.2	0.0	0.0	6.1	0.0	-0.0	8.5	5.5
238	705085.27	5159171.35	2.40	0	2000	65.7	62.7	0.0	0.0	54.6	1.5	-2.6	0.0	0.0	7.6	0.0	-0.0	4.7	1.7
239	705085.27	5159171.35	2.40	0	4000	58.5	55.5	0.0	0.0	54.6	5.0	-2.6	0.0	0.0	9.4	0.0	-0.0	-7.8	-10.8
240	705085.27	5159171.35	2.40	0	8000	49.4	46.4	0.0	0.0	54.6	17.7	-2.6	0.0	0.0	11.6	0.0	-0.0	-31.8	-34.8
241	705093.38	5159171.92	2.40	0	63	52.5	49.4	0.0	0.0	54.4	0.0	-3.6	0.0	0.0	0.0	0.0	-0.0	1.7	-1.3
242	705093.38	5159171.92	2.40	0	125	66.6	63.5	0.0	0.0	54.4	0.1	-2.0	0.0	0.0	0.0	0.0	-0.0	14.1	11.1
243	705093.38	5159171.92	2.40	0	250	73.1	70.0	0.0	0.0	54.4	0.2	1.9	0.0	0.0	0.0	0.0	-0.0	16.7	13.7
244	705093.38	5159171.92	2.40	0	500	75.5	72.4	0.0	0.0	54.4	0.3	0.6	0.0	0.0	0.0	0.0	-0.0	20.2	17.2
245	705093.38	5159171.92	2.40	0	1000	74.7	71.6	0.0	0.0	54.4	0.5	-2.2	0.0	0.0	0.0	0.0	-0.0	21.9	18.9
246	705093.38	5159171.92	2.40	0	2000	72.9	69.8	0.0	0.0	54.4	1.4	-2.6	0.0	0.0	0.0	0.0	-0.0	19.7	16.7
247	705093.38	5159171.92	2.40	0	4000	65.7	62.6	0.0	0.0	54.4	4.8	-2.6	0.0	0.0	0.0	0.0	-0.0	9.1	6.0
248	705093.38	5159171.92	2.40	0	8000	56.6	53.5	0.0	0.0	54.4	17.2	-2.6	0.0	0.0	0.0	0.0	-0.0	-12.4	-15.5
249	705186.75	5159174.56	2.40	0	63	50.2	47.2	0.0	0.0	53.3	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	0.2	-2.8
250	705186.75	5159174.56	2.40	0	125	64.3	61.3	0.0	0.0	53.3	0.1	-1.8	0.0	0.0	0.0	0.0	-0.0	12.8	9.8
251	705186.75	5159174.56	2.40	0	250	70.8	67.8	0.0	0.0	53.3	0.1	1.7	0.0	0.0	0.0	0.0	-0.0	15.7	12.7
252	705186.75	5159174.56	2.40	0	500	73.2	70.2	0.0	0.0	53.3	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	19.2	16.1
253	705186.75	5159174.56	2.40	0	1000	72.4	69.4	0.0	0.0	53.3	0.5	-2.0	0.0	0.0	0.0	0.0	-0.0	20.6	17.6
254	705186.75	5159174.56	2.40	0	2000	70.6	67.6	0.0	0.0	53.3	1.3	-2.4	0.0	0.0	0.0	0.0	-0.0	18.4	15.4
255	705186.75	5159174.56	2.40	0	4000	63.4	60.4	0.0	0.0	53.3	4.3	-2.4	0.0	0.0	0.0	0.0	-0.0	8.2	5.2
256	705186.75	5159174.56	2.40	0	8000	54.3	51.3	0.0	0.0	53.3	15.3	-2.4	0.0	0.0	0.0	0.0	-0.0	-11.9	-14.9
257	705080.28	5159169.21	2.40	0	63	50.4	47.3	0.0	0.0	54.7	0.0	-3.7	0.0	0.0	3.9	0.0	-0.0	-4.5	-7.5
258	705080.28	5159169.21	2.40	0	125	64.5	61.4	0.0	0.0	54.7	0.1	-2.0	0.0	0.0	5.8	0.0	-0.0	5.9	2.9
259	705080.28	5159169.21	2.40	0	250	71.0	67.9	0.0	0.0	54.7	0.2	2.1	0.0	0.0	7.5	0.0	-0.0	6.6	3.5
260	705080.28	5159169.21	2.40	0	500	73.4	70.3	0.0	0.0	54.7	0.3	0.7	0.0	0.0	11.2	0.0	-0.0	6.4	3.4
261	705080.28	5159169.21	2.40	0	1000	72.6	69.5	0.0	0.0	54.7	0.6	-2.2	0.0	0.0	14.5	0.0	-0.0	5.0	2.0
262	705080.28	5159169.21	2.40	0	2000	70.8	67.7	0.0	0.0	54.7	1.5	-2.6	0.0	0.0	17.4	0.0	-0.0	-0.2	-3.2
263	705080.28	5159169.21	2.40	0	4000	63.6	60.5	0.0	0.0	54.7	5.0	-2.6	0.0	0.0	20.4	0.0	-0.0	-13.8	-16.9
264	705080.28	5159169.21	2.40	0	8000	54.5	51.4	0.0	0.0	54.7	17.8	-2.6	0.0	0.0	22.1	0.0	-0.0	-37.5	-40.5
265	705072.44	5159158.62	2.40	0	63	49.8	46.8	0.0	0.0	54.4	0.0	-3.6	0.0	0.0	5.5	0.0	-0.0	-6.5	-9.6
266	705072.44	5159158.62	2.40	0	125	63.9	60.9	0.0	0.0	54.4	0.1	-1.8	0.0	0.0	8.1	0.0	-0.0	3.1	0.1
267	705072.44	5159158.62	2.40	0	250	70.4	67.4	0.0	0.0	54.4	0.2	2.5	0.0	0.0	9.3	0.0	-0.0	3.9	0.9
268	705072.44	5159158.62	2.40	0	500	72.8	69.8	0.0	0.0	54.4	0.3	1.1	0.0	0.0	13.5	0.0	-0.0	3.5	0.5
269	705072.44	5159158.62	2.40	0	1000	72.0	69.0	0.0	0.0	54.4	0.5	-2.0	0.0	0.0	17.2	0.0	-0.0	1.8	-1.2
270	705072.44	5159158.62	2.40	0	2000	70.2	67.2	0.0	0.0	54.4	1.4	-2.5	0.0	0.0	20.2	0.0	-0.0	-3.4	-6.4
271	705072.44	5159158.62	2.40	0	4000	63.0	60.0	0.0	0.0	54.4	4.9	-2.5	0.0	0.0	23.2	0.0	-0.0	-17.0	-20.0

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
272	705072.44	5159158.62	2.40	0	8000	53.9	50.9	0.0	0.0	54.4	17.4	-2.5	0.0	0.0	24.0	0.0	-0.0	-39.5	-42.5
273	705192.25	5159172.42	2.40	0	63	47.5	44.5	0.0	0.0	53.2	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	-2.4	-5.5
274	705192.25	5159172.42	2.40	0	125	61.6	58.6	0.0	0.0	53.2	0.1	-1.8	0.0	0.0	0.0	0.0	-0.0	10.1	7.1
275	705192.25	5159172.42	2.40	0	250	68.1	65.1	0.0	0.0	53.2	0.1	1.8	0.0	0.0	0.0	0.0	-0.0	13.0	10.0
276	705192.25	5159172.42	2.40	0	500	70.5	67.5	0.0	0.0	53.2	0.3	0.6	0.0	0.0	0.0	0.0	-0.0	16.5	13.5
277	705192.25	5159172.42	2.40	0	1000	69.7	66.7	0.0	0.0	53.2	0.5	-2.0	0.0	0.0	0.0	0.0	-0.0	18.0	15.0
278	705192.25	5159172.42	2.40	0	2000	67.9	64.9	0.0	0.0	53.2	1.3	-2.3	0.0	0.0	0.0	0.0	-0.0	15.8	12.8
279	705192.25	5159172.42	2.40	0	4000	60.7	57.7	0.0	0.0	53.2	4.2	-2.3	0.0	0.0	0.0	0.0	-0.0	5.6	2.6
280	705192.25	5159172.42	2.40	0	8000	51.6	48.6	0.0	0.0	53.2	15.1	-2.3	0.0	0.0	0.0	0.0	-0.0	-14.4	-17.4
281	705074.86	5159164.71	2.40	0	63	48.9	45.9	0.0	0.0	54.6	0.0	-3.7	0.0	0.0	5.5	0.0	-0.0	-7.6	-10.6
282	705074.86	5159164.71	2.40	0	125	63.0	60.0	0.0	0.0	54.6	0.1	-1.9	0.0	0.0	8.2	0.0	-0.0	2.0	-1.0
283	705074.86	5159164.71	2.40	0	250	69.5	66.5	0.0	0.0	54.6	0.2	2.3	0.0	0.0	9.8	0.0	-0.0	2.6	-0.4
284	705074.86	5159164.71	2.40	0	500	71.9	68.9	0.0	0.0	54.6	0.3	0.9	0.0	0.0	13.8	0.0	-0.0	2.3	-0.8
285	705074.86	5159164.71	2.40	0	1000	71.1	68.1	0.0	0.0	54.6	0.6	-2.1	0.0	0.0	17.4	0.0	-0.0	0.7	-2.3
286	705074.86	5159164.71	2.40	0	2000	69.3	66.3	0.0	0.0	54.6	1.5	-2.6	0.0	0.0	20.3	0.0	-0.0	-4.5	-7.5
287	705074.86	5159164.71	2.40	0	4000	62.1	59.1	0.0	0.0	54.6	5.0	-2.6	0.0	0.0	22.9	0.0	-0.0	-17.8	-20.8
288	705074.86	5159164.71	2.40	0	8000	53.0	50.0	0.0	0.0	54.6	17.8	-2.6	0.0	0.0	23.8	0.0	-0.0	-40.6	-43.6
289	705125.48	5159173.27	2.40	1	1000	78.8	75.8	0.0	0.0	55.1	0.6	-2.2	0.0	0.0	0.0	0.0	1.0	24.4	21.4
290	705125.48	5159173.27	2.40	1	2000	77.0	74.0	0.0	0.0	55.1	1.5	-2.7	0.0	0.0	0.0	0.0	1.0	22.1	19.1
291	705125.48	5159173.27	2.40	1	4000	69.8	66.8	0.0	0.0	55.1	5.2	-2.7	0.0	0.0	0.0	0.0	1.0	11.2	8.2
292	705125.48	5159173.27	2.40	1	8000	60.7	57.7	0.0	0.0	55.1	18.7	-2.7	0.0	0.0	0.0	0.0	1.0	-11.4	-14.4
293	705082.36	5159099.62	2.40	1	500	73.0	70.0	0.0	0.0	52.9	0.2	2.1	0.0	0.0	0.0	0.0	1.0	16.8	13.8
294	705082.36	5159099.62	2.40	1	1000	72.2	69.2	0.0	0.0	52.9	0.5	-1.3	0.0	0.0	0.0	0.0	1.0	19.2	16.2
295	705082.36	5159099.62	2.40	1	2000	70.4	67.4	0.0	0.0	52.9	1.2	-1.9	0.0	0.0	0.0	0.0	1.0	17.2	14.2
296	705082.36	5159099.62	2.40	1	4000	63.2	60.2	0.0	0.0	52.9	4.1	-1.9	0.0	0.0	0.0	0.0	1.0	7.2	4.1
297	705082.36	5159099.62	2.40	1	8000	54.1	51.1	0.0	0.0	52.9	14.5	-1.9	0.0	0.0	0.0	0.0	1.0	-12.4	-15.4
298	705078.80	5159104.31	2.40	1	250	68.1	65.1	0.0	0.0	52.8	0.1	3.5	0.0	0.0	0.0	0.0	1.0	10.7	7.7
299	705078.80	5159104.31	2.40	1	500	70.5	67.5	0.0	0.0	52.8	0.2	1.9	0.0	0.0	0.0	0.0	1.0	14.6	11.6
300	705078.80	5159104.31	2.40	1	1000	69.7	66.7	0.0	0.0	52.8	0.5	-1.4	0.0	0.0	0.0	0.0	1.0	16.9	13.9
301	705078.80	5159104.31	2.40	1	2000	67.9	64.9	0.0	0.0	52.8	1.2	-1.9	0.0	0.0	0.0	0.0	1.0	14.8	11.8
302	705078.80	5159104.31	2.40	1	4000	60.7	57.7	0.0	0.0	52.8	4.0	-1.9	0.0	0.0	0.0	0.0	1.0	4.8	1.8
303	705078.80	5159104.31	2.40	1	8000	51.6	48.6	0.0	0.0	52.8	14.4	-1.9	0.0	0.0	0.0	0.0	1.0	-14.6	-17.6

Line Source, ISO 9613, Name: "9a", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705112.18	5158981.61	2.40	0	63	52.4	-47.6	0.0	0.0	49.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	5.8	-94.2
2	705112.18	5158981.61	2.40	0	125	66.5	-33.5	0.0	0.0	49.6	0.0	1.6	0.0	0.0	0.0	0.0	-0.0	15.2	-84.8
3	705112.18	5158981.61	2.40	0	250	73.0	-27.0	0.0	0.0	49.6	0.1	9.5	0.0	0.0	0.0	0.0	-0.0	13.8	-86.2
4	705112.18	5158981.61	2.40	0	500	75.4	-24.6	0.0	0.0	49.6	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	20.9	-79.1
5	705112.18	5158981.61	2.40	0	1000	74.6	-25.4	0.0	0.0	49.6	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	24.2	-75.8
6	705112.18	5158981.61	2.40	0	2000	72.8	-27.2	0.0	0.0	49.6	0.8	-0.1	0.0	0.0	0.0	0.0	-0.0	22.5	-77.5
7	705112.18	5158981.61	2.40	0	4000	65.6	-34.4	0.0	0.0	49.6	2.8	-0.1	0.0	0.0	0.0	0.0	-0.0	13.3	-86.7
8	705112.18	5158981.61	2.40	0	8000	56.5	-43.5	0.0	0.0	49.6	10.0	-0.1	0.0	0.0	0.0	0.0	-0.0	-3.0	-103.0
9	705110.38	5159008.55	2.40	0	63	52.4	-47.6	0.0	0.0	47.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.6	-92.4
10	705110.38	5159008.55	2.40	0	125	66.5	-33.5	0.0	0.0	47.8	0.0	1.3	0.0	0.0	0.0	0.0	-0.0	17.4	-82.6
11	705110.38	5159008.55	2.40	0	250	73.0	-27.0	0.0	0.0	47.8	0.1	8.5	0.0	0.0	0.0	0.0	-0.0	16.7	-83.3
12	705110.38	5159008.55	2.40	0	500	75.4	-24.6	0.0	0.0	47.8	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	23.3	-76.7
13	705110.38	5159008.55	2.40	0	1000	74.6	-25.4	0.0	0.0	47.8	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	26.2	-73.8
14	705110.38	5159008.55	2.40	0	2000	72.8	-27.2	0.0	0.0	47.8	0.7	-0.2	0.0	0.0	0.0	0.0	-0.0	24.5	-75.5
15	705110.38	5159008.55	2.40	0	4000	65.6	-34.4	0.0	0.0	47.8	2.3	-0.2	0.0	0.0	0.0	0.0	-0.0	15.7	-84.3
16	705110.38	5159008.55	2.40	0	8000	56.5	-43.5	0.0	0.0	47.8	8.1	-0.2	0.0	0.0	0.0	0.0	-0.0	0.8	-99.2
17	705108.58	5159035.49	2.40	0	63	52.4	-47.6	0.0	0.0	46.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	8.7	-91.3
18	705108.58	5159035.49	2.40	0	125	66.5	-33.5	0.0	0.0	46.7	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	18.5	-81.5
19	705108.58	5159035.49	2.40	0	250	73.0	-27.0	0.0	0.0	46.7	0.1	8.0	0.0	0.0	0.0	0.0	-0.0	18.3	-81.8
20	705108.58	5159035.49	2.40	0	500	75.4	-24.6	0.0	0.0	46.7	0.1	3.9	0.0	0.0	0.0	0.0	-0.0	24.6	-75.4
21	705108.58	5159035.49	2.40	0	1000	74.6	-25.4	0.0	0.0	46.7	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	27.4	-72.6
22	705108.58	5159035.49	2.40	0	2000	72.8	-27.2	0.0	0.0	46.7	0.6	-0.2	0.0	0.0	0.0	0.0	-0.0	25.7	-74.3
23	705108.58	5159035.49	2.40	0	4000	65.6	-34.4	0.0	0.0	46.7	2.0	-0.2	0.0	0.0	0.0	0.0	-0.0	17.1	-83.0
24	705108.58	5159035.49	2.40	0	8000	56.5	-43.5	0.0	0.0	46.7	7.1	-0.2	0.0	0.0	0.0	0.0	-0.0	2.8	-97.2
25	705106.78	5159062.42	2.40	0	63	52.4	-47.6	0.0	0.0	47.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	8.2	-91.8
26	705106.78	5159062.42	2.40	0	125	66.5	-33.5	0.0	0.0	47.2	0.0	1.3	0.0	0.0	0.0	0.0	-0.0	18.1	-82.0
27	705106.78	5159062.42	2.40	0	250	73.0	-27.0	0.0	0.0	47.2	0.1	8.1	0.0	0.0	0.0	0.0	-0.0	17.7	-82.3

Line Source, ISO 9613, Name: "9a", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
28	705106.78	5159062.42	2.40	0	500	75.4	-24.6	0.0	0.0	47.2	0.1	3.9	0.0	0.0	0.0	0.0	-0.0	24.2	-75.8
29	705106.78	5159062.42	2.40	0	1000	74.6	-25.4	0.0	0.0	47.2	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	26.9	-73.1
30	705106.78	5159062.42	2.40	0	2000	72.8	-27.2	0.0	0.0	47.2	0.6	-0.2	0.0	0.0	0.0	0.0	-0.0	25.2	-74.8
31	705106.78	5159062.42	2.40	0	4000	65.6	-34.4	0.0	0.0	47.2	2.1	-0.2	0.0	0.0	0.0	0.0	-0.0	16.5	-83.5
32	705106.78	5159062.42	2.40	0	8000	56.5	-43.5	0.0	0.0	47.2	7.5	-0.2	0.0	0.0	0.0	0.0	-0.0	2.0	-98.0
33	705107.85	5159087.88	2.40	0	63	52.0	-48.0	0.0	0.0	48.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.5	-93.5
34	705107.85	5159087.88	2.40	0	125	66.1	-33.9	0.0	0.0	48.4	0.0	0.6	0.0	0.0	0.0	0.0	-0.0	17.0	-83.0
35	705107.85	5159087.88	2.40	0	250	72.6	-27.4	0.0	0.0	48.4	0.1	7.1	0.0	0.0	0.0	0.0	-0.0	16.9	-83.1
36	705107.85	5159087.88	2.40	0	500	75.0	-25.0	0.0	0.0	48.4	0.1	3.6	0.0	0.0	0.0	0.0	-0.0	22.8	-77.2
37	705107.85	5159087.88	2.40	0	1000	74.2	-25.8	0.0	0.0	48.4	0.3	-0.1	0.0	0.0	0.0	0.0	-0.0	25.6	-74.4
38	705107.85	5159087.88	2.40	0	2000	72.4	-27.6	0.0	0.0	48.4	0.7	-0.6	0.0	0.0	0.0	0.0	-0.0	23.8	-76.2
39	705107.85	5159087.88	2.40	0	4000	65.2	-34.8	0.0	0.0	48.4	2.4	-0.6	0.0	0.0	0.0	0.0	-0.0	14.9	-85.1
40	705107.85	5159087.88	2.40	0	8000	56.1	-43.9	0.0	0.0	48.4	8.7	-0.6	0.0	0.0	0.0	0.0	-0.0	-0.5	-100.5
41	705119.53	5159123.60	2.40	0	63	51.8	-48.2	0.0	0.0	50.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.5	-95.5
42	705119.53	5159123.60	2.40	0	125	65.9	-34.1	0.0	0.0	50.3	0.0	-1.1	0.0	0.0	0.0	0.0	-0.0	16.6	-83.4
43	705119.53	5159123.60	2.40	0	250	72.4	-27.6	0.0	0.0	50.3	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	19.0	-81.0
44	705119.53	5159123.60	2.40	0	500	74.8	-25.2	0.0	0.0	50.3	0.2	1.3	0.0	0.0	0.0	0.0	-0.0	23.0	-77.0
45	705119.53	5159123.60	2.40	0	1000	74.0	-26.0	0.0	0.0	50.3	0.3	-1.4	0.0	0.0	0.0	0.0	-0.0	24.7	-75.3
46	705119.53	5159123.60	2.40	0	2000	72.2	-27.8	0.0	0.0	50.3	0.9	-1.7	0.0	0.0	0.0	0.0	-0.0	22.7	-77.3
47	705119.53	5159123.60	2.40	0	4000	65.0	-35.0	0.0	0.0	50.3	3.0	-1.7	0.0	0.0	0.0	0.0	-0.0	13.4	-86.6
48	705119.53	5159123.60	2.40	0	8000	55.9	-44.1	0.0	0.0	50.3	10.8	-1.7	0.0	0.0	0.0	0.0	-0.0	-3.5	-103.5
49	705118.67	5159147.36	2.40	0	63	51.9	-48.1	0.0	0.0	52.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.8	-97.2
50	705118.67	5159147.36	2.40	0	125	66.0	-34.0	0.0	0.0	52.1	0.1	-1.5	0.0	0.0	0.0	0.0	-0.0	15.4	-84.6
51	705118.67	5159147.36	2.40	0	250	72.5	-27.5	0.0	0.0	52.1	0.1	2.0	0.0	0.0	0.0	0.0	-0.0	18.3	-81.7
52	705118.67	5159147.36	2.40	0	500	74.9	-25.1	0.0	0.0	52.1	0.2	0.8	0.0	0.0	0.0	0.0	-0.0	21.8	-78.3
53	705118.67	5159147.36	2.40	0	1000	74.1	-25.9	0.0	0.0	52.1	0.4	-1.7	0.0	0.0	0.0	0.0	-0.0	23.3	-76.8
54	705118.67	5159147.36	2.40	0	2000	72.3	-27.7	0.0	0.0	52.1	1.1	-2.0	0.0	0.0	0.0	0.0	-0.0	21.2	-78.8
55	705118.67	5159147.36	2.40	0	4000	65.1	-34.9	0.0	0.0	52.1	3.7	-2.0	0.0	0.0	0.0	0.0	-0.0	11.3	-88.7
56	705118.67	5159147.36	2.40	0	8000	56.0	-44.0	0.0	0.0	52.1	13.3	-2.0	0.0	0.0	0.0	0.0	-0.0	-7.3	-107.3
57	705112.95	5159102.83	2.40	0	63	47.5	-52.5	0.0	0.0	49.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	1.4	-98.6
58	705112.95	5159102.83	2.40	0	125	61.6	-38.4	0.0	0.0	49.1	0.0	-0.3	0.0	0.0	0.0	0.0	-0.0	12.7	-87.3
59	705112.95	5159102.83	2.40	0	250	68.1	-31.9	0.0	0.0	49.1	0.1	4.9	0.0	0.0	0.0	0.0	-0.0	14.0	-86.0
60	705112.95	5159102.83	2.40	0	500	70.5	-29.5	0.0	0.0	49.1	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	18.9	-81.1
61	705112.95	5159102.83	2.40	0	1000	69.7	-30.3	0.0	0.0	49.1	0.3	-0.8	0.0	0.0	0.0	0.0	-0.0	21.1	-79.0
62	705112.95	5159102.83	2.40	0	2000	67.9	-32.1	0.0	0.0	49.1	0.8	-1.2	0.0	0.0	0.0	0.0	-0.0	19.2	-80.8
63	705112.95	5159102.83	2.40	0	4000	60.7	-39.3	0.0	0.0	49.1	2.6	-1.2	0.0	0.0	0.0	0.0	-0.0	10.1	-89.9
64	705112.95	5159102.83	2.40	0	8000	51.6	-48.4	0.0	0.0	49.1	9.4	-1.2	0.0	0.0	0.0	0.0	-0.0	-5.7	-105.7
65	705117.70	5159108.84	2.40	0	63	46.5	-53.5	0.0	0.0	49.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	0.3	-99.8
66	705117.70	5159108.84	2.40	0	125	60.6	-39.4	0.0	0.0	49.2	0.0	-0.5	0.0	0.0	0.0	0.0	-0.0	11.8	-88.2
67	705117.70	5159108.84	2.40	0	250	67.1	-32.9	0.0	0.0	49.2	0.1	4.3	0.0	0.0	0.0	0.0	-0.0	13.5	-86.5
68	705117.70	5159108.84	2.40	0	500	69.5	-30.5	0.0	0.0	49.2	0.2	1.9	0.0	0.0	0.0	0.0	-0.0	18.2	-81.8
69	705117.70	5159108.84	2.40	0	1000	68.7	-31.3	0.0	0.0	49.2	0.3	-1.0	0.0	0.0	0.0	0.0	-0.0	20.1	-79.9
70	705117.70	5159108.84	2.40	0	2000	66.9	-33.1	0.0	0.0	49.2	0.8	-1.4	0.0	0.0	0.0	0.0	-0.0	18.2	-81.8
71	705117.70	5159108.84	2.40	0	4000	59.7	-40.3	0.0	0.0	49.2	2.7	-1.4	0.0	0.0	0.0	0.0	-0.0	9.1	-90.9
72	705117.70	5159108.84	2.40	0	8000	50.6	-49.4	0.0	0.0	49.2	9.5	-1.4	0.0	0.0	0.0	0.0	-0.0	-6.8	-106.8
73	705099.91	5159167.81	2.40	0	63	48.4	-51.6	0.0	0.0	54.0	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	-2.1	-102.1
74	705099.91	5159167.81	2.40	0	125	62.5	-37.5	0.0	0.0	54.0	0.1	-1.9	0.0	0.0	0.0	0.0	-0.0	10.4	-89.6
75	705099.91	5159167.81	2.40	0	250	69.0	-31.0	0.0	0.0	54.0	0.2	1.9	0.0	0.0	0.0	0.0	-0.0	13.0	-87.0
76	705099.91	5159167.81	2.40	0	500	71.4	-28.6	0.0	0.0	54.0	0.3	0.6	0.0	0.0	0.0	0.0	-0.0	16.6	-83.4
77	705099.91	5159167.81	2.40	0	1000	70.6	-29.4	0.0	0.0	54.0	0.5	-2.1	0.0	0.0	0.0	0.0	-0.0	18.2	-81.8
78	705099.91	5159167.81	2.40	0	2000	68.8	-31.2	0.0	0.0	54.0	1.4	-2.5	0.0	0.0	0.0	0.0	-0.0	16.0	-84.0
79	705099.91	5159167.81	2.40	0	4000	61.6	-38.4	0.0	0.0	54.0	4.6	-2.5	0.0	0.0	0.0	0.0	-0.0	5.5	-94.5
80	705099.91	5159167.81	2.40	0	8000	52.5	-47.5	0.0	0.0	54.0	16.4	-2.5	0.0	0.0	0.0	0.0	-0.0	-15.4	-115.4
81	705115.11	5159162.57	2.40	0	63	47.2	-52.8	0.0	0.0	53.2	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	-2.8	-102.8
82	705115.11	5159162.57	2.40	0	125	61.3	-38.7	0.0	0.0	53.2	0.1	-1.8	0.0	0.0	0.0	0.0	-0.0	9.8	-90.2
83	705115.11	5159162.57	2.40	0	250	67.8	-32.2	0.0	0.0	53.2	0.1	1.8	0.0	0.0	0.0	0.0	-0.0	12.6	-87.4
84	705115.11	5159162.57	2.40	0	500	70.2	-29.8	0.0	0.0	53.2	0.3	0.6	0.0	0.0	0.0	0.0	-0.0	16.1	-83.9
85	705115.11	5159162.57	2.40	0	1000	69.4	-30.6	0.0	0.0	53.2	0.5	-1.9	0.0	0.0	0.0	0.0	-0.0	17.6	-82.4
86	705115.11	5159162.57	2.40	0	2000	67.6	-32.4	0.0	0.0	53.2	1.3	-2.3	0.0	0.0	0.0	0.0	-0.0	15.4	-84.6
87	705115.11	5159162.57	2.40	0	4000	60.4	-39.6	0.0	0.0	53.2	4.2	-2.3	0.0	0.0	0.0	0.0	-0.0	5.3	-94.7
88	705115.11	5159162.57	2.40	0	8000	51.3	-48.7	0.0	0.0	53.2	15.1	-2.3	0.0	0.0	0.0	0.0	-0.0	-14.7	-114.7
89	705090.81	5159158.44	2.40	0	63	47.2	-52.8	0.0	0.0	53.8	0.0	-3.4	0.0	0.0	5.1	0.0	-0.0	-8.2	-108.2
90	705090.81	5159158.44	2.40	0	125	61.3	-38.7	0.0	0.0	53.8	0.1	-1.8	0.0	0.0	7.1	0.0	-0.0	2.2	-97.8

Line Source, ISO 9613, Name: "9a", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
91	705090.81	5159158.44	2.40	0	250	67.8	-32.2	0.0	0.0	53.8	0.1	2.2	0.0	0.0	9.0	0.0	-0.0	2.7	-97.3
92	705090.81	5159158.44	2.40	0	500	70.2	-29.8	0.0	0.0	53.8	0.3	0.9	0.0	0.0	12.5	0.0	-0.0	2.8	-97.2
93	705090.81	5159158.44	2.40	0	1000	69.4	-30.6	0.0	0.0	53.8	0.5	-2.0	0.0	0.0	15.6	0.0	-0.0	1.5	-98.5
94	705090.81	5159158.44	2.40	0	2000	67.6	-32.4	0.0	0.0	53.8	1.3	-2.4	0.0	0.0	18.3	0.0	-0.0	-3.3	-103.3
95	705090.81	5159158.44	2.40	0	4000	60.4	-39.6	0.0	0.0	53.8	4.5	-2.4	0.0	0.0	20.4	0.0	-0.0	-15.8	-115.8
96	705090.81	5159158.44	2.40	0	8000	51.3	-48.7	0.0	0.0	53.8	16.1	-2.4	0.0	0.0	22.1	0.0	-0.0	-38.2	-138.2
97	705108.92	5159167.00	2.40	0	63	47.0	-53.0	0.0	0.0	53.6	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	-3.2	-103.2
98	705108.92	5159167.00	2.40	0	125	61.1	-38.9	0.0	0.0	53.6	0.1	-1.9	0.0	0.0	0.0	0.0	-0.0	9.3	-90.7
99	705108.92	5159167.00	2.40	0	250	67.6	-32.4	0.0	0.0	53.6	0.1	1.8	0.0	0.0	0.0	0.0	-0.0	12.1	-88.0
100	705108.92	5159167.00	2.40	0	500	70.0	-30.0	0.0	0.0	53.6	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	15.6	-84.4
101	705108.92	5159167.00	2.40	0	1000	69.2	-30.8	0.0	0.0	53.6	0.5	-2.0	0.0	0.0	0.0	0.0	-0.0	17.1	-82.9
102	705108.92	5159167.00	2.40	0	2000	67.4	-32.6	0.0	0.0	53.6	1.3	-2.4	0.0	0.0	0.0	0.0	-0.0	14.9	-85.1
103	705108.92	5159167.00	2.40	0	4000	60.2	-39.8	0.0	0.0	53.6	4.5	-2.4	0.0	0.0	0.0	0.0	-0.0	4.6	-95.4
104	705108.92	5159167.00	2.40	0	8000	51.1	-48.9	0.0	0.0	53.6	15.9	-2.4	0.0	0.0	0.0	0.0	-0.0	-16.0	-116.0
105	705093.15	5159165.47	2.40	0	63	44.9	-55.1	0.0	0.0	54.0	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	-5.7	-105.7
106	705093.15	5159165.47	2.40	0	125	59.0	-41.0	0.0	0.0	54.0	0.1	-1.9	0.0	0.0	0.0	0.0	-0.0	6.7	-93.3
107	705093.15	5159165.47	2.40	0	250	65.5	-34.5	0.0	0.0	54.0	0.2	2.0	0.0	0.0	0.0	0.0	-0.0	9.3	-90.8
108	705093.15	5159165.47	2.40	0	500	67.9	-32.1	0.0	0.0	54.0	0.3	0.7	0.0	0.0	0.0	0.0	-0.0	12.9	-87.1
109	705093.15	5159165.47	2.40	0	1000	67.1	-32.9	0.0	0.0	54.0	0.5	-2.1	0.0	0.0	0.0	0.0	-0.0	14.6	-85.4
110	705093.15	5159165.47	2.40	0	2000	65.3	-34.7	0.0	0.0	54.0	1.4	-2.5	0.0	0.0	0.0	0.0	-0.0	12.4	-87.6
111	705093.15	5159165.47	2.40	0	4000	58.1	-41.9	0.0	0.0	54.0	4.7	-2.5	0.0	0.0	0.0	0.0	-0.0	1.9	-98.1
112	705093.15	5159165.47	2.40	0	8000	49.0	-51.0	0.0	0.0	54.0	16.6	-2.5	0.0	0.0	0.0	0.0	-0.0	-19.2	-119.2
113	705091.33	5159163.05	2.40	0	63	39.3	-60.7	0.0	0.0	54.0	0.0	-3.5	0.0	0.0	2.9	0.0	-0.0	-14.1	-114.1
114	705091.33	5159163.05	2.40	0	125	53.4	-46.6	0.0	0.0	54.0	0.1	-1.9	0.0	0.0	3.5	0.0	-0.0	-2.3	-102.3
115	705091.33	5159163.05	2.40	0	250	59.9	-40.1	0.0	0.0	54.0	0.2	2.1	0.0	0.0	3.7	0.0	-0.0	-0.1	-100.1
116	705091.33	5159163.05	2.40	0	500	62.3	-37.7	0.0	0.0	54.0	0.3	0.8	0.0	0.0	4.7	0.0	-0.0	2.5	-97.5
117	705091.33	5159163.05	2.40	0	1000	61.5	-38.5	0.0	0.0	54.0	0.5	-2.0	0.0	0.0	5.6	0.0	-0.0	3.4	-96.6
118	705091.33	5159163.05	2.40	0	2000	59.7	-40.3	0.0	0.0	54.0	1.4	-2.5	0.0	0.0	6.7	0.0	-0.0	0.2	-99.8
119	705091.33	5159163.05	2.40	0	4000	52.5	-47.5	0.0	0.0	54.0	4.6	-2.5	0.0	0.0	8.1	0.0	-0.0	-11.7	-111.7
120	705091.33	5159163.05	2.40	0	8000	43.4	-56.6	0.0	0.0	54.0	16.5	-2.5	0.0	0.0	9.9	0.0	-0.0	-34.5	-134.5
121	705118.38	5159150.68	2.40	1	500	73.5	-26.5	0.0	0.0	53.7	0.3	1.3	0.0	0.0	0.0	0.0	1.0	17.3	-82.7
122	705118.38	5159150.68	2.40	1	1000	72.7	-27.3	0.0	0.0	53.7	0.5	-1.8	0.0	0.0	0.0	0.0	1.0	19.3	-80.7
123	705118.38	5159150.68	2.40	1	2000	70.9	-29.1	0.0	0.0	53.7	1.3	-2.3	0.0	0.0	0.0	0.0	1.0	17.2	-82.8
124	705118.38	5159150.68	2.40	1	4000	63.7	-36.3	0.0	0.0	53.7	4.5	-2.3	0.0	0.0	0.0	0.0	1.0	6.8	-93.2
125	705118.38	5159150.68	2.40	1	8000	54.6	-45.4	0.0	0.0	53.7	16.0	-2.3	0.0	0.0	0.0	0.0	1.0	-13.8	-113.8
126	705115.11	5159162.57	2.40	1	500	70.2	-29.8	0.0	0.0	54.3	0.3	0.9	0.0	0.0	0.0	0.0	1.0	13.7	-86.3
127	705115.11	5159162.57	2.40	1	1000	69.4	-30.6	0.0	0.0	54.3	0.5	-2.0	0.0	0.0	0.0	0.0	1.0	15.6	-84.4
128	705115.11	5159162.57	2.40	1	2000	67.6	-32.4	0.0	0.0	54.3	1.4	-2.5	0.0	0.0	0.0	0.0	1.0	13.4	-86.6
129	705115.11	5159162.57	2.40	1	4000	60.4	-39.6	0.0	0.0	54.3	4.8	-2.5	0.0	0.0	0.0	0.0	1.0	2.9	-97.1
130	705115.11	5159162.57	2.40	1	8000	51.3	-48.7	0.0	0.0	54.3	17.0	-2.5	0.0	0.0	0.0	0.0	1.0	-18.5	-118.5
131	705109.04	5159166.96	2.40	1	500	69.9	-30.1	0.0	0.0	54.3	0.3	0.8	0.0	0.0	0.0	0.0	1.0	13.5	-86.5
132	705109.04	5159166.96	2.40	1	1000	69.1	-30.9	0.0	0.0	54.3	0.5	-2.1	0.0	0.0	0.0	0.0	1.0	15.3	-84.7
133	705109.04	5159166.96	2.40	1	2000	67.3	-32.7	0.0	0.0	54.3	1.4	-2.5	0.0	0.0	0.0	0.0	1.0	13.1	-86.9
134	705109.04	5159166.96	2.40	1	4000	60.1	-39.9	0.0	0.0	54.3	4.8	-2.5	0.0	0.0	0.0	0.0	1.0	2.5	-97.5
135	705109.04	5159166.96	2.40	1	8000	51.0	-49.0	0.0	0.0	54.3	17.1	-2.5	0.0	0.0	0.0	0.0	1.0	-18.9	-118.9

Line Source, ISO 9613, Name: "9b", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705103.74	5159075.86	2.40	0	63	53.0	-47.0	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.8	-92.1
2	705103.74	5159075.86	2.40	0	125	67.1	-32.9	0.0	0.0	48.1	0.0	1.1	0.0	0.0	0.0	0.0	-0.0	17.8	-82.2
3	705103.74	5159075.86	2.40	0	250	73.6	-26.4	0.0	0.0	48.1	0.1	8.1	0.0	0.0	0.0	0.0	-0.0	17.3	-82.7
4	705103.74	5159075.86	2.40	0	500	76.0	-24.0	0.0	0.0	48.1	0.1	4.0	0.0	0.0	0.0	0.0	-0.0	23.7	-76.3
5	705103.74	5159075.86	2.40	0	1000	75.2	-24.8	0.0	0.0	48.1	0.3	0.2	0.0	0.0	0.0	0.0	-0.0	26.6	-73.4
6	705103.74	5159075.86	2.40	0	2000	73.4	-26.6	0.0	0.0	48.1	0.7	-0.3	0.0	0.0	0.0	0.0	-0.0	24.9	-75.1
7	705103.74	5159075.86	2.40	0	4000	66.2	-33.8	0.0	0.0	48.1	2.4	-0.3	0.0	0.0	0.0	0.0	-0.0	16.0	-84.0
8	705103.74	5159075.86	2.40	0	8000	57.1	-42.9	0.0	0.0	48.1	8.4	-0.3	0.0	0.0	0.0	0.0	-0.0	0.9	-99.1
9	705105.63	5159045.00	2.40	0	63	53.0	-47.0	0.0	0.0	47.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.0	-91.0
10	705105.63	5159045.00	2.40	0	125	67.1	-32.9	0.0	0.0	47.0	0.0	1.1	0.0	0.0	0.0	0.0	-0.0	18.9	-81.1
11	705105.63	5159045.00	2.40	0	250	73.6	-26.4	0.0	0.0	47.0	0.1	7.8	0.0	0.0	0.0	0.0	-0.0	18.7	-81.3
12	705105.63	5159045.00	2.40	0	500	76.0	-24.0	0.0	0.0	47.0	0.1	3.8	0.0	0.0	0.0	0.0	-0.0	25.0	-75.0
13	705105.63	5159045.00	2.40	0	1000	75.2	-24.8	0.0	0.0	47.0	0.2	0.2	0.0	0.0	0.0	0.0	-0.0	27.7	-72.3
14	705105.63	5159045.00	2.40	0	2000	73.4	-26.6	0.0	0.0	47.0	0.6	-0.3	0.0	0.0	0.0	0.0	-0.0	26.0	-74.0

Line Source, ISO 9613, Name: "9b", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
15	705105.63	5159045.00	2.40	0	4000	66.2	-33.8	0.0	0.0	47.0	2.1	-0.3	0.0	0.0	0.0	0.0	-0.0	17.4	-82.6
16	705105.63	5159045.00	2.40	0	8000	57.1	-42.9	0.0	0.0	47.0	7.4	-0.3	0.0	0.0	0.0	0.0	-0.0	2.9	-97.1
17	705107.52	5159014.14	2.40	0	63	53.0	-47.0	0.0	0.0	47.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	8.2	-91.8
18	705107.52	5159014.14	2.40	0	125	67.1	-32.9	0.0	0.0	47.8	0.0	1.3	0.0	0.0	0.0	0.0	-0.0	18.0	-82.0
19	705107.52	5159014.14	2.40	0	250	73.6	-26.4	0.0	0.0	47.8	0.1	8.4	0.0	0.0	0.0	0.0	-0.0	17.4	-82.6
20	705107.52	5159014.14	2.40	0	500	76.0	-24.0	0.0	0.0	47.8	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	23.9	-76.1
21	705107.52	5159014.14	2.40	0	1000	75.2	-24.8	0.0	0.0	47.8	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	26.9	-73.1
22	705107.52	5159014.14	2.40	0	2000	73.4	-26.6	0.0	0.0	47.8	0.7	-0.2	0.0	0.0	0.0	0.0	-0.0	25.2	-74.8
23	705107.52	5159014.14	2.40	0	4000	66.2	-33.8	0.0	0.0	47.8	2.3	-0.2	0.0	0.0	0.0	0.0	-0.0	16.4	-83.6
24	705107.52	5159014.14	2.40	0	8000	57.1	-42.9	0.0	0.0	47.8	8.1	-0.2	0.0	0.0	0.0	0.0	-0.0	1.5	-98.5
25	705109.42	5158983.28	2.40	0	63	53.0	-47.0	0.0	0.0	49.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.3	-93.7
26	705109.42	5158983.28	2.40	0	125	67.1	-32.9	0.0	0.0	49.7	0.0	1.5	0.0	0.0	0.0	0.0	-0.0	15.9	-84.1
27	705109.42	5158983.28	2.40	0	250	73.6	-26.4	0.0	0.0	49.7	0.1	9.3	0.0	0.0	0.0	0.0	-0.0	14.5	-85.5
28	705109.42	5158983.28	2.40	0	500	76.0	-24.0	0.0	0.0	49.7	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	21.5	-78.5
29	705109.42	5158983.28	2.40	0	1000	75.2	-24.8	0.0	0.0	49.7	0.3	0.4	0.0	0.0	0.0	0.0	-0.0	24.8	-75.2
30	705109.42	5158983.28	2.40	0	2000	73.4	-26.6	0.0	0.0	49.7	0.8	-0.2	0.0	0.0	0.0	0.0	-0.0	23.1	-76.9
31	705109.42	5158983.28	2.40	0	4000	66.2	-33.8	0.0	0.0	49.7	2.8	-0.2	0.0	0.0	0.0	0.0	-0.0	13.9	-86.1
32	705109.42	5158983.28	2.40	0	8000	57.1	-42.9	0.0	0.0	49.7	10.1	-0.2	0.0	0.0	0.0	0.0	-0.0	-2.5	-102.5
33	705098.86	5159097.35	2.40	0	63	49.7	-50.3	0.0	0.0	49.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.9	-97.1
34	705098.86	5159097.35	2.40	0	125	63.8	-36.2	0.0	0.0	49.8	0.0	0.3	0.0	0.0	0.0	0.0	-0.0	13.7	-86.3
35	705098.86	5159097.35	2.40	0	250	70.3	-29.7	0.0	0.0	49.8	0.1	6.6	0.0	0.0	0.0	0.0	-0.0	13.8	-86.3
36	705098.86	5159097.35	2.40	0	500	72.7	-27.3	0.0	0.0	49.8	0.2	3.5	0.0	0.0	0.0	0.0	-0.0	19.2	-80.8
37	705098.86	5159097.35	2.40	0	1000	71.9	-28.1	0.0	0.0	49.8	0.3	-0.3	0.0	0.0	0.0	0.0	-0.0	22.1	-77.9
38	705098.86	5159097.35	2.40	0	2000	70.1	-29.9	0.0	0.0	49.8	0.8	-0.9	0.0	0.0	0.0	0.0	-0.0	20.3	-79.7
39	705098.86	5159097.35	2.40	0	4000	62.9	-37.1	0.0	0.0	49.8	2.9	-0.9	0.0	0.0	0.0	0.0	-0.0	11.1	-88.9
40	705098.86	5159097.35	2.40	0	8000	53.8	-46.2	0.0	0.0	49.8	10.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-5.3	-105.3
41	705093.23	5159113.31	2.40	0	63	45.5	-54.5	0.0	0.0	51.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-2.6	-102.6
42	705093.23	5159113.31	2.40	0	125	59.6	-40.4	0.0	0.0	51.1	0.0	-0.8	0.0	0.0	0.0	0.0	-0.0	9.3	-90.7
43	705093.23	5159113.31	2.40	0	250	66.1	-33.9	0.0	0.0	51.1	0.1	4.0	0.0	0.0	0.0	0.0	-0.0	10.8	-89.2
44	705093.23	5159113.31	2.40	0	500	68.5	-31.5	0.0	0.0	51.1	0.2	2.1	0.0	0.0	0.0	0.0	-0.0	15.0	-85.0
45	705093.23	5159113.31	2.40	0	1000	67.7	-32.3	0.0	0.0	51.1	0.4	-1.1	0.0	0.0	0.0	0.0	-0.0	17.3	-82.7
46	705093.23	5159113.31	2.40	0	2000	65.9	-34.1	0.0	0.0	51.1	1.0	-1.6	0.0	0.0	0.0	0.0	-0.0	15.4	-84.6
47	705093.23	5159113.31	2.40	0	4000	58.7	-41.3	0.0	0.0	51.1	3.3	-1.6	0.0	0.0	0.0	0.0	-0.0	5.8	-94.2
48	705093.23	5159113.31	2.40	0	8000	49.6	-50.4	0.0	0.0	51.1	11.9	-1.6	0.0	0.0	0.0	0.0	-0.0	-11.8	-111.8
49	705094.31	5159107.00	2.40	0	63	46.7	-53.3	0.0	0.0	50.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-1.0	-101.0
50	705094.31	5159107.00	2.40	0	125	60.8	-39.2	0.0	0.0	50.7	0.0	-0.4	0.0	0.0	0.0	0.0	-0.0	10.4	-89.6
51	705094.31	5159107.00	2.40	0	250	67.3	-32.7	0.0	0.0	50.7	0.1	5.2	0.0	0.0	0.0	0.0	-0.0	11.3	-88.7
52	705094.31	5159107.00	2.40	0	500	69.7	-30.3	0.0	0.0	50.7	0.2	2.8	0.0	0.0	0.0	0.0	-0.0	16.0	-84.0
53	705094.31	5159107.00	2.40	0	1000	68.9	-31.1	0.0	0.0	50.7	0.4	-0.8	0.0	0.0	0.0	0.0	-0.0	18.6	-81.4
54	705094.31	5159107.00	2.40	0	2000	67.1	-32.9	0.0	0.0	50.7	0.9	-1.3	0.0	0.0	0.0	0.0	-0.0	16.8	-83.2
55	705094.31	5159107.00	2.40	0	4000	59.9	-40.1	0.0	0.0	50.7	3.2	-1.3	0.0	0.0	0.0	0.0	-0.0	7.3	-92.7
56	705094.31	5159107.00	2.40	0	8000	50.8	-49.2	0.0	0.0	50.7	11.3	-1.3	0.0	0.0	0.0	0.0	-0.0	-9.9	-109.9
57	705093.40	5159112.34	2.40	1	125	61.0	-39.0	0.0	0.0	51.6	0.0	-1.1	0.0	0.0	0.0	0.0	1.0	9.4	-90.6
58	705093.40	5159112.34	2.40	1	250	67.5	-32.5	0.0	0.0	51.6	0.1	3.5	0.0	0.0	0.0	0.0	1.0	11.2	-88.8
59	705093.40	5159112.34	2.40	1	500	69.9	-30.1	0.0	0.0	51.6	0.2	1.9	0.0	0.0	0.0	0.0	1.0	15.2	-84.8
60	705093.40	5159112.34	2.40	1	1000	69.1	-30.9	0.0	0.0	51.6	0.4	-1.3	0.0	0.0	0.0	0.0	1.0	17.3	-82.7
61	705093.40	5159112.34	2.40	1	2000	67.3	-32.7	0.0	0.0	51.6	1.0	-1.7	0.0	0.0	0.0	0.0	1.0	15.3	-84.7
62	705093.40	5159112.34	2.40	1	4000	60.1	-39.9	0.0	0.0	51.6	3.5	-1.7	0.0	0.0	0.0	0.0	1.0	5.6	-94.3
63	705093.40	5159112.34	2.40	1	8000	51.0	-49.0	0.0	0.0	51.6	12.5	-1.7	0.0	0.0	0.0	0.0	1.0	-12.5	-112.5

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705172.34	5159127.58	1.20	0	63	45.2	-57.8	0.0	0.0	49.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-1.1	-104.1
2	705172.34	5159127.58	1.20	0	125	57.3	-45.7	0.0	0.0	49.3	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	9.7	-93.3
3	705172.34	5159127.58	1.20	0	250	55.6	-47.4	0.0	0.0	49.3	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	4.8	-98.2
4	705172.34	5159127.58	1.20	0	500	58.9	-44.1	0.0	0.0	49.3	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	9.1	-94.0
5	705172.34	5159127.58	1.20	0	1000	61.9	-41.1	0.0	0.0	49.3	0.3	-1.8	0.0	0.0	0.0	0.0	-0.0	14.1	-88.9
6	705172.34	5159127.58	1.20	0	2000	58.0	-45.0	0.0	0.0	49.3	0.8	-2.1	0.0	0.0	0.0	0.0	-0.0	10.0	-93.0
7	705172.34	5159127.58	1.20	0	4000	52.4	-50.6	0.0	0.0	49.3	2.7	-2.1	0.0	0.0	0.0	0.0	-0.0	2.5	-100.5
8	705172.34	5159127.58	1.20	0	8000	48.7	-54.3	0.0	0.0	49.3	9.6	-2.1	0.0	0.0	0.0	0.0	-0.0	-8.1	-111.1
9	705138.78	5159120.44	1.20	0	63	45.2	-57.8	0.0	0.0	49.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-1.0	-104.0
10	705138.78	5159120.44	1.20	0	125	57.3	-45.7	0.0	0.0	49.2	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	9.8	-93.2

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
11	705138.78	5159120.44	1.20	0	250	55.6	-47.4	0.0	0.0	49.2	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	4.9	-98.1
12	705138.78	5159120.44	1.20	0	500	58.9	-44.1	0.0	0.0	49.2	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	9.2	-93.8
13	705138.78	5159120.44	1.20	0	1000	61.9	-41.1	0.0	0.0	49.2	0.3	-1.7	0.0	0.0	0.0	0.0	-0.0	14.2	-88.8
14	705138.78	5159120.44	1.20	0	2000	58.0	-45.0	0.0	0.0	49.2	0.8	-2.1	0.0	0.0	0.0	0.0	-0.0	10.1	-92.9
15	705138.78	5159120.44	1.20	0	4000	52.4	-50.6	0.0	0.0	49.2	2.6	-2.1	0.0	0.0	0.0	0.0	-0.0	2.7	-100.3
16	705138.78	5159120.44	1.20	0	8000	48.7	-54.3	0.0	0.0	49.2	9.5	-2.1	0.0	0.0	0.0	0.0	-0.0	-7.8	-110.9
17	705135.28	5159121.97	1.20	0	63	44.0	-59.0	0.0	0.0	49.5	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	-2.4	-105.4
18	705135.28	5159121.97	1.20	0	125	56.1	-46.9	0.0	0.0	49.5	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	8.3	-94.7
19	705135.28	5159121.97	1.20	0	250	54.4	-48.6	0.0	0.0	49.5	0.1	1.5	0.0	0.0	0.0	0.0	-0.0	3.4	-99.6
20	705135.28	5159121.97	1.20	0	500	57.7	-45.3	0.0	0.0	49.5	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	7.6	-95.4
21	705135.28	5159121.97	1.20	0	1000	60.7	-42.3	0.0	0.0	49.5	0.3	-1.8	0.0	0.0	0.0	0.0	-0.0	12.7	-90.3
22	705135.28	5159121.97	1.20	0	2000	56.8	-46.2	0.0	0.0	49.5	0.8	-2.1	0.0	0.0	0.0	0.0	-0.0	8.7	-94.4
23	705135.28	5159121.97	1.20	0	4000	51.2	-51.8	0.0	0.0	49.5	2.7	-2.1	0.0	0.0	0.0	0.0	-0.0	1.1	-101.9
24	705135.28	5159121.97	1.20	0	8000	47.5	-55.5	0.0	0.0	49.5	9.8	-2.1	0.0	0.0	0.0	0.0	-0.0	-9.6	-112.6
25	705160.04	5159129.11	1.20	0	63	44.0	-59.0	0.0	0.0	49.5	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	-2.4	-105.5
26	705160.04	5159129.11	1.20	0	125	56.1	-46.9	0.0	0.0	49.5	0.0	-1.8	0.0	0.0	0.0	0.0	-0.0	8.3	-94.7
27	705160.04	5159129.11	1.20	0	250	54.4	-48.6	0.0	0.0	49.5	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	3.4	-99.6
28	705160.04	5159129.11	1.20	0	500	57.7	-45.3	0.0	0.0	49.5	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	7.6	-95.4
29	705160.04	5159129.11	1.20	0	1000	60.7	-42.3	0.0	0.0	49.5	0.3	-1.8	0.0	0.0	0.0	0.0	-0.0	12.7	-90.3
30	705160.04	5159129.11	1.20	0	2000	56.8	-46.2	0.0	0.0	49.5	0.8	-2.2	0.0	0.0	0.0	0.0	-0.0	8.6	-94.4
31	705160.04	5159129.11	1.20	0	4000	51.2	-51.8	0.0	0.0	49.5	2.8	-2.2	0.0	0.0	0.0	0.0	-0.0	1.1	-102.0
32	705160.04	5159129.11	1.20	0	8000	47.5	-55.5	0.0	0.0	49.5	9.9	-2.2	0.0	0.0	0.0	0.0	-0.0	-9.7	-112.7
33	705179.60	5159134.06	1.20	0	63	41.5	-61.5	0.0	0.0	50.0	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	-5.3	-108.3
34	705179.60	5159134.06	1.20	0	125	53.6	-49.4	0.0	0.0	50.0	0.0	-1.9	0.0	0.0	0.0	0.0	-0.0	5.5	-97.5
35	705179.60	5159134.06	1.20	0	250	51.9	-51.1	0.0	0.0	50.0	0.1	1.3	0.0	0.0	0.0	0.0	-0.0	0.5	-102.6
36	705179.60	5159134.06	1.20	0	500	55.2	-47.8	0.0	0.0	50.0	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	4.8	-98.3
37	705179.60	5159134.06	1.20	0	1000	58.2	-44.8	0.0	0.0	50.0	0.3	-2.0	0.0	0.0	0.0	0.0	-0.0	9.9	-93.2
38	705179.60	5159134.06	1.20	0	2000	54.3	-48.7	0.0	0.0	50.0	0.9	-2.3	0.0	0.0	0.0	0.0	-0.0	5.8	-97.3
39	705179.60	5159134.06	1.20	0	4000	48.7	-54.3	0.0	0.0	50.0	2.9	-2.3	0.0	0.0	0.0	0.0	-0.0	-1.9	-104.9
40	705179.60	5159134.06	1.20	0	8000	45.0	-58.0	0.0	0.0	50.0	10.5	-2.3	0.0	0.0	0.0	0.0	-0.0	-13.1	-116.1
41	705115.74	5159115.15	1.20	0	63	41.0	-62.0	0.0	0.0	49.9	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	-5.7	-108.7
42	705115.74	5159115.15	1.20	0	125	53.1	-49.9	0.0	0.0	49.9	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	4.8	-98.2
43	705115.74	5159115.15	1.20	0	250	51.4	-51.6	0.0	0.0	49.9	0.1	2.0	0.0	0.0	0.0	0.0	-0.0	-0.6	-103.6
44	705115.74	5159115.15	1.20	0	500	54.7	-48.3	0.0	0.0	49.9	0.2	0.8	0.0	0.0	0.0	0.0	-0.0	3.8	-99.2
45	705115.74	5159115.15	1.20	0	1000	57.7	-45.3	0.0	0.0	49.9	0.3	-1.8	0.0	0.0	0.0	0.0	-0.0	9.3	-93.8
46	705115.74	5159115.15	1.20	0	2000	53.8	-49.2	0.0	0.0	49.9	0.9	-2.1	0.0	0.0	0.0	0.0	-0.0	5.2	-97.8
47	705115.74	5159115.15	1.20	0	4000	48.2	-54.8	0.0	0.0	49.9	2.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-2.4	-105.4
48	705115.74	5159115.15	1.20	0	8000	44.5	-58.5	0.0	0.0	49.9	10.3	-2.1	0.0	0.0	0.0	0.0	-0.0	-13.5	-116.5
49	705117.18	5159116.65	1.20	0	63	40.6	-62.4	0.0	0.0	49.9	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	-6.0	-109.1
50	705117.18	5159116.65	1.20	0	125	52.7	-50.3	0.0	0.0	49.9	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	4.5	-98.5
51	705117.18	5159116.65	1.20	0	250	51.0	-52.0	0.0	0.0	49.9	0.1	2.0	0.0	0.0	0.0	0.0	-0.0	-0.9	-104.0
52	705117.18	5159116.65	1.20	0	500	54.3	-48.7	0.0	0.0	49.9	0.2	0.8	0.0	0.0	0.0	0.0	-0.0	3.5	-99.5
53	705117.18	5159116.65	1.20	0	1000	57.3	-45.7	0.0	0.0	49.9	0.3	-1.8	0.0	0.0	0.0	0.0	-0.0	8.9	-94.1
54	705117.18	5159116.65	1.20	0	2000	53.4	-49.6	0.0	0.0	49.9	0.9	-2.2	0.0	0.0	0.0	0.0	-0.0	4.8	-98.2
55	705117.18	5159116.65	1.20	0	4000	47.8	-55.2	0.0	0.0	49.9	2.9	-2.2	0.0	0.0	0.0	0.0	-0.0	-2.8	-105.8
56	705117.18	5159116.65	1.20	0	8000	44.1	-58.9	0.0	0.0	49.9	10.3	-2.2	0.0	0.0	0.0	0.0	-0.0	-13.9	-116.9
57	705192.48	5159135.04	1.20	0	63	40.2	-62.9	0.0	0.0	50.3	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	-6.8	-109.8
58	705192.48	5159135.04	1.20	0	125	52.3	-50.8	0.0	0.0	50.3	0.0	-2.0	0.0	0.0	0.0	0.0	-0.0	3.8	-99.2
59	705192.48	5159135.04	1.20	0	250	50.6	-52.5	0.0	0.0	50.3	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	-1.3	-104.3
60	705192.48	5159135.04	1.20	0	500	53.9	-49.2	0.0	0.0	50.3	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	3.0	-100.0
61	705192.48	5159135.04	1.20	0	1000	56.9	-46.2	0.0	0.0	50.3	0.3	-2.1	0.0	0.0	0.0	0.0	-0.0	8.2	-94.8
62	705192.48	5159135.04	1.20	0	2000	53.0	-50.1	0.0	0.0	50.3	0.9	-2.4	0.0	0.0	0.0	0.0	-0.0	4.1	-98.9
63	705192.48	5159135.04	1.20	0	4000	47.4	-55.7	0.0	0.0	50.3	3.0	-2.4	0.0	0.0	0.0	0.0	-0.0	-3.6	-106.6
64	705192.48	5159135.04	1.20	0	8000	43.7	-59.4	0.0	0.0	50.3	10.8	-2.4	0.0	0.0	0.0	0.0	-0.0	-15.1	-118.1
65	705192.77	5159132.99	1.20	0	63	40.0	-63.0	0.0	0.0	50.2	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	-6.8	-109.8
66	705192.77	5159132.99	1.20	0	125	52.1	-50.9	0.0	0.0	50.2	0.0	-1.9	0.0	0.0	0.0	0.0	-0.0	3.8	-99.2
67	705192.77	5159132.99	1.20	0	250	50.4	-52.6	0.0	0.0	50.2	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	-1.3	-104.3
68	705192.77	5159132.99	1.20	0	500	53.7	-49.3	0.0	0.0	50.2	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	3.1	-100.0
69	705192.77	5159132.99	1.20	0	1000	56.7	-46.3	0.0	0.0	50.2	0.3	-2.0	0.0	0.0	0.0	0.0	-0.0	8.2	-94.8
70	705192.77	5159132.99	1.20	0	2000	52.8	-50.2	0.0	0.0	50.2	0.9	-2.4	0.0	0.0	0.0	0.0	-0.0	4.1	-98.9
71	705192.77	5159132.99	1.20	0	4000	47.2	-55.8	0.0	0.0	50.2	3.0	-2.4	0.0	0.0	0.0	0.0	-0.0	-3.6	-106.6
72	705192.77	5159132.99	1.20	0	8000	43.5	-59.5	0.0	0.0	50.2	10.6	-2.4	0.0	0.0	0.0	0.0	-0.0	-14.9	-117.9
73	705192.28	5159135.73	1.20	0	63	40.3	-62.8	0.0	0.0	50.4	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	-6.8	-109.8

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
74	705192.28	5159135.73	1.20	0	125	52.4	-50.7	0.0	0.0	50.4	0.0	-2.0	0.0	0.0	0.0	0.0	-0.0	3.9	-99.1
75	705192.28	5159135.73	1.20	0	250	50.7	-52.4	0.0	0.0	50.4	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	-1.2	-104.2
76	705192.28	5159135.73	1.20	0	500	54.0	-49.1	0.0	0.0	50.4	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	3.1	-99.9
77	705192.28	5159135.73	1.20	0	1000	57.0	-46.1	0.0	0.0	50.4	0.3	-2.1	0.0	0.0	0.0	0.0	-0.0	8.3	-94.7
78	705192.28	5159135.73	1.20	0	2000	53.1	-50.0	0.0	0.0	50.4	0.9	-2.4	0.0	0.0	0.0	0.0	-0.0	4.2	-98.8
79	705192.28	5159135.73	1.20	0	4000	47.5	-55.6	0.0	0.0	50.4	3.1	-2.4	0.0	0.0	0.0	0.0	-0.0	-3.6	-106.6
80	705192.28	5159135.73	1.20	0	8000	43.8	-59.3	0.0	0.0	50.4	10.9	-2.4	0.0	0.0	0.0	0.0	-0.0	-15.1	-118.1
81	705106.23	5159114.13	1.20	0	63	40.1	-62.9	0.0	0.0	50.4	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	-6.9	-109.9
82	705106.23	5159114.13	1.20	0	125	52.2	-50.8	0.0	0.0	50.4	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	3.4	-99.6
83	705106.23	5159114.13	1.20	0	250	50.5	-52.5	0.0	0.0	50.4	0.1	2.4	0.0	0.0	0.0	0.0	-0.0	-2.4	-105.4
84	705106.23	5159114.13	1.20	0	500	53.8	-49.2	0.0	0.0	50.4	0.2	1.1	0.0	0.0	0.0	0.0	-0.0	2.2	-100.8
85	705106.23	5159114.13	1.20	0	1000	56.8	-46.2	0.0	0.0	50.4	0.3	-1.8	0.0	0.0	0.0	0.0	-0.0	7.8	-95.2
86	705106.23	5159114.13	1.20	0	2000	52.9	-50.1	0.0	0.0	50.4	0.9	-2.2	0.0	0.0	0.0	0.0	-0.0	3.8	-99.2
87	705106.23	5159114.13	1.20	0	4000	47.3	-55.7	0.0	0.0	50.4	3.0	-2.2	0.0	0.0	0.0	0.0	-0.0	-3.9	-106.9
88	705106.23	5159114.13	1.20	0	8000	43.6	-59.4	0.0	0.0	50.4	10.9	-2.2	0.0	0.0	0.0	0.0	-0.0	-15.5	-118.5
89	705192.59	5159133.65	1.20	0	63	39.9	-63.1	0.0	0.0	50.2	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	-7.0	-110.0
90	705192.59	5159133.65	1.20	0	125	52.0	-51.0	0.0	0.0	50.2	0.0	-1.9	0.0	0.0	0.0	0.0	-0.0	3.7	-99.3
91	705192.59	5159133.65	1.20	0	250	50.3	-52.7	0.0	0.0	50.2	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	-1.4	-104.4
92	705192.59	5159133.65	1.20	0	500	53.6	-49.4	0.0	0.0	50.2	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	2.9	-100.1
93	705192.59	5159133.65	1.20	0	1000	56.6	-46.4	0.0	0.0	50.2	0.3	-2.0	0.0	0.0	0.0	0.0	-0.0	8.1	-94.9
94	705192.59	5159133.65	1.20	0	2000	52.7	-50.3	0.0	0.0	50.2	0.9	-2.4	0.0	0.0	0.0	0.0	-0.0	4.0	-99.0
95	705192.59	5159133.65	1.20	0	4000	47.1	-55.9	0.0	0.0	50.2	3.0	-2.4	0.0	0.0	0.0	0.0	-0.0	-3.7	-106.7
96	705192.59	5159133.65	1.20	0	8000	43.4	-59.6	0.0	0.0	50.2	10.7	-2.4	0.0	0.0	0.0	0.0	-0.0	-15.1	-118.1
97	705192.42	5159134.25	1.20	0	63	40.0	-63.0	0.0	0.0	50.3	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	-6.9	-109.9
98	705192.42	5159134.25	1.20	0	125	52.1	-50.9	0.0	0.0	50.3	0.0	-2.0	0.0	0.0	0.0	0.0	-0.0	3.8	-99.2
99	705192.42	5159134.25	1.20	0	250	50.4	-52.6	0.0	0.0	50.3	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	-1.4	-104.4
100	705192.42	5159134.25	1.20	0	500	53.7	-49.3	0.0	0.0	50.3	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	3.0	-100.0
101	705192.42	5159134.25	1.20	0	1000	56.7	-46.3	0.0	0.0	50.3	0.3	-2.0	0.0	0.0	0.0	0.0	-0.0	8.2	-94.8
102	705192.42	5159134.25	1.20	0	2000	52.8	-50.2	0.0	0.0	50.3	0.9	-2.4	0.0	0.0	0.0	0.0	-0.0	4.1	-99.0
103	705192.42	5159134.25	1.20	0	4000	47.2	-55.8	0.0	0.0	50.3	3.0	-2.4	0.0	0.0	0.0	0.0	-0.0	-3.7	-106.7
104	705192.42	5159134.25	1.20	0	8000	43.5	-59.5	0.0	0.0	50.3	10.8	-2.4	0.0	0.0	0.0	0.0	-0.0	-15.1	-118.1
105	705104.41	5159112.89	1.20	0	63	39.9	-63.1	0.0	0.0	50.4	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	-7.1	-110.1
106	705104.41	5159112.89	1.20	0	125	52.0	-51.0	0.0	0.0	50.4	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	3.2	-99.8
107	705104.41	5159112.89	1.20	0	250	50.3	-52.7	0.0	0.0	50.4	0.1	2.5	0.0	0.0	0.0	0.0	-0.0	-2.7	-105.7
108	705104.41	5159112.89	1.20	0	500	53.6	-49.4	0.0	0.0	50.4	0.2	1.2	0.0	0.0	0.0	0.0	-0.0	1.9	-101.1
109	705104.41	5159112.89	1.20	0	1000	56.6	-46.4	0.0	0.0	50.4	0.3	-1.8	0.0	0.0	0.0	0.0	-0.0	7.6	-95.4
110	705104.41	5159112.89	1.20	0	2000	52.7	-50.3	0.0	0.0	50.4	0.9	-2.2	0.0	0.0	0.0	0.0	-0.0	3.6	-99.4
111	705104.41	5159112.89	1.20	0	4000	47.1	-55.9	0.0	0.0	50.4	3.1	-2.2	0.0	0.0	0.0	0.0	-0.0	-4.1	-107.1
112	705104.41	5159112.89	1.20	0	8000	43.4	-59.6	0.0	0.0	50.4	10.9	-2.2	0.0	0.0	0.0	0.0	-0.0	-15.7	-118.7
113	705193.55	5159132.13	1.20	0	63	39.4	-63.6	0.0	0.0	50.1	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	-7.4	-110.4
114	705193.55	5159132.13	1.20	0	125	51.5	-51.5	0.0	0.0	50.1	0.0	-1.9	0.0	0.0	0.0	0.0	-0.0	3.3	-99.7
115	705193.55	5159132.13	1.20	0	250	49.8	-53.2	0.0	0.0	50.1	0.1	1.5	0.0	0.0	0.0	0.0	-0.0	-1.8	-104.8
116	705193.55	5159132.13	1.20	0	500	53.1	-49.9	0.0	0.0	50.1	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	2.5	-100.5
117	705193.55	5159132.13	1.20	0	1000	56.1	-46.9	0.0	0.0	50.1	0.3	-2.0	0.0	0.0	0.0	0.0	-0.0	7.7	-95.3
118	705193.55	5159132.13	1.20	0	2000	52.2	-50.8	0.0	0.0	50.1	0.9	-2.3	0.0	0.0	0.0	0.0	-0.0	3.6	-99.4
119	705193.55	5159132.13	1.20	0	4000	46.6	-56.4	0.0	0.0	50.1	3.0	-2.3	0.0	0.0	0.0	0.0	-0.0	-4.1	-107.1
120	705193.55	5159132.13	1.20	0	8000	42.9	-60.1	0.0	0.0	50.1	10.6	-2.3	0.0	0.0	0.0	0.0	-0.0	-15.4	-118.4
121	705098.06	5159114.62	1.20	0	63	35.2	-67.8	0.0	0.0	50.9	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	-12.2	-115.2
122	705098.06	5159114.62	1.20	0	125	47.3	-55.7	0.0	0.0	50.9	0.0	-1.6	0.0	0.0	0.0	0.0	-0.0	-2.0	-105.0
123	705098.06	5159114.62	1.20	0	250	45.6	-57.4	0.0	0.0	50.9	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	-8.4	-111.4
124	705098.06	5159114.62	1.20	0	500	48.9	-54.1	0.0	0.0	50.9	0.2	1.5	0.0	0.0	0.0	0.0	-0.0	-3.7	-106.7
125	705098.06	5159114.62	1.20	0	1000	51.9	-51.1	0.0	0.0	50.9	0.4	-1.8	0.0	0.0	0.0	0.0	-0.0	2.4	-100.6
126	705098.06	5159114.62	1.20	0	2000	48.0	-55.0	0.0	0.0	50.9	1.0	-2.2	0.0	0.0	0.0	0.0	-0.0	-1.6	-104.6
127	705098.06	5159114.62	1.20	0	4000	42.4	-60.6	0.0	0.0	50.9	3.3	-2.2	0.0	0.0	0.0	0.0	-0.0	-9.5	-112.5
128	705098.06	5159114.62	1.20	0	8000	38.7	-64.3	0.0	0.0	50.9	11.6	-2.2	0.0	0.0	0.0	0.0	-0.0	-21.5	-124.6
129	705099.06	5159111.76	1.20	0	63	34.0	-69.0	0.0	0.0	50.7	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	-13.2	-116.2
130	705099.06	5159111.76	1.20	0	125	46.1	-56.9	0.0	0.0	50.7	0.0	-1.6	0.0	0.0	0.0	0.0	-0.0	-3.0	-106.0
131	705099.06	5159111.76	1.20	0	250	44.4	-58.6	0.0	0.0	50.7	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	-9.3	-112.3
132	705099.06	5159111.76	1.20	0	500	47.7	-55.3	0.0	0.0	50.7	0.2	1.5	0.0	0.0	0.0	0.0	-0.0	-4.6	-107.6
133	705099.06	5159111.76	1.20	0	1000	50.7	-52.3	0.0	0.0	50.7	0.4	-1.7	0.0	0.0	0.0	0.0	-0.0	1.4	-101.6
134	705099.06	5159111.76	1.20	0	2000	46.8	-56.2	0.0	0.0	50.7	0.9	-2.2	0.0	0.0	0.0	0.0	-0.0	-2.6	-105.6
135	705099.06	5159111.76	1.20	0	4000	41.2	-61.8	0.0	0.0	50.7	3.2	-2.2	0.0	0.0	0.0	0.0	-0.0	-10.4	-113.4
136	705099.06	5159111.76	1.20	0	8000	37.5	-65.5	0.0	0.0	50.7	11.3	-2.2	0.0	0.0	0.0	0.0	-0.0	-22.2	-125.2

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
137	705098.87	5159115.43	1.20	0	63	33.3	-69.7	0.0	0.0	50.9	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	-14.1	-117.1
138	705098.87	5159115.43	1.20	0	125	45.4	-57.6	0.0	0.0	50.9	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-3.8	-106.8
139	705098.87	5159115.43	1.20	0	250	43.7	-59.3	0.0	0.0	50.9	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	-9.9	-112.9
140	705098.87	5159115.43	1.20	0	500	47.0	-56.0	0.0	0.0	50.9	0.2	1.2	0.0	0.0	0.0	0.0	-0.0	-5.3	-108.3
141	705098.87	5159115.43	1.20	0	1000	50.0	-53.0	0.0	0.0	50.9	0.4	-1.9	0.0	0.0	0.0	0.0	-0.0	0.6	-102.4
142	705098.87	5159115.43	1.20	0	2000	46.1	-56.9	0.0	0.0	50.9	1.0	-2.3	0.0	0.0	0.0	0.0	-0.0	-3.4	-106.5
143	705098.87	5159115.43	1.20	0	4000	40.5	-62.5	0.0	0.0	50.9	3.3	-2.3	0.0	0.0	0.0	0.0	-0.0	-11.3	-114.3
144	705098.87	5159115.43	1.20	0	8000	36.8	-66.2	0.0	0.0	50.9	11.6	-2.3	0.0	0.0	0.0	0.0	-0.0	-23.4	-126.4
145	705100.11	5159113.86	1.20	0	63	33.0	-70.0	0.0	0.0	50.8	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	-14.2	-117.2
146	705100.11	5159113.86	1.20	0	125	45.1	-57.9	0.0	0.0	50.8	0.0	-1.7	0.0	0.0	0.0	0.0	-0.0	-3.9	-107.0
147	705100.11	5159113.86	1.20	0	250	43.4	-59.6	0.0	0.0	50.8	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	-10.0	-113.0
148	705100.11	5159113.86	1.20	0	500	46.7	-56.3	0.0	0.0	50.8	0.2	1.2	0.0	0.0	0.0	0.0	-0.0	-5.4	-108.4
149	705100.11	5159113.86	1.20	0	1000	49.7	-53.3	0.0	0.0	50.8	0.4	-1.8	0.0	0.0	0.0	0.0	-0.0	0.5	-102.6
150	705100.11	5159113.86	1.20	0	2000	45.8	-57.2	0.0	0.0	50.8	0.9	-2.3	0.0	0.0	0.0	0.0	-0.0	-3.6	-106.6
151	705100.11	5159113.86	1.20	0	4000	40.2	-62.8	0.0	0.0	50.8	3.2	-2.3	0.0	0.0	0.0	0.0	-0.0	-11.4	-114.4
152	705100.11	5159113.86	1.20	0	8000	36.5	-66.5	0.0	0.0	50.8	11.4	-2.3	0.0	0.0	0.0	0.0	-0.0	-23.3	-126.3
153	705099.46	5159111.47	1.20	0	63	32.4	-70.6	0.0	0.0	50.6	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	-14.7	-117.8
154	705099.46	5159111.47	1.20	0	125	44.5	-58.5	0.0	0.0	50.6	0.0	-1.6	0.0	0.0	0.0	0.0	-0.0	-4.6	-107.6
155	705099.46	5159111.47	1.20	0	250	42.8	-60.2	0.0	0.0	50.6	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	-10.9	-113.9
156	705099.46	5159111.47	1.20	0	500	46.1	-56.9	0.0	0.0	50.6	0.2	1.5	0.0	0.0	0.0	0.0	-0.0	-6.1	-109.2
157	705099.46	5159111.47	1.20	0	1000	49.1	-53.9	0.0	0.0	50.6	0.4	-1.7	0.0	0.0	0.0	0.0	-0.0	-0.2	-103.2
158	705099.46	5159111.47	1.20	0	2000	45.2	-57.8	0.0	0.0	50.6	0.9	-2.2	0.0	0.0	0.0	0.0	-0.0	-4.1	-107.1
159	705099.46	5159111.47	1.20	0	4000	39.6	-63.4	0.0	0.0	50.6	3.1	-2.2	0.0	0.0	0.0	0.0	-0.0	-12.0	-115.0
160	705099.46	5159111.47	1.20	0	8000	35.9	-67.1	0.0	0.0	50.6	11.2	-2.2	0.0	0.0	0.0	0.0	-0.0	-23.7	-126.7
161	705097.90	5159115.22	1.20	1	63	33.3	-69.7	0.0	0.0	51.2	0.0	-3.6	0.0	0.0	0.0	0.0	1.0	-15.3	-118.3
162	705097.90	5159115.22	1.20	1	125	45.4	-57.6	0.0	0.0	51.2	0.0	-1.8	0.0	0.0	0.0	0.0	1.0	-5.0	-108.0
163	705097.90	5159115.22	1.20	1	250	43.7	-59.3	0.0	0.0	51.2	0.1	2.5	0.0	0.0	0.0	0.0	1.0	-11.1	-114.1
164	705097.90	5159115.22	1.20	1	500	47.0	-56.0	0.0	0.0	51.2	0.2	1.1	0.0	0.0	0.0	0.0	1.0	-6.5	-109.5
165	705097.90	5159115.22	1.20	1	1000	50.0	-53.0	0.0	0.0	51.2	0.4	-2.0	0.0	0.0	0.0	0.0	1.0	-0.6	-103.6
166	705097.90	5159115.22	1.20	1	2000	46.1	-56.9	0.0	0.0	51.2	1.0	-2.4	0.0	0.0	0.0	0.0	1.0	-4.7	-107.7
167	705097.90	5159115.22	1.20	1	4000	40.5	-62.5	0.0	0.0	51.2	3.3	-2.4	0.0	0.0	0.0	0.0	1.0	-12.6	-115.6
168	705097.90	5159115.22	1.20	1	8000	36.8	-66.2	0.0	0.0	51.2	11.9	-2.4	0.0	0.0	0.0	0.0	1.0	-24.9	-127.9
169	705098.74	5159115.83	1.20	1	63	31.3	-71.7	0.0	0.0	51.1	0.0	-3.6	0.0	0.0	0.0	0.0	1.0	-17.3	-120.3
170	705098.74	5159115.83	1.20	1	125	43.4	-59.6	0.0	0.0	51.1	0.0	-1.8	0.0	0.0	0.0	0.0	1.0	-7.0	-110.0
171	705098.74	5159115.83	1.20	1	250	41.7	-61.3	0.0	0.0	51.1	0.1	2.5	0.0	0.0	0.0	0.0	1.0	-13.0	-116.1
172	705098.74	5159115.83	1.20	1	500	45.0	-58.0	0.0	0.0	51.1	0.2	1.1	0.0	0.0	0.0	0.0	1.0	-8.4	-111.4
173	705098.74	5159115.83	1.20	1	1000	48.0	-55.0	0.0	0.0	51.1	0.4	-1.9	0.0	0.0	0.0	0.0	1.0	-2.6	-105.6
174	705098.74	5159115.83	1.20	1	2000	44.1	-58.9	0.0	0.0	51.1	1.0	-2.4	0.0	0.0	0.0	0.0	1.0	-6.6	-109.6
175	705098.74	5159115.83	1.20	1	4000	38.5	-64.5	0.0	0.0	51.1	3.3	-2.4	0.0	0.0	0.0	0.0	1.0	-14.6	-117.6
176	705098.74	5159115.83	1.20	1	8000	34.8	-68.2	0.0	0.0	51.1	11.8	-2.4	0.0	0.0	0.0	0.0	1.0	-26.8	-129.8

vert. Area Source, ISO 9613, Name: "4", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705088.14	5159153.07	3.80	0	63	52.1	-88.0	3.0	0.0	53.6	0.0	-3.0	0.0	0.0	9.2	0.0	-0.0	-4.6	-88.0
2	705088.14	5159153.07	3.80	0	125	60.6	-88.0	3.0	0.0	53.6	0.1	-0.9	0.0	0.0	12.5	0.0	-0.0	-1.7	-88.0
3	705088.14	5159153.07	3.80	0	250	68.1	-88.0	3.0	0.0	53.6	0.1	3.2	0.0	0.0	14.5	0.0	-0.0	-0.3	-88.0
4	705088.14	5159153.07	3.80	0	500	71.7	-88.0	3.0	0.0	53.6	0.3	1.6	0.0	0.0	18.5	0.0	-0.0	0.7	-88.0
5	705088.14	5159153.07	3.80	0	1000	74.5	-88.0	3.0	0.0	53.6	0.5	-1.3	0.0	0.0	21.5	0.0	-0.0	3.3	-88.0
6	705088.14	5159153.07	3.80	0	2000	74.8	-88.0	3.0	0.0	53.6	1.3	-1.8	0.0	0.0	22.9	0.0	-0.0	1.8	-88.0
7	705088.14	5159153.07	3.80	0	4000	73.9	-88.0	3.0	0.0	53.6	4.4	-1.8	0.0	0.0	23.8	0.0	-0.0	-3.2	-88.0
8	705088.14	5159153.07	3.80	0	8000	72.7	-88.0	3.0	0.0	53.6	15.7	-1.8	0.0	0.0	24.4	0.0	-0.0	-16.3	-88.0
9	705088.14	5159153.07	2.80	0	63	52.1	-88.0	3.0	0.0	53.6	0.0	-3.1	0.0	0.0	9.7	0.0	-0.0	-5.0	-88.0
10	705088.14	5159153.07	2.80	0	125	60.6	-88.0	3.0	0.0	53.6	0.1	-1.4	0.0	0.0	13.0	0.0	-0.0	-1.7	-88.0
11	705088.14	5159153.07	2.80	0	250	68.1	-88.0	3.0	0.0	53.6	0.1	2.7	0.0	0.0	15.4	0.0	-0.0	-0.7	-88.0
12	705088.14	5159153.07	2.80	0	500	71.7	-88.0	3.0	0.0	53.6	0.3	1.3	0.0	0.0	19.2	0.0	-0.0	0.4	-88.0
13	705088.14	5159153.07	2.80	0	1000	74.5	-88.0	3.0	0.0	53.6	0.5	-1.6	0.0	0.0	21.5	0.0	-0.0	3.6	-88.0
14	705088.14	5159153.07	2.80	0	2000	74.8	-88.0	3.0	0.0	53.6	1.3	-2.0	0.0	0.0	22.9	0.0	-0.0	2.1	-88.0
15	705088.14	5159153.07	2.80	0	4000	73.9	-88.0	3.0	0.0	53.6	4.4	-2.0	0.0	0.0	23.8	0.0	-0.0	-2.9	-88.0
16	705088.14	5159153.07	2.80	0	8000	72.7	-88.0	3.0	0.0	53.6	15.7	-2.0	0.0	0.0	24.4	0.0	-0.0	-16.0	-88.0
17	705088.14	5159153.07	1.80	0	63	52.1	-88.0	3.0	0.0	53.6	0.0	-3.8	0.0	0.0	10.0	0.0	-0.0	-4.7	-88.0
18	705088.14	5159153.07	1.80	0	125	60.6	-88.0	3.0	0.0	53.6	0.1	-2.1	0.0	0.0	13.4	0.0	-0.0	-1.3	-88.0
19	705088.14	5159153.07	1.80	0	250	68.1	-88.0	3.0	0.0	53.6	0.1	2.0	0.0	0.0	16.1	0.0	-0.0	-0.8	-88.0

vert. Area Source, ISO 9613, Name: "4", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
20	705088.14	5159153.07	1.80	0	500	71.7	-88.0	3.0	0.0	53.6	0.3	0.6	0.0	0.0	19.4	0.0	-0.0	0.8	-88.0
21	705088.14	5159153.07	1.80	0	1000	74.5	-88.0	3.0	0.0	53.6	0.5	-2.3	0.0	0.0	21.5	0.0	-0.0	4.3	-88.0
22	705088.14	5159153.07	1.80	0	2000	74.8	-88.0	3.0	0.0	53.6	1.3	-2.7	0.0	0.0	22.9	0.0	-0.0	2.8	-88.0
23	705088.14	5159153.07	1.80	0	4000	73.9	-88.0	3.0	0.0	53.6	4.4	-2.7	0.0	0.0	23.8	0.0	-0.0	-2.2	-88.0
24	705088.14	5159153.07	1.80	0	8000	72.7	-88.0	3.0	0.0	53.6	15.7	-2.7	0.0	0.0	24.4	0.0	-0.0	-15.3	-88.0
25	705088.14	5159153.07	0.80	0	63	52.1	-88.0	3.0	0.0	53.6	0.0	-4.5	0.0	0.0	10.3	0.0	-0.0	-4.3	-88.0
26	705088.14	5159153.07	0.80	0	125	60.6	-88.0	3.0	0.0	53.6	0.1	-2.8	0.0	0.0	13.6	0.0	-0.0	-0.9	-88.0
27	705088.14	5159153.07	0.80	0	250	68.1	-88.0	3.0	0.0	53.6	0.1	1.4	0.0	0.0	16.5	0.0	-0.0	-0.6	-88.0
28	705088.14	5159153.07	0.80	0	500	71.7	-88.0	3.0	0.0	53.6	0.3	-0.0	0.0	0.0	19.6	0.0	-0.0	1.3	-88.0
29	705088.14	5159153.07	0.80	0	1000	74.5	-88.0	3.0	0.0	53.6	0.5	-2.9	0.0	0.0	21.5	0.0	-0.0	4.9	-88.0
30	705088.14	5159153.07	0.80	0	2000	74.8	-88.0	3.0	0.0	53.6	1.3	-3.4	0.0	0.0	22.9	0.0	-0.0	3.4	-88.0
31	705088.14	5159153.07	0.80	0	4000	73.9	-88.0	3.0	0.0	53.6	4.4	-3.4	0.0	0.0	23.8	0.0	-0.0	-1.5	-88.0
32	705088.14	5159153.07	0.80	0	8000	72.7	-88.0	3.0	0.0	53.6	15.7	-3.4	0.0	0.0	24.4	0.0	-0.0	-14.6	-88.0
33	705088.14	5159153.07	0.15	0	63	46.9	-88.0	3.0	0.0	53.6	0.0	-4.9	0.0	0.0	10.5	0.0	-0.0	-9.3	-88.0
34	705088.14	5159153.07	0.15	0	125	55.4	-88.0	3.0	0.0	53.6	0.1	-3.2	0.0	0.0	13.7	0.0	-0.0	-5.8	-88.0
35	705088.14	5159153.07	0.15	0	250	62.8	-88.0	3.0	0.0	53.6	0.1	0.9	0.0	0.0	16.8	0.0	-0.0	-5.6	-88.0
36	705088.14	5159153.07	0.15	0	500	66.5	-88.0	3.0	0.0	53.6	0.3	-0.5	0.0	0.0	19.6	0.0	-0.0	-3.5	-88.0
37	705088.14	5159153.07	0.15	0	1000	69.3	-88.0	3.0	0.0	53.6	0.5	-3.4	0.0	0.0	21.5	0.0	-0.0	0.1	-88.0
38	705088.14	5159153.07	0.15	0	2000	69.6	-88.0	3.0	0.0	53.6	1.3	-3.8	0.0	0.0	22.9	0.0	-0.0	-1.4	-88.0
39	705088.14	5159153.07	0.15	0	4000	68.7	-88.0	3.0	0.0	53.6	4.4	-3.8	0.0	0.0	23.8	0.0	-0.0	-6.3	-88.0
40	705088.14	5159153.07	0.15	0	8000	67.4	-88.0	3.0	0.0	53.6	15.7	-3.8	0.0	0.0	24.4	0.0	-0.0	-19.4	-88.0

vert. Area Source, ISO 9613, Name: "6", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705095.05	5159153.47	0.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-4.4	0.0	0.0	7.9	0.0	-0.0	-1.7	-88.0
2	705095.05	5159153.47	0.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	-2.8	0.0	0.0	10.3	0.0	-0.0	2.6	-88.0
3	705095.05	5159153.47	0.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	1.2	0.0	0.0	12.9	0.0	-0.0	3.5	-88.0
4	705095.05	5159153.47	0.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	-0.1	0.0	0.0	16.1	0.0	-0.0	5.1	-88.0
5	705095.05	5159153.47	0.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-2.9	0.0	0.0	18.5	0.0	-0.0	8.2	-88.0
6	705095.05	5159153.47	0.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-3.4	0.0	0.0	20.6	0.0	-0.0	6.0	-88.0
7	705095.05	5159153.47	0.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-3.4	0.0	0.0	22.2	0.0	-0.0	0.4	-88.0
8	705095.05	5159153.47	0.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.3	-3.4	0.0	0.0	23.4	0.0	-0.0	-13.0	-88.0
9	705095.05	5159153.47	3.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-3.0	0.0	0.0	7.1	0.0	-0.0	-2.3	-88.0
10	705095.05	5159153.47	3.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	-0.9	0.0	0.0	9.6	0.0	-0.0	1.5	-88.0
11	705095.05	5159153.47	3.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	3.1	0.0	0.0	11.4	0.0	-0.0	3.1	-88.0
12	705095.05	5159153.47	3.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	1.5	0.0	0.0	15.3	0.0	-0.0	4.3	-88.0
13	705095.05	5159153.47	3.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-1.3	0.0	0.0	18.5	0.0	-0.0	6.6	-88.0
14	705095.05	5159153.47	3.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-1.8	0.0	0.0	20.6	0.0	-0.0	4.4	-88.0
15	705095.05	5159153.47	3.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-1.8	0.0	0.0	22.2	0.0	-0.0	-1.2	-88.0
16	705095.05	5159153.47	3.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.3	-1.8	0.0	0.0	23.4	0.0	-0.0	-14.6	-88.0
17	705095.05	5159153.47	2.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-3.0	0.0	0.0	7.5	0.0	-0.0	-2.7	-88.0
18	705095.05	5159153.47	2.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	-1.4	0.0	0.0	9.9	0.0	-0.0	1.7	-88.0
19	705095.05	5159153.47	2.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	2.6	0.0	0.0	12.1	0.0	-0.0	2.9	-88.0
20	705095.05	5159153.47	2.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	1.2	0.0	0.0	15.7	0.0	-0.0	4.2	-88.0
21	705095.05	5159153.47	2.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-1.6	0.0	0.0	18.5	0.0	-0.0	6.8	-88.0
22	705095.05	5159153.47	2.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-2.0	0.0	0.0	20.6	0.0	-0.0	4.6	-88.0
23	705095.05	5159153.47	2.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-2.0	0.0	0.0	22.2	0.0	-0.0	-1.0	-88.0
24	705095.05	5159153.47	2.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.3	-2.0	0.0	0.0	23.4	0.0	-0.0	-14.4	-88.0
25	705095.05	5159153.47	1.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-3.7	0.0	0.0	7.7	0.0	-0.0	-2.2	-88.0
26	705095.05	5159153.47	1.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	-2.1	0.0	0.0	10.2	0.0	-0.0	2.1	-88.0
27	705095.05	5159153.47	1.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	1.9	0.0	0.0	12.6	0.0	-0.0	3.1	-88.0
28	705095.05	5159153.47	1.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	0.5	0.0	0.0	16.0	0.0	-0.0	4.6	-88.0
29	705095.05	5159153.47	1.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-2.3	0.0	0.0	18.5	0.0	-0.0	7.5	-88.0
30	705095.05	5159153.47	1.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-2.7	0.0	0.0	20.6	0.0	-0.0	5.3	-88.0
31	705095.05	5159153.47	1.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-2.7	0.0	0.0	22.2	0.0	-0.0	-0.3	-88.0
32	705095.05	5159153.47	1.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.3	-2.7	0.0	0.0	23.4	0.0	-0.0	-13.7	-88.0
33	705095.05	5159153.47	0.15	0	63	46.9	-88.0	3.0	0.0	53.3	0.0	-4.9	0.0	0.0	8.0	0.0	-0.0	-6.6	-88.0
34	705095.05	5159153.47	0.15	0	125	55.4	-88.0	3.0	0.0	53.3	0.1	-3.2	0.0	0.0	10.4	0.0	-0.0	-2.2	-88.0
35	705095.05	5159153.47	0.15	0	250	62.8	-88.0	3.0	0.0	53.3	0.1	0.7	0.0	0.0	13.1	0.0	-0.0	-1.5	-88.0
36	705095.05	5159153.47	0.15	0	500	66.5	-88.0	3.0	0.0	53.3	0.3	-0.6	0.0	0.0	16.1	0.0	-0.0	0.4	-88.0
37	705095.05	5159153.47	0.15	0	1000	69.3	-88.0	3.0	0.0	53.3	0.5	-3.4	0.0	0.0	18.5	0.0	-0.0	3.4	-88.0
38	705095.05	5159153.47	0.15	0	2000	69.6	-88.0	3.0	0.0	53.3	1.3	-3.8	0.0	0.0	20.6	0.0	-0.0	1.2	-88.0

vert. Area Source, ISO 9613, Name: "6", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
39	705095.05	5159153.47	0.15	0	4000	68.7	-88.0	3.0	0.0	53.3	4.3	-3.8	0.0	0.0	22.2	0.0	-0.0	-4.4	-88.0
40	705095.05	5159153.47	0.15	0	8000	67.4	-88.0	3.0	0.0	53.3	15.3	-3.8	0.0	0.0	23.4	0.0	-0.0	-17.8	-88.0

vert. Area Source, ISO 9613, Name: "5", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705090.31	5159116.41	3.80	0	63	52.1	-88.0	3.0	0.0	51.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.6	-88.0
2	705090.31	5159116.41	3.80	0	125	60.6	-88.0	3.0	0.0	51.5	0.0	0.3	0.0	0.0	0.0	0.0	-0.0	11.7	-88.0
3	705090.31	5159116.41	3.80	0	250	68.1	-88.0	3.0	0.0	51.5	0.1	4.8	0.0	0.0	0.0	0.0	-0.0	14.6	-88.0
4	705090.31	5159116.41	3.80	0	500	71.7	-88.0	3.0	0.0	51.5	0.2	2.5	0.0	0.0	0.0	0.0	-0.0	20.5	-88.0
5	705090.31	5159116.41	3.80	0	1000	74.5	-88.0	3.0	0.0	51.5	0.4	-0.7	0.0	0.0	0.0	0.0	-0.0	26.3	-88.0
6	705090.31	5159116.41	3.80	0	2000	74.8	-88.0	3.0	0.0	51.5	1.0	-1.2	0.0	0.0	0.0	0.0	-0.0	26.5	-88.0
7	705090.31	5159116.41	3.80	0	4000	73.9	-88.0	3.0	0.0	51.5	3.5	-1.2	0.0	0.0	0.0	0.0	-0.0	23.1	-88.0
8	705090.31	5159116.41	3.80	0	8000	72.7	-88.0	3.0	0.0	51.5	12.4	-1.2	0.0	0.0	0.0	0.0	-0.0	12.9	-88.0
9	705090.31	5159116.41	2.80	0	63	52.1	-88.0	3.0	0.0	51.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.6	-88.0
10	705090.31	5159116.41	2.80	0	125	60.6	-88.0	3.0	0.0	51.5	0.0	-0.4	0.0	0.0	0.0	0.0	-0.0	12.5	-88.0
11	705090.31	5159116.41	2.80	0	250	68.1	-88.0	3.0	0.0	51.5	0.1	4.6	0.0	0.0	0.0	0.0	-0.0	14.8	-88.0
12	705090.31	5159116.41	2.80	0	500	71.7	-88.0	3.0	0.0	51.5	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	20.6	-88.0
13	705090.31	5159116.41	2.80	0	1000	74.5	-88.0	3.0	0.0	51.5	0.4	-0.9	0.0	0.0	0.0	0.0	-0.0	26.6	-88.0
14	705090.31	5159116.41	2.80	0	2000	74.8	-88.0	3.0	0.0	51.5	1.0	-1.4	0.0	0.0	0.0	0.0	-0.0	26.7	-88.0
15	705090.31	5159116.41	2.80	0	4000	73.9	-88.0	3.0	0.0	51.5	3.5	-1.4	0.0	0.0	0.0	0.0	-0.0	23.3	-88.0
16	705090.31	5159116.41	2.80	0	8000	72.7	-88.0	3.0	0.0	51.5	12.4	-1.4	0.0	0.0	0.0	0.0	-0.0	13.2	-88.0
17	705090.31	5159116.41	0.80	0	63	52.1	-88.0	3.0	0.0	51.5	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	7.6	-88.0
18	705090.31	5159116.41	0.80	0	125	60.6	-88.0	3.0	0.0	51.5	0.0	-2.2	0.0	0.0	0.0	0.0	-0.0	14.2	-88.0
19	705090.31	5159116.41	0.80	0	250	68.1	-88.0	3.0	0.0	51.5	0.1	2.4	0.0	0.0	0.0	0.0	-0.0	17.0	-88.0
20	705090.31	5159116.41	0.80	0	500	71.7	-88.0	3.0	0.0	51.5	0.2	0.9	0.0	0.0	0.0	0.0	-0.0	22.1	-88.0
21	705090.31	5159116.41	0.80	0	1000	74.5	-88.0	3.0	0.0	51.5	0.4	-2.3	0.0	0.0	0.0	0.0	-0.0	27.9	-88.0
22	705090.31	5159116.41	0.80	0	2000	74.8	-88.0	3.0	0.0	51.5	1.0	-2.8	0.0	0.0	0.0	0.0	-0.0	28.1	-88.0
23	705090.31	5159116.41	0.80	0	4000	73.9	-88.0	3.0	0.0	51.5	3.5	-2.8	0.0	0.0	0.0	0.0	-0.0	24.7	-88.0
24	705090.31	5159116.41	0.80	0	8000	72.7	-88.0	3.0	0.0	51.5	12.4	-2.8	0.0	0.0	0.0	0.0	-0.0	14.6	-88.0
25	705090.31	5159116.41	1.80	0	63	52.1	-88.0	3.0	0.0	51.5	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	6.8	-88.0
26	705090.31	5159116.41	1.80	0	125	60.6	-88.0	3.0	0.0	51.5	0.0	-1.3	0.0	0.0	0.0	0.0	-0.0	13.4	-88.0
27	705090.31	5159116.41	1.80	0	250	68.1	-88.0	3.0	0.0	51.5	0.1	3.3	0.0	0.0	0.0	0.0	-0.0	16.2	-88.0
28	705090.31	5159116.41	1.80	0	500	71.7	-88.0	3.0	0.0	51.5	0.2	1.7	0.0	0.0	0.0	0.0	-0.0	21.3	-88.0
29	705090.31	5159116.41	1.80	0	1000	74.5	-88.0	3.0	0.0	51.5	0.4	-1.5	0.0	0.0	0.0	0.0	-0.0	27.1	-88.0
30	705090.31	5159116.41	1.80	0	2000	74.8	-88.0	3.0	0.0	51.5	1.0	-1.9	0.0	0.0	0.0	0.0	-0.0	27.2	-88.0
31	705090.31	5159116.41	1.80	0	4000	73.9	-88.0	3.0	0.0	51.5	3.5	-1.9	0.0	0.0	0.0	0.0	-0.0	23.9	-88.0
32	705090.31	5159116.41	1.80	0	8000	72.7	-88.0	3.0	0.0	51.5	12.4	-1.9	0.0	0.0	0.0	0.0	-0.0	13.7	-88.0
33	705090.31	5159116.41	0.15	0	63	46.9	-88.0	3.0	0.0	51.5	0.0	-4.6	0.0	0.0	0.0	0.0	-0.0	3.0	-88.0
34	705090.31	5159116.41	0.15	0	125	55.4	-88.0	3.0	0.0	51.5	0.0	-2.7	0.0	0.0	0.0	0.0	-0.0	9.5	-88.0
35	705090.31	5159116.41	0.15	0	250	62.8	-88.0	3.0	0.0	51.5	0.1	1.8	0.0	0.0	0.0	0.0	-0.0	12.4	-88.0
36	705090.31	5159116.41	0.15	0	500	66.5	-88.0	3.0	0.0	51.5	0.2	0.3	0.0	0.0	0.0	0.0	-0.0	17.4	-88.0
37	705090.31	5159116.41	0.15	0	1000	69.3	-88.0	3.0	0.0	51.5	0.4	-2.8	0.0	0.0	0.0	0.0	-0.0	23.3	-88.0
38	705090.31	5159116.41	0.15	0	2000	69.6	-88.0	3.0	0.0	51.5	1.0	-3.3	0.0	0.0	0.0	0.0	-0.0	23.4	-88.0
39	705090.31	5159116.41	0.15	0	4000	68.7	-88.0	3.0	0.0	51.5	3.5	-3.3	0.0	0.0	0.0	0.0	-0.0	20.0	-88.0
40	705090.31	5159116.41	0.15	0	8000	67.4	-88.0	3.0	0.0	51.5	12.4	-3.3	0.0	0.0	0.0	0.0	-0.0	9.9	-88.0

vert. Area Source, ISO 9613, Name: "7", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705097.13	5159116.81	1.80	0	63	52.1	-88.0	3.0	0.0	51.1	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	7.1	-88.0
2	705097.13	5159116.81	1.80	0	125	60.6	-88.0	3.0	0.0	51.1	0.0	-1.3	0.0	0.0	0.0	0.0	-0.0	13.7	-88.0
3	705097.13	5159116.81	1.80	0	250	68.1	-88.0	3.0	0.0	51.1	0.1	3.1	0.0	0.0	0.0	0.0	-0.0	16.7	-88.0
4	705097.13	5159116.81	1.80	0	500	71.7	-88.0	3.0	0.0	51.1	0.2	1.7	0.0	0.0	0.0	0.0	-0.0	21.7	-88.0
5	705097.13	5159116.81	1.80	0	1000	74.5	-88.0	3.0	0.0	51.1	0.4	-1.4	0.0	0.0	0.0	0.0	-0.0	27.4	-88.0
6	705097.13	5159116.81	1.80	0	2000	74.8	-88.0	3.0	0.0	51.1	1.0	-1.9	0.0	0.0	0.0	0.0	-0.0	27.6	-88.0
7	705097.13	5159116.81	1.80	0	4000	73.9	-88.0	3.0	0.0	51.1	3.3	-1.9	0.0	0.0	0.0	0.0	-0.0	24.3	-88.0
8	705097.13	5159116.81	1.80	0	8000	72.7	-88.0	3.0	0.0	51.1	11.8	-1.9	0.0	0.0	0.0	0.0	-0.0	14.6	-88.0
9	705097.13	5159116.81	3.80	0	63	52.1	-88.0	3.0	0.0	51.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.0	-88.0
10	705097.13	5159116.81	3.80	0	125	60.6	-88.0	3.0	0.0	51.1	0.0	0.2	0.0	0.0	0.0	0.0	-0.0	12.3	-88.0
11	705097.13	5159116.81	3.80	0	250	68.1	-88.0	3.0	0.0	51.1	0.1	4.5	0.0	0.0	0.0	0.0	-0.0	15.4	-88.0
12	705097.13	5159116.81	3.80	0	500	71.7	-88.0	3.0	0.0	51.1	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	21.1	-88.0
13	705097.13	5159116.81	3.80	0	1000	74.5	-88.0	3.0	0.0	51.1	0.4	-0.8	0.0	0.0	0.0	0.0	-0.0	26.8	-88.0

vert. Area Source, ISO 9613, Name: "7", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
14	705097.13	5159116.81	3.80	0	2000	74.8	-88.0	3.0	0.0	51.1	1.0	-1.2	0.0	0.0	0.0	0.0	-0.0	27.0	-88.0
15	705097.13	5159116.81	3.80	0	4000	73.9	-88.0	3.0	0.0	51.1	3.3	-1.2	0.0	0.0	0.0	0.0	-0.0	23.7	-88.0
16	705097.13	5159116.81	3.80	0	8000	72.7	-88.0	3.0	0.0	51.1	11.9	-1.2	0.0	0.0	0.0	0.0	-0.0	14.0	-88.0
17	705097.13	5159116.81	0.80	0	63	52.1	-88.0	3.0	0.0	51.1	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	8.0	-88.0
18	705097.13	5159116.81	0.80	0	125	60.6	-88.0	3.0	0.0	51.1	0.0	-2.1	0.0	0.0	0.0	0.0	-0.0	14.6	-88.0
19	705097.13	5159116.81	0.80	0	250	68.1	-88.0	3.0	0.0	51.1	0.1	2.2	0.0	0.0	0.0	0.0	-0.0	17.6	-88.0
20	705097.13	5159116.81	0.80	0	500	71.7	-88.0	3.0	0.0	51.1	0.2	0.8	0.0	0.0	0.0	0.0	-0.0	22.6	-88.0
21	705097.13	5159116.81	0.80	0	1000	74.5	-88.0	3.0	0.0	51.1	0.4	-2.3	0.0	0.0	0.0	0.0	-0.0	28.3	-88.0
22	705097.13	5159116.81	0.80	0	2000	74.8	-88.0	3.0	0.0	51.1	1.0	-2.7	0.0	0.0	0.0	0.0	-0.0	28.5	-88.0
23	705097.13	5159116.81	0.80	0	4000	73.9	-88.0	3.0	0.0	51.1	3.3	-2.7	0.0	0.0	0.0	0.0	-0.0	25.2	-88.0
24	705097.13	5159116.81	0.80	0	8000	72.7	-88.0	3.0	0.0	51.1	11.8	-2.7	0.0	0.0	0.0	0.0	-0.0	15.5	-88.0
25	705097.13	5159116.81	2.80	0	63	52.1	-88.0	3.0	0.0	51.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.0	-88.0
26	705097.13	5159116.81	2.80	0	125	60.6	-88.0	3.0	0.0	51.1	0.0	-0.5	0.0	0.0	0.0	0.0	-0.0	12.9	-88.0
27	705097.13	5159116.81	2.80	0	250	68.1	-88.0	3.0	0.0	51.1	0.1	4.4	0.0	0.0	0.0	0.0	-0.0	15.4	-88.0
28	705097.13	5159116.81	2.80	0	500	71.7	-88.0	3.0	0.0	51.1	0.2	2.2	0.0	0.0	0.0	0.0	-0.0	21.2	-88.0
29	705097.13	5159116.81	2.80	0	1000	74.5	-88.0	3.0	0.0	51.1	0.4	-1.0	0.0	0.0	0.0	0.0	-0.0	27.0	-88.0
30	705097.13	5159116.81	2.80	0	2000	74.8	-88.0	3.0	0.0	51.1	1.0	-1.4	0.0	0.0	0.0	0.0	-0.0	27.2	-88.0
31	705097.13	5159116.81	2.80	0	4000	73.9	-88.0	3.0	0.0	51.1	3.3	-1.4	0.0	0.0	0.0	0.0	-0.0	23.9	-88.0
32	705097.13	5159116.81	2.80	0	8000	72.7	-88.0	3.0	0.0	51.1	11.8	-1.4	0.0	0.0	0.0	0.0	-0.0	14.1	-88.0
33	705097.13	5159116.81	0.15	0	63	46.9	-88.0	3.0	0.0	51.1	0.0	-4.5	0.0	0.0	0.0	0.0	-0.0	3.3	-88.0
34	705097.13	5159116.81	0.15	0	125	55.4	-88.0	3.0	0.0	51.1	0.0	-2.7	0.0	0.0	0.0	0.0	-0.0	9.9	-88.0
35	705097.13	5159116.81	0.15	0	250	62.8	-88.0	3.0	0.0	51.1	0.1	1.6	0.0	0.0	0.0	0.0	-0.0	13.0	-88.0
36	705097.13	5159116.81	0.15	0	500	66.5	-88.0	3.0	0.0	51.1	0.2	0.2	0.0	0.0	0.0	0.0	-0.0	18.0	-88.0
37	705097.13	5159116.81	0.15	0	1000	69.3	-88.0	3.0	0.0	51.1	0.4	-2.8	0.0	0.0	0.0	0.0	-0.0	23.7	-88.0
38	705097.13	5159116.81	0.15	0	2000	69.6	-88.0	3.0	0.0	51.1	1.0	-3.3	0.0	0.0	0.0	0.0	-0.0	23.8	-88.0
39	705097.13	5159116.81	0.15	0	4000	68.7	-88.0	3.0	0.0	51.1	3.3	-3.3	0.0	0.0	0.0	0.0	-0.0	20.5	-88.0
40	705097.13	5159116.81	0.15	0	8000	67.4	-88.0	3.0	0.0	51.1	11.8	-3.3	0.0	0.0	0.0	0.0	-0.0	10.8	-88.0

Receiver
Name: POR1b
ID:
X: 705173.10
Y: 5159015.96
Z: 1.50

Point Source, ISO 9613, Name: "1", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705096.80	5159134.86	7.70	0	63	60.2	59.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.2	7.9
2	705096.80	5159134.86	7.70	0	125	71.3	70.1	0.0	0.0	54.0	0.1	0.7	0.0	0.0	0.0	0.0	-0.0	16.6	15.3
3	705096.80	5159134.86	7.70	0	250	78.8	77.6	0.0	0.0	54.0	0.2	5.8	0.0	0.0	0.0	0.0	-0.0	18.8	17.6
4	705096.80	5159134.86	7.70	0	500	83.2	82.0	0.0	0.0	54.0	0.3	3.9	0.0	0.0	0.0	0.0	-0.0	25.0	23.8
5	705096.80	5159134.86	7.70	0	1000	84.4	83.2	0.0	0.0	54.0	0.5	-0.2	0.0	0.0	0.0	0.0	-0.0	30.1	28.8
6	705096.80	5159134.86	7.70	0	2000	81.6	80.4	0.0	0.0	54.0	1.4	-0.8	0.0	0.0	0.0	0.0	-0.0	27.0	25.8
7	705096.80	5159134.86	7.70	0	4000	77.4	76.2	0.0	0.0	54.0	4.6	-0.8	0.0	0.0	0.0	0.0	-0.0	19.6	18.3
8	705096.80	5159134.86	7.70	0	8000	69.3	68.1	0.0	0.0	54.0	16.5	-0.8	0.0	0.0	0.0	0.0	-0.0	-0.4	-1.7

Point Source, ISO 9613, Name: "2", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705097.04	5159129.84	7.70	0	500	82.1	82.1	0.0	0.0	53.7	0.3	3.9	0.0	0.0	0.0	0.0	-0.0	24.2	24.2

Point Source, ISO 9613, Name: "3", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705097.36	5159124.79	7.70	0	500	82.1	82.1	0.0	0.0	53.5	0.3	3.7	0.0	0.0	0.0	0.0	-0.0	24.7	24.7

Point Source, ISO 9613, Name: "10", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705196.17	5159157.62	2.40	0	63	54.1	49.3	0.0	0.0	54.1	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	3.5	-1.3
2	705196.17	5159157.62	2.40	0	125	63.6	58.8	0.0	0.0	54.1	0.1	-0.9	0.0	0.0	0.0	0.0	-0.0	10.3	5.5
3	705196.17	5159157.62	2.40	0	250	69.1	64.3	0.0	0.0	54.1	0.2	4.8	0.0	0.0	0.0	0.0	-0.0	10.0	5.3
4	705196.17	5159157.62	2.40	0	500	75.7	70.9	0.0	0.0	54.1	0.3	2.9	0.0	0.0	0.0	0.0	-0.0	18.4	13.6
5	705196.17	5159157.62	2.40	0	1000	79.1	74.3	0.0	0.0	54.1	0.5	-1.2	0.0	0.0	0.0	0.0	-0.0	25.6	20.8
6	705196.17	5159157.62	2.40	0	2000	76.6	71.8	0.0	0.0	54.1	1.4	-1.8	0.0	0.0	0.0	0.0	-0.0	22.9	18.1
7	705196.17	5159157.62	2.40	0	4000	71.1	66.3	0.0	0.0	54.1	4.7	-1.8	0.0	0.0	0.0	0.0	-0.0	14.0	9.3
8	705196.17	5159157.62	2.40	0	8000	62.8	58.0	0.0	0.0	54.1	16.8	-1.8	0.0	0.0	0.0	0.0	-0.0	-6.3	-11.1

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705109.73	5159058.19	2.40	0	63	55.2	52.2	0.0	0.0	48.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.6	6.6
2	705109.73	5159058.19	2.40	0	125	69.3	66.3	0.0	0.0	48.6	0.0	1.6	0.0	0.0	0.0	0.0	-0.0	19.0	16.0
3	705109.73	5159058.19	2.40	0	250	75.8	72.8	0.0	0.0	48.6	0.1	9.3	0.0	0.0	0.0	0.0	-0.0	17.8	14.8
4	705109.73	5159058.19	2.40	0	500	78.2	75.2	0.0	0.0	48.6	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	24.9	21.9
5	705109.73	5159058.19	2.40	0	1000	77.4	74.4	0.0	0.0	48.6	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	28.0	25.0
6	705109.73	5159058.19	2.40	0	2000	75.6	72.6	0.0	0.0	48.6	0.7	-0.1	0.0	0.0	0.0	0.0	-0.0	26.3	23.3
7	705109.73	5159058.19	2.40	0	4000	68.4	65.4	0.0	0.0	48.6	2.5	-0.1	0.0	0.0	0.0	0.0	-0.0	17.3	14.3
8	705109.73	5159058.19	2.40	0	8000	59.3	56.3	0.0	0.0	48.6	8.9	-0.1	0.0	0.0	0.0	0.0	-0.0	1.8	-1.2
9	705111.32	5159032.45	2.40	0	63	55.2	52.2	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	11.1	8.1
10	705111.32	5159032.45	2.40	0	125	69.3	66.3	0.0	0.0	47.1	0.0	1.5	0.0	0.0	0.0	0.0	-0.0	20.7	17.7
11	705111.32	5159032.45	2.40	0	250	75.8	72.8	0.0	0.0	47.1	0.1	8.6	0.0	0.0	0.0	0.0	-0.0	20.0	17.0
12	705111.32	5159032.45	2.40	0	500	78.2	75.2	0.0	0.0	47.1	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	26.8	23.7
13	705111.32	5159032.45	2.40	0	1000	77.4	74.4	0.0	0.0	47.1	0.2	0.5	0.0	0.0	0.0	0.0	-0.0	29.6	26.6
14	705111.32	5159032.45	2.40	0	2000	75.6	72.6	0.0	0.0	47.1	0.6	-0.1	0.0	0.0	0.0	0.0	-0.0	27.9	24.9
15	705111.32	5159032.45	2.40	0	4000	68.4	65.4	0.0	0.0	47.1	2.1	-0.1	0.0	0.0	0.0	0.0	-0.0	19.3	16.3
16	705111.32	5159032.45	2.40	0	8000	59.3	56.3	0.0	0.0	47.1	7.5	-0.1	0.0	0.0	0.0	0.0	-0.0	4.8	1.8
17	705112.90	5159006.72	2.40	0	63	55.2	52.2	0.0	0.0	46.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	11.5	8.5
18	705112.90	5159006.72	2.40	0	125	69.3	66.3	0.0	0.0	46.7	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	21.3	18.3
19	705112.90	5159006.72	2.40	0	250	75.8	72.8	0.0	0.0	46.7	0.1	8.2	0.0	0.0	0.0	0.0	-0.0	20.8	17.8

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
20	705112.90	5159006.72	2.40	0	500	78.2	75.2	0.0	0.0	46.7	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	27.4	24.3
21	705112.90	5159006.72	2.40	0	1000	77.4	74.4	0.0	0.0	46.7	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	30.1	27.1
22	705112.90	5159006.72	2.40	0	2000	75.6	72.6	0.0	0.0	46.7	0.6	-0.1	0.0	0.0	0.0	0.0	-0.0	28.4	25.4
23	705112.90	5159006.72	2.40	0	4000	68.4	65.4	0.0	0.0	46.7	2.0	-0.1	0.0	0.0	0.0	0.0	-0.0	19.8	16.8
24	705112.90	5159006.72	2.40	0	8000	59.3	56.3	0.0	0.0	46.7	7.1	-0.1	0.0	0.0	0.0	0.0	-0.0	5.6	2.6
25	705114.49	5158980.98	2.40	0	63	55.2	52.2	0.0	0.0	47.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.5	7.5
26	705114.49	5158980.98	2.40	0	125	69.3	66.3	0.0	0.0	47.7	0.0	1.5	0.0	0.0	0.0	0.0	-0.0	20.1	17.1
27	705114.49	5158980.98	2.40	0	250	75.8	72.8	0.0	0.0	47.7	0.1	8.9	0.0	0.0	0.0	0.0	-0.0	19.2	16.2
28	705114.49	5158980.98	2.40	0	500	78.2	75.2	0.0	0.0	47.7	0.1	4.4	0.0	0.0	0.0	0.0	-0.0	26.0	23.0
29	705114.49	5158980.98	2.40	0	1000	77.4	74.4	0.0	0.0	47.7	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	29.0	26.0
30	705114.49	5158980.98	2.40	0	2000	75.6	72.6	0.0	0.0	47.7	0.7	-0.1	0.0	0.0	0.0	0.0	-0.0	27.3	24.3
31	705114.49	5158980.98	2.40	0	4000	68.4	65.4	0.0	0.0	47.7	2.2	-0.1	0.0	0.0	0.0	0.0	-0.0	18.6	15.5
32	705114.49	5158980.98	2.40	0	8000	59.3	56.3	0.0	0.0	47.7	8.0	-0.1	0.0	0.0	0.0	0.0	-0.0	3.7	0.7
33	705107.05	5158979.17	2.40	0	63	54.8	51.8	0.0	0.0	48.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.2	6.2
34	705107.05	5158979.17	2.40	0	125	68.9	65.9	0.0	0.0	48.6	0.0	1.3	0.0	0.0	0.0	0.0	-0.0	19.0	16.0
35	705107.05	5158979.17	2.40	0	250	75.4	72.4	0.0	0.0	48.6	0.1	8.7	0.0	0.0	0.0	0.0	-0.0	18.1	15.1
36	705107.05	5158979.17	2.40	0	500	77.8	74.8	0.0	0.0	48.6	0.2	4.3	0.0	0.0	0.0	0.0	-0.0	24.8	21.8
37	705107.05	5158979.17	2.40	0	1000	77.0	74.0	0.0	0.0	48.6	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	27.8	24.8
38	705107.05	5158979.17	2.40	0	2000	75.2	72.2	0.0	0.0	48.6	0.7	-0.2	0.0	0.0	0.0	0.0	-0.0	26.1	23.1
39	705107.05	5158979.17	2.40	0	4000	68.0	65.0	0.0	0.0	48.6	2.5	-0.2	0.0	0.0	0.0	0.0	-0.0	17.2	14.2
40	705107.05	5158979.17	2.40	0	8000	58.9	55.9	0.0	0.0	48.6	8.8	-0.2	0.0	0.0	0.0	0.0	-0.0	1.7	-1.3
41	705105.78	5159002.55	2.40	0	63	54.8	51.8	0.0	0.0	47.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.1	7.0
42	705105.78	5159002.55	2.40	0	125	68.9	65.9	0.0	0.0	47.7	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	19.9	16.9
43	705105.78	5159002.55	2.40	0	250	75.4	72.4	0.0	0.0	47.7	0.1	8.3	0.0	0.0	0.0	0.0	-0.0	19.3	16.3
44	705105.78	5159002.55	2.40	0	500	77.8	74.8	0.0	0.0	47.7	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	25.8	22.8
45	705105.78	5159002.55	2.40	0	1000	77.0	74.0	0.0	0.0	47.7	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	28.7	25.7
46	705105.78	5159002.55	2.40	0	2000	75.2	72.2	0.0	0.0	47.7	0.7	-0.2	0.0	0.0	0.0	0.0	-0.0	27.0	24.0
47	705105.78	5159002.55	2.40	0	4000	68.0	65.0	0.0	0.0	47.7	2.3	-0.2	0.0	0.0	0.0	0.0	-0.0	18.2	15.2
48	705105.78	5159002.55	2.40	0	8000	58.9	55.9	0.0	0.0	47.7	8.0	-0.2	0.0	0.0	0.0	0.0	-0.0	3.4	0.4
49	705104.50	5159025.92	2.40	0	63	54.8	51.8	0.0	0.0	47.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.0	7.0
50	705104.50	5159025.92	2.40	0	125	68.9	65.9	0.0	0.0	47.8	0.0	1.3	0.0	0.0	0.0	0.0	-0.0	19.8	16.8
51	705104.50	5159025.92	2.40	0	250	75.4	72.4	0.0	0.0	47.8	0.1	8.4	0.0	0.0	0.0	0.0	-0.0	19.2	16.2
52	705104.50	5159025.92	2.40	0	500	77.8	74.8	0.0	0.0	47.8	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	25.7	22.7
53	705104.50	5159025.92	2.40	0	1000	77.0	74.0	0.0	0.0	47.8	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	28.6	25.6
54	705104.50	5159025.92	2.40	0	2000	75.2	72.2	0.0	0.0	47.8	0.7	-0.2	0.0	0.0	0.0	0.0	-0.0	26.9	23.9
55	705104.50	5159025.92	2.40	0	4000	68.0	65.0	0.0	0.0	47.8	2.3	-0.2	0.0	0.0	0.0	0.0	-0.0	18.1	15.1
56	705104.50	5159025.92	2.40	0	8000	58.9	55.9	0.0	0.0	47.8	8.1	-0.2	0.0	0.0	0.0	0.0	-0.0	3.2	0.2
57	705103.23	5159049.30	2.40	0	63	54.8	51.8	0.0	0.0	48.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.0	6.0
58	705103.23	5159049.30	2.40	0	125	68.9	65.9	0.0	0.0	48.8	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	18.7	15.7
59	705103.23	5159049.30	2.40	0	250	75.4	72.4	0.0	0.0	48.8	0.1	8.8	0.0	0.0	0.0	0.0	-0.0	17.8	14.7
60	705103.23	5159049.30	2.40	0	500	77.8	74.8	0.0	0.0	48.8	0.2	4.4	0.0	0.0	0.0	0.0	-0.0	24.5	21.5
61	705103.23	5159049.30	2.40	0	1000	77.0	74.0	0.0	0.0	48.8	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	27.6	24.6
62	705103.23	5159049.30	2.40	0	2000	75.2	72.2	0.0	0.0	48.8	0.8	-0.2	0.0	0.0	0.0	0.0	-0.0	25.9	22.9
63	705103.23	5159049.30	2.40	0	4000	68.0	65.0	0.0	0.0	48.8	2.5	-0.2	0.0	0.0	0.0	0.0	-0.0	16.9	13.9
64	705103.23	5159049.30	2.40	0	8000	58.9	55.9	0.0	0.0	48.8	9.1	-0.2	0.0	0.0	0.0	0.0	-0.0	1.3	-1.7
65	705133.76	5159088.68	2.40	0	63	57.1	54.1	0.0	0.0	49.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.7	7.7
66	705133.76	5159088.68	2.40	0	125	71.2	68.2	0.0	0.0	49.3	0.0	1.1	0.0	0.0	0.0	0.0	-0.0	20.7	17.7
67	705133.76	5159088.68	2.40	0	250	77.7	74.7	0.0	0.0	49.3	0.1	8.3	0.0	0.0	0.0	0.0	-0.0	20.0	17.0
68	705133.76	5159088.68	2.40	0	500	80.1	77.1	0.0	0.0	49.3	0.2	4.2	0.0	0.0	0.0	0.0	-0.0	26.4	23.4
69	705133.76	5159088.68	2.40	0	1000	79.3	76.3	0.0	0.0	49.3	0.3	0.1	0.0	0.0	0.0	0.0	-0.0	29.5	26.5
70	705133.76	5159088.68	2.40	0	2000	77.5	74.5	0.0	0.0	49.3	0.8	-0.4	0.0	0.0	0.0	0.0	-0.0	27.7	24.7
71	705133.76	5159088.68	2.40	0	4000	70.3	67.3	0.0	0.0	49.3	2.7	-0.4	0.0	0.0	0.0	0.0	-0.0	18.6	15.6
72	705133.76	5159088.68	2.40	0	8000	61.2	58.2	0.0	0.0	49.3	9.7	-0.4	0.0	0.0	0.0	0.0	-0.0	2.6	-0.4
73	705173.75	5159107.67	2.40	0	63	54.5	51.5	0.0	0.0	50.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.3	4.3
74	705173.75	5159107.67	2.40	0	125	68.6	65.6	0.0	0.0	50.3	0.0	0.6	0.0	0.0	0.0	0.0	-0.0	17.8	14.8
75	705173.75	5159107.67	2.40	0	250	75.1	72.1	0.0	0.0	50.3	0.1	7.3	0.0	0.0	0.0	0.0	-0.0	17.5	14.5
76	705173.75	5159107.67	2.40	0	500	77.5	74.5	0.0	0.0	50.3	0.2	3.8	0.0	0.0	0.0	0.0	-0.0	23.3	20.3
77	705173.75	5159107.67	2.40	0	1000	76.7	73.7	0.0	0.0	50.3	0.3	-0.2	0.0	0.0	0.0	0.0	-0.0	26.3	23.3
78	705173.75	5159107.67	2.40	0	2000	74.9	71.9	0.0	0.0	50.3	0.9	-0.7	0.0	0.0	0.0	0.0	-0.0	24.5	21.5
79	705173.75	5159107.67	2.40	0	4000	67.7	64.7	0.0	0.0	50.3	3.0	-0.7	0.0	0.0	0.0	0.0	-0.0	15.2	12.2
80	705173.75	5159107.67	2.40	0	8000	58.6	55.6	0.0	0.0	50.3	10.7	-0.7	0.0	0.0	0.0	0.0	-0.0	-1.6	-4.6
81	705101.81	5159069.50	2.40	0	63	53.4	50.4	0.0	0.0	50.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.4	3.4
82	705101.81	5159069.50	2.40	0	125	67.5	64.5	0.0	0.0	50.0	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	16.1	13.1

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
83	705101.81	5159069.50	2.40	0	250	74.0	71.0	0.0	0.0	50.0	0.1	9.1	0.0	0.0	0.0	0.0	-0.0	14.8	11.8
84	705101.81	5159069.50	2.40	0	500	76.4	73.4	0.0	0.0	50.0	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	21.7	18.7
85	705101.81	5159069.50	2.40	0	1000	75.6	72.6	0.0	0.0	50.0	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	25.0	22.0
86	705101.81	5159069.50	2.40	0	2000	73.8	70.8	0.0	0.0	50.0	0.9	-0.3	0.0	0.0	0.0	0.0	-0.0	23.2	20.2
87	705101.81	5159069.50	2.40	0	4000	66.6	63.6	0.0	0.0	50.0	2.9	-0.3	0.0	0.0	0.0	0.0	-0.0	14.0	11.0
88	705101.81	5159069.50	2.40	0	8000	57.5	54.5	0.0	0.0	50.0	10.4	-0.3	0.0	0.0	0.0	0.0	-0.0	-2.6	-5.6
89	705198.40	5159140.67	2.40	0	63	55.8	52.8	0.0	0.0	53.1	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	5.9	2.9
90	705198.40	5159140.67	2.40	0	125	69.9	66.9	0.0	0.0	53.1	0.1	-0.5	0.0	0.0	0.0	0.0	-0.0	17.3	14.2
91	705198.40	5159140.67	2.40	0	250	76.4	73.4	0.0	0.0	53.1	0.1	5.3	0.0	0.0	0.0	0.0	-0.0	17.9	14.9
92	705198.40	5159140.67	2.40	0	500	78.8	75.8	0.0	0.0	53.1	0.3	3.2	0.0	0.0	0.0	0.0	-0.0	22.3	19.2
93	705198.40	5159140.67	2.40	0	1000	78.0	75.0	0.0	0.0	53.1	0.5	-0.8	0.0	0.0	0.0	0.0	-0.0	25.3	22.2
94	705198.40	5159140.67	2.40	0	2000	76.2	73.2	0.0	0.0	53.1	1.2	-1.4	0.0	0.0	0.0	0.0	-0.0	23.3	20.3
95	705198.40	5159140.67	2.40	0	4000	69.0	66.0	0.0	0.0	53.1	4.2	-1.4	0.0	0.0	0.0	0.0	-0.0	13.2	10.1
96	705198.40	5159140.67	2.40	0	8000	59.9	56.9	0.0	0.0	53.1	14.9	-1.4	0.0	0.0	0.0	0.0	-0.0	-6.6	-9.7
97	705125.49	5159173.28	2.40	0	63	58.2	55.1	0.0	0.0	55.3	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	6.7	3.7
98	705125.49	5159173.28	2.40	0	125	72.3	69.2	0.0	0.0	55.3	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	18.0	15.0
99	705125.49	5159173.28	2.40	0	250	78.8	75.7	0.0	0.0	55.3	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	18.6	15.6
100	705125.49	5159173.28	2.40	0	500	81.2	78.1	0.0	0.0	55.3	0.3	2.6	0.0	0.0	0.0	0.0	-0.0	22.9	19.9
101	705125.49	5159173.28	2.40	0	1000	80.4	77.3	0.0	0.0	55.3	0.6	-1.5	0.0	0.0	0.0	0.0	-0.0	25.9	22.9
102	705125.49	5159173.28	2.40	0	2000	78.6	75.5	0.0	0.0	55.3	1.6	-2.1	0.0	0.0	0.0	0.0	-0.0	23.8	20.8
103	705125.49	5159173.28	2.40	0	4000	71.4	68.3	0.0	0.0	55.3	5.4	-2.1	0.0	0.0	0.0	0.0	-0.0	12.8	9.8
104	705125.49	5159173.28	2.40	0	8000	62.3	59.2	0.0	0.0	55.3	19.2	-2.1	0.0	0.0	0.0	0.0	-0.0	-10.1	-13.2
105	705157.57	5159100.44	2.40	0	63	52.5	49.4	0.0	0.0	49.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	5.8	2.8
106	705157.57	5159100.44	2.40	0	125	66.6	63.5	0.0	0.0	49.7	0.0	0.7	0.0	0.0	0.0	0.0	-0.0	16.1	13.1
107	705157.57	5159100.44	2.40	0	250	73.1	70.0	0.0	0.0	49.7	0.1	7.6	0.0	0.0	0.0	0.0	-0.0	15.7	12.7
108	705157.57	5159100.44	2.40	0	500	75.5	72.4	0.0	0.0	49.7	0.2	3.9	0.0	0.0	0.0	0.0	-0.0	21.7	18.7
109	705157.57	5159100.44	2.40	0	1000	74.7	71.6	0.0	0.0	49.7	0.3	-0.1	0.0	0.0	0.0	0.0	-0.0	24.7	21.7
110	705157.57	5159100.44	2.40	0	2000	72.9	69.8	0.0	0.0	49.7	0.8	-0.6	0.0	0.0	0.0	0.0	-0.0	23.0	19.9
111	705157.57	5159100.44	2.40	0	4000	65.7	62.6	0.0	0.0	49.7	2.8	-0.6	0.0	0.0	0.0	0.0	-0.0	13.8	10.8
112	705157.57	5159100.44	2.40	0	8000	56.6	53.5	0.0	0.0	49.7	10.0	-0.6	0.0	0.0	0.0	0.0	-0.0	-2.5	-5.6
113	705087.12	5159095.37	2.40	0	63	54.2	51.2	0.0	0.0	52.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.9	1.9
114	705087.12	5159095.37	2.40	0	125	68.3	65.3	0.0	0.0	52.4	0.1	0.6	0.0	0.0	0.0	0.0	-0.0	15.3	12.3
115	705087.12	5159095.37	2.40	0	250	74.8	71.8	0.0	0.0	52.4	0.1	7.6	0.0	0.0	0.0	0.0	-0.0	14.7	11.7
116	705087.12	5159095.37	2.40	0	500	77.2	74.2	0.0	0.0	52.4	0.2	4.1	0.0	0.0	0.0	0.0	-0.0	20.6	17.6
117	705087.12	5159095.37	2.40	0	1000	76.4	73.4	0.0	0.0	52.4	0.4	-0.2	0.0	0.0	0.0	0.0	-0.0	23.9	20.9
118	705087.12	5159095.37	2.40	0	2000	74.6	71.6	0.0	0.0	52.4	1.1	-0.8	0.0	0.0	0.0	0.0	-0.0	22.0	18.9
119	705087.12	5159095.37	2.40	0	4000	67.4	64.4	0.0	0.0	52.4	3.8	-0.8	0.0	0.0	0.0	0.0	-0.0	12.1	9.1
120	705087.12	5159095.37	2.40	0	8000	58.3	55.3	0.0	0.0	52.4	13.7	-0.8	0.0	0.0	0.0	0.0	-0.0	-6.9	-9.9
121	705073.40	5159126.55	2.40	0	63	52.0	49.0	0.0	0.0	54.5	0.0	-3.6	0.0	0.0	0.0	0.0	-0.0	1.2	-1.8
122	705073.40	5159126.55	2.40	0	125	66.1	63.1	0.0	0.0	54.5	0.1	-0.7	0.0	0.0	0.0	0.0	-0.0	12.3	9.3
123	705073.40	5159126.55	2.40	0	250	72.6	69.6	0.0	0.0	54.5	0.2	5.1	0.0	0.0	0.0	0.0	-0.0	13.0	10.0
124	705073.40	5159126.55	2.40	0	500	75.0	72.0	0.0	0.0	54.5	0.3	3.1	0.0	0.0	0.0	0.0	-0.0	17.2	14.2
125	705073.40	5159126.55	2.40	0	1000	74.2	71.2	0.0	0.0	54.5	0.5	-1.0	0.0	0.0	0.0	0.0	-0.0	20.2	17.2
126	705073.40	5159126.55	2.40	0	2000	72.4	69.4	0.0	0.0	54.5	1.4	-1.6	0.0	0.0	0.0	0.0	-0.0	18.2	15.1
127	705073.40	5159126.55	2.40	0	4000	65.2	62.2	0.0	0.0	54.5	4.9	-1.6	0.0	0.0	0.0	0.0	-0.0	7.5	4.5
128	705073.40	5159126.55	2.40	0	8000	56.1	53.1	0.0	0.0	54.5	17.4	-1.6	0.0	0.0	0.0	0.0	-0.0	-14.1	-17.1
129	705072.41	5159143.86	2.40	0	63	54.6	51.6	0.0	0.0	55.2	0.0	-3.8	0.0	0.0	3.7	0.0	-0.0	-0.5	-3.5
130	705072.41	5159143.86	2.40	0	125	68.7	65.7	0.0	0.0	55.2	0.1	-0.9	0.0	0.0	5.4	0.0	-0.0	8.9	5.9
131	705072.41	5159143.86	2.40	0	250	75.2	72.2	0.0	0.0	55.2	0.2	4.9	0.0	0.0	5.0	0.0	-0.0	9.9	6.9
132	705072.41	5159143.86	2.40	0	500	77.6	74.6	0.0	0.0	55.2	0.3	2.9	0.0	0.0	9.4	0.0	-0.0	9.7	6.7
133	705072.41	5159143.86	2.40	0	1000	76.8	73.8	0.0	0.0	55.2	0.6	-1.2	0.0	0.0	13.7	0.0	-0.0	8.5	5.5
134	705072.41	5159143.86	2.40	0	2000	75.0	72.0	0.0	0.0	55.2	1.6	-1.9	0.0	0.0	16.7	0.0	-0.0	3.4	0.4
135	705072.41	5159143.86	2.40	0	4000	67.8	64.8	0.0	0.0	55.2	5.3	-1.9	0.0	0.0	19.6	0.0	-0.0	-10.5	-13.5
136	705072.41	5159143.86	2.40	0	8000	58.7	55.7	0.0	0.0	55.2	19.0	-1.9	0.0	0.0	21.7	0.0	-0.0	-35.4	-38.4
137	705097.90	5159083.26	2.40	0	63	52.0	49.0	0.0	0.0	51.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	3.9	0.9
138	705097.90	5159083.26	2.40	0	125	66.1	63.1	0.0	0.0	51.1	0.0	1.2	0.0	0.0	0.0	0.0	-0.0	13.8	10.8
139	705097.90	5159083.26	2.40	0	250	72.6	69.6	0.0	0.0	51.1	0.1	8.8	0.0	0.0	0.0	0.0	-0.0	12.6	9.6
140	705097.90	5159083.26	2.40	0	500	75.0	72.0	0.0	0.0	51.1	0.2	4.5	0.0	0.0	0.0	0.0	-0.0	19.2	16.2
141	705097.90	5159083.26	2.40	0	1000	74.2	71.2	0.0	0.0	51.1	0.4	0.1	0.0	0.0	0.0	0.0	-0.0	22.6	19.6
142	705097.90	5159083.26	2.40	0	2000	72.4	69.4	0.0	0.0	51.1	1.0	-0.4	0.0	0.0	0.0	0.0	-0.0	20.8	17.8
143	705097.90	5159083.26	2.40	0	4000	65.2	62.2	0.0	0.0	51.1	3.3	-0.4	0.0	0.0	0.0	0.0	-0.0	11.2	8.2
144	705097.90	5159083.26	2.40	0	8000	56.1	53.1	0.0	0.0	51.1	11.8	-0.4	0.0	0.0	0.0	0.0	-0.0	-6.3	-9.4
145	705166.74	5159174.60	2.40	0	63	56.1	53.1	0.0	0.0	55.0	0.0	-3.8	0.0	0.0	0.0	0.0	-0.0	4.9	1.9

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
146	705166.74	5159174.60	2.40	0	125	70.2	67.2	0.0	0.0	55.0	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	16.3	13.3
147	705166.74	5159174.60	2.40	0	250	76.7	73.7	0.0	0.0	55.0	0.2	4.5	0.0	0.0	0.0	0.0	-0.0	17.0	14.0
148	705166.74	5159174.60	2.40	0	500	79.1	76.1	0.0	0.0	55.0	0.3	2.6	0.0	0.0	0.0	0.0	-0.0	21.2	18.2
149	705166.74	5159174.60	2.40	0	1000	78.3	75.3	0.0	0.0	55.0	0.6	-1.4	0.0	0.0	0.0	0.0	-0.0	24.2	21.2
150	705166.74	5159174.60	2.40	0	2000	76.5	73.5	0.0	0.0	55.0	1.5	-2.1	0.0	0.0	0.0	0.0	-0.0	22.1	19.1
151	705166.74	5159174.60	2.40	0	4000	69.3	66.3	0.0	0.0	55.0	5.2	-2.1	0.0	0.0	0.0	0.0	-0.0	11.2	8.2
152	705166.74	5159174.60	2.40	0	8000	60.2	57.2	0.0	0.0	55.0	18.6	-2.1	0.0	0.0	0.0	0.0	-0.0	-11.3	-14.3
153	705076.60	5159111.30	2.40	0	63	53.9	50.9	0.0	0.0	53.6	0.0	-3.4	0.0	0.0	0.0	0.0	-0.0	3.6	0.6
154	705076.60	5159111.30	2.40	0	125	68.0	65.0	0.0	0.0	53.6	0.1	-0.1	0.0	0.0	0.0	0.0	-0.0	14.4	11.4
155	705076.60	5159111.30	2.40	0	250	74.5	71.5	0.0	0.0	53.6	0.1	6.3	0.0	0.0	0.0	0.0	-0.0	14.5	11.4
156	705076.60	5159111.30	2.40	0	500	76.9	73.9	0.0	0.0	53.6	0.3	3.6	0.0	0.0	0.0	0.0	-0.0	19.4	16.4
157	705076.60	5159111.30	2.40	0	1000	76.1	73.1	0.0	0.0	53.6	0.5	-0.6	0.0	0.0	0.0	0.0	-0.0	22.6	19.5
158	705076.60	5159111.30	2.40	0	2000	74.3	71.3	0.0	0.0	53.6	1.3	-1.2	0.0	0.0	0.0	0.0	-0.0	20.6	17.6
159	705076.60	5159111.30	2.40	0	4000	67.1	64.1	0.0	0.0	53.6	4.5	-1.2	0.0	0.0	0.0	0.0	-0.0	10.2	7.2
160	705076.60	5159111.30	2.40	0	8000	58.0	55.0	0.0	0.0	53.6	15.9	-1.2	0.0	0.0	0.0	0.0	-0.0	-10.3	-13.3
161	705188.40	5159114.51	2.40	0	63	51.4	48.4	0.0	0.0	51.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	3.4	0.4
162	705188.40	5159114.51	2.40	0	125	65.5	62.5	0.0	0.0	51.0	0.0	0.4	0.0	0.0	0.0	0.0	-0.0	14.1	11.1
163	705188.40	5159114.51	2.40	0	250	72.0	69.0	0.0	0.0	51.0	0.1	7.0	0.0	0.0	0.0	0.0	-0.0	13.9	10.9
164	705188.40	5159114.51	2.40	0	500	74.4	71.4	0.0	0.0	51.0	0.2	3.7	0.0	0.0	0.0	0.0	-0.0	19.5	16.5
165	705188.40	5159114.51	2.40	0	1000	73.6	70.6	0.0	0.0	51.0	0.4	-0.3	0.0	0.0	0.0	0.0	-0.0	22.5	19.5
166	705188.40	5159114.51	2.40	0	2000	71.8	68.8	0.0	0.0	51.0	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	20.7	17.7
167	705188.40	5159114.51	2.40	0	4000	64.6	61.6	0.0	0.0	51.0	3.3	-0.9	0.0	0.0	0.0	0.0	-0.0	11.2	8.2
168	705188.40	5159114.51	2.40	0	8000	55.5	52.5	0.0	0.0	51.0	11.7	-0.9	0.0	0.0	0.0	0.0	-0.0	-6.3	-9.3
169	705196.13	5159166.65	2.40	0	63	54.7	51.7	0.0	0.0	54.7	0.0	-3.7	0.0	0.0	0.0	0.0	-0.0	3.7	0.7
170	705196.13	5159166.65	2.40	0	125	68.8	65.8	0.0	0.0	54.7	0.1	-1.0	0.0	0.0	0.0	0.0	-0.0	15.1	12.1
171	705196.13	5159166.65	2.40	0	250	75.3	72.3	0.0	0.0	54.7	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	15.8	12.8
172	705196.13	5159166.65	2.40	0	500	77.7	74.7	0.0	0.0	54.7	0.3	2.7	0.0	0.0	0.0	0.0	-0.0	20.0	17.0
173	705196.13	5159166.65	2.40	0	1000	76.9	73.9	0.0	0.0	54.7	0.6	-1.3	0.0	0.0	0.0	0.0	-0.0	23.0	20.0
174	705196.13	5159166.65	2.40	0	2000	75.1	72.1	0.0	0.0	54.7	1.5	-1.9	0.0	0.0	0.0	0.0	-0.0	20.9	17.9
175	705196.13	5159166.65	2.40	0	4000	67.9	64.9	0.0	0.0	54.7	5.0	-1.9	0.0	0.0	0.0	0.0	-0.0	10.2	7.1
176	705196.13	5159166.65	2.40	0	8000	58.8	55.8	0.0	0.0	54.7	17.8	-1.9	0.0	0.0	0.0	0.0	-0.0	-11.8	-14.8
177	705196.13	5159121.71	2.40	0	63	51.5	48.4	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.8	-0.3
178	705196.13	5159121.71	2.40	0	125	65.6	62.5	0.0	0.0	51.7	0.0	0.1	0.0	0.0	0.0	0.0	-0.0	13.7	10.7
179	705196.13	5159121.71	2.40	0	250	72.1	69.0	0.0	0.0	51.7	0.1	6.6	0.0	0.0	0.0	0.0	-0.0	13.7	10.6
180	705196.13	5159121.71	2.40	0	500	74.5	71.4	0.0	0.0	51.7	0.2	3.6	0.0	0.0	0.0	0.0	-0.0	18.9	15.9
181	705196.13	5159121.71	2.40	0	1000	73.7	70.6	0.0	0.0	51.7	0.4	-0.4	0.0	0.0	0.0	0.0	-0.0	22.0	19.0
182	705196.13	5159121.71	2.40	0	2000	71.9	68.8	0.0	0.0	51.7	1.1	-1.0	0.0	0.0	0.0	0.0	-0.0	20.2	17.1
183	705196.13	5159121.71	2.40	0	4000	64.7	61.6	0.0	0.0	51.7	3.5	-1.0	0.0	0.0	0.0	0.0	-0.0	10.5	7.4
184	705196.13	5159121.71	2.40	0	8000	55.6	52.5	0.0	0.0	51.7	12.7	-1.0	0.0	0.0	0.0	0.0	-0.0	-7.8	-10.8
185	705195.21	5159167.69	2.40	0	63	54.2	51.2	0.0	0.0	54.7	0.0	-3.7	0.0	0.0	0.0	0.0	-0.0	3.2	0.2
186	705195.21	5159167.69	2.40	0	125	68.3	65.3	0.0	0.0	54.7	0.1	-1.0	0.0	0.0	0.0	0.0	-0.0	14.6	11.6
187	705195.21	5159167.69	2.40	0	250	74.8	71.8	0.0	0.0	54.7	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	15.3	12.3
188	705195.21	5159167.69	2.40	0	500	77.2	74.2	0.0	0.0	54.7	0.3	2.7	0.0	0.0	0.0	0.0	-0.0	19.5	16.5
189	705195.21	5159167.69	2.40	0	1000	76.4	73.4	0.0	0.0	54.7	0.6	-1.3	0.0	0.0	0.0	0.0	-0.0	22.5	19.5
190	705195.21	5159167.69	2.40	0	2000	74.6	71.6	0.0	0.0	54.7	1.5	-2.0	0.0	0.0	0.0	0.0	-0.0	20.4	17.4
191	705195.21	5159167.69	2.40	0	4000	67.4	64.4	0.0	0.0	54.7	5.0	-2.0	0.0	0.0	0.0	0.0	-0.0	9.7	6.6
192	705195.21	5159167.69	2.40	0	8000	58.3	55.3	0.0	0.0	54.7	17.9	-2.0	0.0	0.0	0.0	0.0	-0.0	-12.4	-15.4
193	705110.15	5159073.75	2.40	0	63	48.8	45.8	0.0	0.0	49.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.2	-0.8
194	705110.15	5159073.75	2.40	0	125	62.9	59.9	0.0	0.0	49.6	0.0	1.6	0.0	0.0	0.0	0.0	-0.0	11.6	8.6
195	705110.15	5159073.75	2.40	0	250	69.4	66.4	0.0	0.0	49.6	0.1	9.5	0.0	0.0	0.0	0.0	-0.0	10.2	7.2
196	705110.15	5159073.75	2.40	0	500	71.8	68.8	0.0	0.0	49.6	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	17.3	14.3
197	705110.15	5159073.75	2.40	0	1000	71.0	68.0	0.0	0.0	49.6	0.3	0.5	0.0	0.0	0.0	0.0	-0.0	20.6	17.6
198	705110.15	5159073.75	2.40	0	2000	69.2	66.2	0.0	0.0	49.6	0.8	-0.1	0.0	0.0	0.0	0.0	-0.0	18.9	15.9
199	705110.15	5159073.75	2.40	0	4000	62.0	59.0	0.0	0.0	49.6	2.8	-0.1	0.0	0.0	0.0	0.0	-0.0	9.7	6.7
200	705110.15	5159073.75	2.40	0	8000	52.9	49.9	0.0	0.0	49.6	10.0	-0.1	0.0	0.0	0.0	0.0	-0.0	-6.6	-9.6
201	705113.64	5159078.33	2.40	0	63	48.8	45.8	0.0	0.0	49.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.1	-0.9
202	705113.64	5159078.33	2.40	0	125	62.9	59.9	0.0	0.0	49.7	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	11.8	8.8
203	705113.64	5159078.33	2.40	0	250	69.4	66.4	0.0	0.0	49.7	0.1	9.0	0.0	0.0	0.0	0.0	-0.0	10.7	7.6
204	705113.64	5159078.33	2.40	0	500	71.8	68.8	0.0	0.0	49.7	0.2	4.4	0.0	0.0	0.0	0.0	-0.0	17.5	14.5
205	705113.64	5159078.33	2.40	0	1000	71.0	68.0	0.0	0.0	49.7	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	20.7	17.7
206	705113.64	5159078.33	2.40	0	2000	69.2	66.2	0.0	0.0	49.7	0.8	-0.3	0.0	0.0	0.0	0.0	-0.0	18.9	15.9
207	705113.64	5159078.33	2.40	0	4000	62.0	59.0	0.0	0.0	49.7	2.8	-0.3	0.0	0.0	0.0	0.0	-0.0	9.7	6.7
208	705113.64	5159078.33	2.40	0	8000	52.9	49.9	0.0	0.0	49.7	10.1	-0.3	0.0	0.0	0.0	0.0	-0.0	-6.6	-9.6

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
209	705194.62	5159164.10	2.40	0	63	52.4	49.4	0.0	0.0	54.5	0.0	-3.7	0.0	0.0	0.0	0.0	-0.0	1.5	-1.5
210	705194.62	5159164.10	2.40	0	125	66.5	63.5	0.0	0.0	54.5	0.1	-1.0	0.0	0.0	0.0	0.0	-0.0	12.9	9.9
211	705194.62	5159164.10	2.40	0	250	73.0	70.0	0.0	0.0	54.5	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	13.7	10.6
212	705194.62	5159164.10	2.40	0	500	75.4	72.4	0.0	0.0	54.5	0.3	2.8	0.0	0.0	0.0	0.0	-0.0	17.8	14.8
213	705194.62	5159164.10	2.40	0	1000	74.6	71.6	0.0	0.0	54.5	0.6	-1.3	0.0	0.0	0.0	0.0	-0.0	20.8	17.8
214	705194.62	5159164.10	2.40	0	2000	72.8	69.8	0.0	0.0	54.5	1.5	-1.9	0.0	0.0	0.0	0.0	-0.0	18.8	15.7
215	705194.62	5159164.10	2.40	0	4000	65.6	62.6	0.0	0.0	54.5	4.9	-1.9	0.0	0.0	0.0	0.0	-0.0	8.1	5.1
216	705194.62	5159164.10	2.40	0	8000	56.5	53.5	0.0	0.0	54.5	17.5	-1.9	0.0	0.0	0.0	0.0	-0.0	-13.6	-16.6
217	705086.21	5159171.42	2.40	0	63	47.7	44.6	0.0	0.0	56.0	0.0	-4.0	0.0	0.0	2.6	0.0	-0.0	-7.0	-10.0
218	705086.21	5159171.42	2.40	0	125	61.8	58.7	0.0	0.0	56.0	0.1	-1.2	0.0	0.0	3.5	0.0	-0.0	3.4	0.4
219	705086.21	5159171.42	2.40	0	250	68.3	65.2	0.0	0.0	56.0	0.2	4.6	0.0	0.0	2.8	0.0	-0.0	4.7	1.7
220	705086.21	5159171.42	2.40	0	500	70.7	67.6	0.0	0.0	56.0	0.3	2.6	0.0	0.0	5.8	0.0	-0.0	5.9	2.9
221	705086.21	5159171.42	2.40	0	1000	69.9	66.8	0.0	0.0	56.0	0.7	-1.6	0.0	0.0	8.5	0.0	-0.0	6.3	3.3
222	705086.21	5159171.42	2.40	0	2000	68.1	65.0	0.0	0.0	56.0	1.7	-2.2	0.0	0.0	10.8	0.0	-0.0	1.8	-1.2
223	705086.21	5159171.42	2.40	0	4000	60.9	57.8	0.0	0.0	56.0	5.8	-2.2	0.0	0.0	13.3	0.0	-0.0	-12.1	-15.1
224	705086.21	5159171.42	2.40	0	8000	51.8	48.7	0.0	0.0	56.0	20.8	-2.2	0.0	0.0	15.8	0.0	-0.0	-38.7	-41.7
225	705094.32	5159171.99	2.40	0	63	51.8	48.8	0.0	0.0	55.8	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-0.1	-3.1
226	705094.32	5159171.99	2.40	0	125	65.9	62.9	0.0	0.0	55.8	0.1	-1.2	0.0	0.0	0.0	0.0	-0.0	11.1	8.1
227	705094.32	5159171.99	2.40	0	250	72.4	69.4	0.0	0.0	55.8	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	11.8	8.8
228	705094.32	5159171.99	2.40	0	500	74.8	71.8	0.0	0.0	55.8	0.3	2.6	0.0	0.0	0.0	0.0	-0.0	16.0	13.0
229	705094.32	5159171.99	2.40	0	1000	74.0	71.0	0.0	0.0	55.8	0.6	-1.6	0.0	0.0	0.0	0.0	-0.0	19.1	16.1
230	705094.32	5159171.99	2.40	0	2000	72.2	69.2	0.0	0.0	55.8	1.7	-2.2	0.0	0.0	0.0	0.0	-0.0	16.9	13.9
231	705094.32	5159171.99	2.40	0	4000	65.0	62.0	0.0	0.0	55.8	5.7	-2.2	0.0	0.0	0.0	0.0	-0.0	5.6	2.6
232	705094.32	5159171.99	2.40	0	8000	55.9	52.9	0.0	0.0	55.8	20.4	-2.2	0.0	0.0	0.0	0.0	-0.0	-18.2	-21.2
233	705186.75	5159174.56	2.40	0	63	50.2	47.2	0.0	0.0	55.0	0.0	-3.8	0.0	0.0	0.0	0.0	-0.0	-1.0	-4.0
234	705186.75	5159174.56	2.40	0	125	64.3	61.3	0.0	0.0	55.0	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	10.3	7.3
235	705186.75	5159174.56	2.40	0	250	70.8	67.8	0.0	0.0	55.0	0.2	4.5	0.0	0.0	0.0	0.0	-0.0	11.1	8.1
236	705186.75	5159174.56	2.40	0	500	73.2	70.2	0.0	0.0	55.0	0.3	2.6	0.0	0.0	0.0	0.0	-0.0	15.3	12.3
237	705186.75	5159174.56	2.40	0	1000	72.4	69.4	0.0	0.0	55.0	0.6	-1.4	0.0	0.0	0.0	0.0	-0.0	18.3	15.2
238	705186.75	5159174.56	2.40	0	2000	70.6	67.6	0.0	0.0	55.0	1.5	-2.1	0.0	0.0	0.0	0.0	-0.0	16.1	13.1
239	705186.75	5159174.56	2.40	0	4000	63.4	60.4	0.0	0.0	55.0	5.2	-2.1	0.0	0.0	0.0	0.0	-0.0	5.2	2.2
240	705186.75	5159174.56	2.40	0	8000	54.3	51.3	0.0	0.0	55.0	18.6	-2.1	0.0	0.0	0.0	0.0	-0.0	-17.3	-20.3
241	705080.28	5159169.21	2.40	0	63	50.4	47.3	0.0	0.0	56.1	0.0	-4.0	0.0	0.0	4.3	0.0	-0.0	-6.0	-9.0
242	705080.28	5159169.21	2.40	0	125	64.5	61.4	0.0	0.0	56.1	0.1	-1.2	0.0	0.0	6.6	0.0	-0.0	2.9	-0.1
243	705080.28	5159169.21	2.40	0	250	71.0	67.9	0.0	0.0	56.1	0.2	4.5	0.0	0.0	6.6	0.0	-0.0	3.5	0.5
244	705080.28	5159169.21	2.40	0	500	73.4	70.3	0.0	0.0	56.1	0.4	2.6	0.0	0.0	11.1	0.0	-0.0	3.3	0.3
245	705080.28	5159169.21	2.40	0	1000	72.6	69.5	0.0	0.0	56.1	0.7	-1.6	0.0	0.0	15.5	0.0	-0.0	2.0	-1.1
246	705080.28	5159169.21	2.40	0	2000	70.8	67.7	0.0	0.0	56.1	1.7	-2.2	0.0	0.0	18.4	0.0	-0.0	-3.2	-6.3
247	705080.28	5159169.21	2.40	0	4000	63.6	60.5	0.0	0.0	56.1	5.9	-2.2	0.0	0.0	21.4	0.0	-0.0	-17.6	-20.6
248	705080.28	5159169.21	2.40	0	8000	54.5	51.4	0.0	0.0	56.1	20.9	-2.2	0.0	0.0	22.9	0.0	-0.0	-43.3	-46.3
249	705072.44	5159158.62	2.40	0	63	49.8	46.8	0.0	0.0	55.8	0.0	-4.0	0.0	0.0	4.9	0.0	-0.0	-7.0	-10.0
250	705072.44	5159158.62	2.40	0	125	63.9	60.9	0.0	0.0	55.8	0.1	-1.1	0.0	0.0	7.3	0.0	-0.0	1.8	-1.3
251	705072.44	5159158.62	2.40	0	250	70.4	67.4	0.0	0.0	55.8	0.2	4.6	0.0	0.0	6.8	0.0	-0.0	3.0	-0.0
252	705072.44	5159158.62	2.40	0	500	72.8	69.8	0.0	0.0	55.8	0.3	2.6	0.0	0.0	11.3	0.0	-0.0	2.7	-0.3
253	705072.44	5159158.62	2.40	0	1000	72.0	69.0	0.0	0.0	55.8	0.6	-1.5	0.0	0.0	16.1	0.0	-0.0	0.9	-2.1
254	705072.44	5159158.62	2.40	0	2000	70.2	67.2	0.0	0.0	55.8	1.7	-2.1	0.0	0.0	19.0	0.0	-0.0	-4.2	-7.2
255	705072.44	5159158.62	2.40	0	4000	63.0	60.0	0.0	0.0	55.8	5.7	-2.1	0.0	0.0	22.0	0.0	-0.0	-18.4	-21.4
256	705072.44	5159158.62	2.40	0	8000	53.9	50.9	0.0	0.0	55.8	20.4	-2.1	0.0	0.0	23.6	0.0	-0.0	-43.9	-46.9
257	705074.86	5159164.71	2.40	0	63	48.9	45.9	0.0	0.0	56.0	0.0	-4.0	0.0	0.0	5.3	0.0	-0.0	-8.4	-11.4
258	705074.86	5159164.71	2.40	0	125	63.0	60.0	0.0	0.0	56.0	0.1	-1.1	0.0	0.0	7.8	0.0	-0.0	0.2	-2.8
259	705074.86	5159164.71	2.40	0	250	69.5	66.5	0.0	0.0	56.0	0.2	4.7	0.0	0.0	7.5	0.0	-0.0	1.2	-1.8
260	705074.86	5159164.71	2.40	0	500	71.9	68.9	0.0	0.0	56.0	0.3	2.7	0.0	0.0	12.0	0.0	-0.0	0.9	-2.1
261	705074.86	5159164.71	2.40	0	1000	71.1	68.1	0.0	0.0	56.0	0.7	-1.5	0.0	0.0	16.7	0.0	-0.0	-0.8	-3.8
262	705074.86	5159164.71	2.40	0	2000	69.3	66.3	0.0	0.0	56.0	1.7	-2.2	0.0	0.0	19.7	0.0	-0.0	-6.0	-9.0
263	705074.86	5159164.71	2.40	0	4000	62.1	59.1	0.0	0.0	56.0	5.8	-2.2	0.0	0.0	22.7	0.0	-0.0	-20.3	-23.3
264	705074.86	5159164.71	2.40	0	8000	53.0	50.0	0.0	0.0	56.0	20.8	-2.2	0.0	0.0	23.8	0.0	-0.0	-45.4	-48.4
265	705192.25	5159172.42	2.40	0	63	47.5	44.5	0.0	0.0	54.9	0.0	-3.8	0.0	0.0	0.0	0.0	-0.0	-3.7	-6.7
266	705192.25	5159172.42	2.40	0	125	61.6	58.6	0.0	0.0	54.9	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	7.7	4.7
267	705192.25	5159172.42	2.40	0	250	68.1	65.1	0.0	0.0	54.9	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	8.4	5.4
268	705192.25	5159172.42	2.40	0	500	70.5	67.5	0.0	0.0	54.9	0.3	2.7	0.0	0.0	0.0	0.0	-0.0	12.6	9.6
269	705192.25	5159172.42	2.40	0	1000	69.7	66.7	0.0	0.0	54.9	0.6	-1.4	0.0	0.0	0.0	0.0	-0.0	15.6	12.6
270	705192.25	5159172.42	2.40	0	2000	67.9	64.9	0.0	0.0	54.9	1.5	-2.0	0.0	0.0	0.0	0.0	-0.0	13.5	10.5
271	705192.25	5159172.42	2.40	0	4000	60.7	57.7	0.0	0.0	54.9	5.2	-2.0	0.0	0.0	0.0	0.0	-0.0	2.6	-0.4

Line Source, ISO 9613, Name: "8", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
272	705192.25	5159172.42	2.40	0	8000	51.6	48.6	0.0	0.0	54.9	18.4	-2.0	0.0	0.0	0.0	0.0	-0.0	-19.7	-22.7
273	705118.79	5159173.04	2.40	1	1000	77.4	74.4	0.0	0.0	56.2	0.7	-1.6	0.0	0.0	0.0	0.0	1.0	21.1	18.1
274	705118.79	5159173.04	2.40	1	2000	75.6	72.6	0.0	0.0	56.2	1.8	-2.2	0.0	0.0	0.0	0.0	1.0	18.9	15.9
275	705118.79	5159173.04	2.40	1	4000	68.4	65.4	0.0	0.0	56.2	6.0	-2.2	0.0	0.0	0.0	0.0	1.0	7.5	4.4
276	705118.79	5159173.04	2.40	1	8000	59.3	56.3	0.0	0.0	56.2	21.4	-2.2	0.0	0.0	0.0	0.0	1.0	-17.0	-20.0
277	705083.69	5159098.44	2.40	1	500	74.7	71.7	0.0	0.0	54.5	0.3	3.1	0.0	0.0	0.0	0.0	1.0	15.8	12.8
278	705083.69	5159098.44	2.40	1	1000	73.9	70.9	0.0	0.0	54.5	0.6	-1.0	0.0	0.0	0.0	0.0	1.0	18.9	15.9
279	705083.69	5159098.44	2.40	1	2000	72.1	69.1	0.0	0.0	54.5	1.4	-1.6	0.0	0.0	0.0	0.0	1.0	16.8	13.8
280	705083.69	5159098.44	2.40	1	4000	64.9	61.9	0.0	0.0	54.5	4.9	-1.6	0.0	0.0	0.0	0.0	1.0	6.1	3.1
281	705083.69	5159098.44	2.40	1	8000	55.8	52.8	0.0	0.0	54.5	17.4	-1.6	0.0	0.0	0.0	0.0	1.0	-15.5	-18.5
282	705079.17	5159103.11	2.40	1	250	64.4	61.4	0.0	0.0	54.4	0.2	5.0	0.0	0.0	0.0	0.0	1.0	3.9	0.9
283	705079.17	5159103.11	2.40	1	500	66.8	63.8	0.0	0.0	54.4	0.3	3.0	0.0	0.0	0.0	0.0	1.0	8.1	5.1
284	705079.17	5159103.11	2.40	1	1000	66.0	63.0	0.0	0.0	54.4	0.5	-1.0	0.0	0.0	0.0	0.0	1.0	11.1	8.1
285	705079.17	5159103.11	2.40	1	2000	64.2	61.2	0.0	0.0	54.4	1.4	-1.6	0.0	0.0	0.0	0.0	1.0	9.0	6.0
286	705079.17	5159103.11	2.40	1	4000	57.0	54.0	0.0	0.0	54.4	4.8	-1.6	0.0	0.0	0.0	0.0	1.0	-1.6	-4.6
287	705079.17	5159103.11	2.40	1	8000	47.9	44.9	0.0	0.0	54.4	17.2	-1.6	0.0	0.0	0.0	0.0	1.0	-23.1	-26.1

Line Source, ISO 9613, Name: "9a", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705112.18	5158981.61	2.40	0	63	52.4	-47.6	0.0	0.0	47.9	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.5	-92.5
2	705112.18	5158981.61	2.40	0	125	66.5	-33.5	0.0	0.0	47.9	0.0	1.5	0.0	0.0	0.0	0.0	-0.0	17.1	-82.9
3	705112.18	5158981.61	2.40	0	250	73.0	-27.0	0.0	0.0	47.9	0.1	8.8	0.0	0.0	0.0	0.0	-0.0	16.3	-83.8
4	705112.18	5158981.61	2.40	0	500	75.4	-24.6	0.0	0.0	47.9	0.1	4.3	0.0	0.0	0.0	0.0	-0.0	23.0	-77.0
5	705112.18	5158981.61	2.40	0	1000	74.6	-25.4	0.0	0.0	47.9	0.3	0.4	0.0	0.0	0.0	0.0	-0.0	26.0	-74.0
6	705112.18	5158981.61	2.40	0	2000	72.8	-27.2	0.0	0.0	47.9	0.7	-0.1	0.0	0.0	0.0	0.0	-0.0	24.3	-75.7
7	705112.18	5158981.61	2.40	0	4000	65.6	-34.4	0.0	0.0	47.9	2.3	-0.1	0.0	0.0	0.0	0.0	-0.0	15.5	-84.5
8	705112.18	5158981.61	2.40	0	8000	56.5	-43.5	0.0	0.0	47.9	8.2	-0.1	0.0	0.0	0.0	0.0	-0.0	0.5	-99.5
9	705110.38	5159008.55	2.40	0	63	52.4	-47.6	0.0	0.0	47.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	8.4	-91.6
10	705110.38	5159008.55	2.40	0	125	66.5	-33.5	0.0	0.0	47.0	0.0	1.3	0.0	0.0	0.0	0.0	-0.0	18.2	-81.8
11	705110.38	5159008.55	2.40	0	250	73.0	-27.0	0.0	0.0	47.0	0.1	8.2	0.0	0.0	0.0	0.0	-0.0	17.7	-82.3
12	705110.38	5159008.55	2.40	0	500	75.4	-24.6	0.0	0.0	47.0	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	24.2	-75.8
13	705110.38	5159008.55	2.40	0	1000	74.6	-25.4	0.0	0.0	47.0	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	27.0	-73.0
14	705110.38	5159008.55	2.40	0	2000	72.8	-27.2	0.0	0.0	47.0	0.6	-0.1	0.0	0.0	0.0	0.0	-0.0	25.3	-74.7
15	705110.38	5159008.55	2.40	0	4000	65.6	-34.4	0.0	0.0	47.0	2.1	-0.1	0.0	0.0	0.0	0.0	-0.0	16.7	-83.3
16	705110.38	5159008.55	2.40	0	8000	56.5	-43.5	0.0	0.0	47.0	7.4	-0.1	0.0	0.0	0.0	0.0	-0.0	2.3	-97.7
17	705108.58	5159035.49	2.40	0	63	52.4	-47.6	0.0	0.0	47.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.8	-92.2
18	705108.58	5159035.49	2.40	0	125	66.5	-33.5	0.0	0.0	47.6	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	17.5	-82.5
19	705108.58	5159035.49	2.40	0	250	73.0	-27.0	0.0	0.0	47.6	0.1	8.5	0.0	0.0	0.0	0.0	-0.0	16.9	-83.1
20	705108.58	5159035.49	2.40	0	500	75.4	-24.6	0.0	0.0	47.6	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	23.5	-76.5
21	705108.58	5159035.49	2.40	0	1000	74.6	-25.4	0.0	0.0	47.6	0.3	0.4	0.0	0.0	0.0	0.0	-0.0	26.4	-73.6
22	705108.58	5159035.49	2.40	0	2000	72.8	-27.2	0.0	0.0	47.6	0.7	-0.1	0.0	0.0	0.0	0.0	-0.0	24.7	-75.3
23	705108.58	5159035.49	2.40	0	4000	65.6	-34.4	0.0	0.0	47.6	2.2	-0.1	0.0	0.0	0.0	0.0	-0.0	16.0	-84.0
24	705108.58	5159035.49	2.40	0	8000	56.5	-43.5	0.0	0.0	47.6	7.9	-0.1	0.0	0.0	0.0	0.0	-0.0	1.2	-98.8
25	705106.78	5159062.42	2.40	0	63	52.4	-47.6	0.0	0.0	49.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	6.2	-93.8
26	705106.78	5159062.42	2.40	0	125	66.5	-33.5	0.0	0.0	49.2	0.0	1.5	0.0	0.0	0.0	0.0	-0.0	15.8	-84.2
27	705106.78	5159062.42	2.40	0	250	73.0	-27.0	0.0	0.0	49.2	0.1	9.2	0.0	0.0	0.0	0.0	-0.0	14.6	-85.4
28	705106.78	5159062.42	2.40	0	500	75.4	-24.6	0.0	0.0	49.2	0.2	4.5	0.0	0.0	0.0	0.0	-0.0	21.5	-78.5
29	705106.78	5159062.42	2.40	0	1000	74.6	-25.4	0.0	0.0	49.2	0.3	0.4	0.0	0.0	0.0	0.0	-0.0	24.8	-75.3
30	705106.78	5159062.42	2.40	0	2000	72.8	-27.2	0.0	0.0	49.2	0.8	-0.2	0.0	0.0	0.0	0.0	-0.0	23.0	-77.0
31	705106.78	5159062.42	2.40	0	4000	65.6	-34.4	0.0	0.0	49.2	2.6	-0.2	0.0	0.0	0.0	0.0	-0.0	13.9	-86.1
32	705106.78	5159062.42	2.40	0	8000	56.5	-43.5	0.0	0.0	49.2	9.5	-0.2	0.0	0.0	0.0	0.0	-0.0	-2.0	-102.0
33	705107.85	5159087.88	2.40	0	63	52.0	-48.0	0.0	0.0	50.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.2	-95.8
34	705107.85	5159087.88	2.40	0	125	66.1	-33.9	0.0	0.0	50.8	0.0	1.0	0.0	0.0	0.0	0.0	-0.0	14.2	-85.8
35	705107.85	5159087.88	2.40	0	250	72.6	-27.4	0.0	0.0	50.8	0.1	8.4	0.0	0.0	0.0	0.0	-0.0	13.3	-86.7
36	705107.85	5159087.88	2.40	0	500	75.0	-25.0	0.0	0.0	50.8	0.2	4.3	0.0	0.0	0.0	0.0	-0.0	19.7	-80.3
37	705107.85	5159087.88	2.40	0	1000	74.2	-25.8	0.0	0.0	50.8	0.4	0.1	0.0	0.0	0.0	0.0	-0.0	23.0	-77.0
38	705107.85	5159087.88	2.40	0	2000	72.4	-27.6	0.0	0.0	50.8	0.9	-0.5	0.0	0.0	0.0	0.0	-0.0	21.2	-78.8
39	705107.85	5159087.88	2.40	0	4000	65.2	-34.8	0.0	0.0	50.8	3.2	-0.5	0.0	0.0	0.0	0.0	-0.0	11.7	-88.3
40	705107.85	5159087.88	2.40	0	8000	56.1	-43.9	0.0	0.0	50.8	11.4	-0.5	0.0	0.0	0.0	0.0	-0.0	-5.5	-105.5
41	705119.53	5159123.60	2.40	0	63	51.8	-48.2	0.0	0.0	52.6	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	2.3	-97.7
42	705119.53	5159123.60	2.40	0	125	65.9	-34.1	0.0	0.0	52.6	0.1	-0.2	0.0	0.0	0.0	0.0	-0.0	13.4	-86.6
43	705119.53	5159123.60	2.40	0	250	72.4	-27.6	0.0	0.0	52.6	0.1	6.0	0.0	0.0	0.0	0.0	-0.0	13.7	-86.3

Line Source, ISO 9613, Name: "9a", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
44	705119.53	5159123.60	2.40	0	500	74.8	-25.2	0.0	0.0	52.6	0.2	3.4	0.0	0.0	0.0	0.0	-0.0	18.5	-81.5
45	705119.53	5159123.60	2.40	0	1000	74.0	-26.0	0.0	0.0	52.6	0.4	-0.6	0.0	0.0	0.0	0.0	-0.0	21.6	-78.4
46	705119.53	5159123.60	2.40	0	2000	72.2	-27.8	0.0	0.0	52.6	1.2	-1.2	0.0	0.0	0.0	0.0	-0.0	19.7	-80.3
47	705119.53	5159123.60	2.40	0	4000	65.0	-35.0	0.0	0.0	52.6	3.9	-1.2	0.0	0.0	0.0	0.0	-0.0	9.7	-90.3
48	705119.53	5159123.60	2.40	0	8000	55.9	-44.1	0.0	0.0	52.6	14.1	-1.2	0.0	0.0	0.0	0.0	-0.0	-9.5	-109.5
49	705118.67	5159147.36	2.40	0	63	51.9	-48.1	0.0	0.0	54.1	0.0	-3.5	0.0	0.0	0.0	0.0	-0.0	1.4	-98.6
50	705118.67	5159147.36	2.40	0	125	66.0	-34.0	0.0	0.0	54.1	0.1	-0.8	0.0	0.0	0.0	0.0	-0.0	12.7	-87.3
51	705118.67	5159147.36	2.40	0	250	72.5	-27.5	0.0	0.0	54.1	0.2	4.9	0.0	0.0	0.0	0.0	-0.0	13.4	-86.6
52	705118.67	5159147.36	2.40	0	500	74.9	-25.1	0.0	0.0	54.1	0.3	3.0	0.0	0.0	0.0	0.0	-0.0	17.6	-82.4
53	705118.67	5159147.36	2.40	0	1000	74.1	-25.9	0.0	0.0	54.1	0.5	-1.1	0.0	0.0	0.0	0.0	-0.0	20.6	-79.4
54	705118.67	5159147.36	2.40	0	2000	72.3	-27.7	0.0	0.0	54.1	1.4	-1.7	0.0	0.0	0.0	0.0	-0.0	18.6	-81.4
55	705118.67	5159147.36	2.40	0	4000	65.1	-34.9	0.0	0.0	54.1	4.7	-1.7	0.0	0.0	0.0	0.0	-0.0	8.1	-91.9
56	705118.67	5159147.36	2.40	0	8000	56.0	-44.0	0.0	0.0	54.1	16.6	-1.7	0.0	0.0	0.0	0.0	-0.0	-12.9	-112.9
57	705112.95	5159102.83	2.40	0	63	47.5	-52.5	0.0	0.0	51.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-1.0	-101.0
58	705112.95	5159102.83	2.40	0	125	61.6	-38.4	0.0	0.0	51.5	0.0	0.5	0.0	0.0	0.0	0.0	-0.0	9.5	-90.5
59	705112.95	5159102.83	2.40	0	250	68.1	-31.9	0.0	0.0	51.5	0.1	7.3	0.0	0.0	0.0	0.0	-0.0	9.2	-90.8
60	705112.95	5159102.83	2.40	0	500	70.5	-29.5	0.0	0.0	51.5	0.2	3.8	0.0	0.0	0.0	0.0	-0.0	14.9	-85.1
61	705112.95	5159102.83	2.40	0	1000	69.7	-30.3	0.0	0.0	51.5	0.4	-0.3	0.0	0.0	0.0	0.0	-0.0	18.0	-82.0
62	705112.95	5159102.83	2.40	0	2000	67.9	-32.1	0.0	0.0	51.5	1.0	-0.8	0.0	0.0	0.0	0.0	-0.0	16.2	-83.8
63	705112.95	5159102.83	2.40	0	4000	60.7	-39.3	0.0	0.0	51.5	3.5	-0.8	0.0	0.0	0.0	0.0	-0.0	6.5	-93.5
64	705112.95	5159102.83	2.40	0	8000	51.6	-48.4	0.0	0.0	51.5	12.4	-0.8	0.0	0.0	0.0	0.0	-0.0	-11.5	-111.5
65	705117.70	5159108.84	2.40	0	63	46.5	-53.5	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-2.2	-102.2
66	705117.70	5159108.84	2.40	0	125	60.6	-39.4	0.0	0.0	51.7	0.0	0.3	0.0	0.0	0.0	0.0	-0.0	8.6	-91.4
67	705117.70	5159108.84	2.40	0	250	67.1	-32.9	0.0	0.0	51.7	0.1	6.9	0.0	0.0	0.0	0.0	-0.0	8.4	-91.6
68	705117.70	5159108.84	2.40	0	500	69.5	-30.5	0.0	0.0	51.7	0.2	3.7	0.0	0.0	0.0	0.0	-0.0	13.9	-86.1
69	705117.70	5159108.84	2.40	0	1000	68.7	-31.3	0.0	0.0	51.7	0.4	-0.4	0.0	0.0	0.0	0.0	-0.0	17.0	-83.0
70	705117.70	5159108.84	2.40	0	2000	66.9	-33.1	0.0	0.0	51.7	1.1	-0.9	0.0	0.0	0.0	0.0	-0.0	15.1	-84.9
71	705117.70	5159108.84	2.40	0	4000	59.7	-40.3	0.0	0.0	51.7	3.5	-0.9	0.0	0.0	0.0	0.0	-0.0	5.4	-94.6
72	705117.70	5159108.84	2.40	0	8000	50.6	-49.4	0.0	0.0	51.7	12.6	-0.9	0.0	0.0	0.0	0.0	-0.0	-12.8	-112.8
73	705099.91	5159167.81	2.40	0	63	48.4	-51.6	0.0	0.0	55.5	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-3.3	-103.3
74	705099.91	5159167.81	2.40	0	125	62.5	-37.5	0.0	0.0	55.5	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	8.0	-92.0
75	705099.91	5159167.81	2.40	0	250	69.0	-31.0	0.0	0.0	55.5	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	8.7	-91.3
76	705099.91	5159167.81	2.40	0	500	71.4	-28.6	0.0	0.0	55.5	0.3	2.6	0.0	0.0	0.0	0.0	-0.0	12.9	-87.1
77	705099.91	5159167.81	2.40	0	1000	70.6	-29.4	0.0	0.0	55.5	0.6	-1.5	0.0	0.0	0.0	0.0	-0.0	15.9	-84.1
78	705099.91	5159167.81	2.40	0	2000	68.8	-31.2	0.0	0.0	55.5	1.6	-2.1	0.0	0.0	0.0	0.0	-0.0	13.7	-86.3
79	705099.91	5159167.81	2.40	0	4000	61.6	-38.4	0.0	0.0	55.5	5.5	-2.1	0.0	0.0	0.0	0.0	-0.0	2.6	-97.3
80	705099.91	5159167.81	2.40	0	8000	52.5	-47.5	0.0	0.0	55.5	19.7	-2.1	0.0	0.0	0.0	0.0	-0.0	-20.6	-120.6
81	705115.11	5159162.57	2.40	0	63	47.2	-52.8	0.0	0.0	54.9	0.0	-3.8	0.0	0.0	0.0	0.0	-0.0	-4.0	-104.0
82	705115.11	5159162.57	2.40	0	125	61.3	-38.7	0.0	0.0	54.9	0.1	-1.0	0.0	0.0	0.0	0.0	-0.0	7.3	-92.7
83	705115.11	5159162.57	2.40	0	250	67.8	-32.2	0.0	0.0	54.9	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	7.9	-92.1
84	705115.11	5159162.57	2.40	0	500	70.2	-29.8	0.0	0.0	54.9	0.3	2.8	0.0	0.0	0.0	0.0	-0.0	12.2	-87.8
85	705115.11	5159162.57	2.40	0	1000	69.4	-30.6	0.0	0.0	54.9	0.6	-1.4	0.0	0.0	0.0	0.0	-0.0	15.2	-84.8
86	705115.11	5159162.57	2.40	0	2000	67.6	-32.4	0.0	0.0	54.9	1.5	-2.0	0.0	0.0	0.0	0.0	-0.0	13.1	-86.9
87	705115.11	5159162.57	2.40	0	4000	60.4	-39.6	0.0	0.0	54.9	5.2	-2.0	0.0	0.0	0.0	0.0	-0.0	2.2	-97.8
88	705115.11	5159162.57	2.40	0	8000	51.3	-48.7	0.0	0.0	54.9	18.4	-2.0	0.0	0.0	0.0	0.0	-0.0	-20.1	-120.1
89	705090.81	5159158.44	2.40	0	63	47.2	-52.8	0.0	0.0	55.3	0.0	-3.9	0.0	0.0	5.5	0.0	-0.0	-9.8	-109.8
90	705090.81	5159158.44	2.40	0	125	61.3	-38.7	0.0	0.0	55.3	0.1	-1.1	0.0	0.0	7.8	0.0	-0.0	-0.9	-100.8
91	705090.81	5159158.44	2.40	0	250	67.8	-32.2	0.0	0.0	55.3	0.2	4.6	0.0	0.0	8.8	0.0	-0.0	-1.0	-101.0
92	705090.81	5159158.44	2.40	0	500	70.2	-29.8	0.0	0.0	55.3	0.3	2.6	0.0	0.0	13.0	0.0	-0.0	-1.1	-101.1
93	705090.81	5159158.44	2.40	0	1000	69.4	-30.6	0.0	0.0	55.3	0.6	-1.4	0.0	0.0	16.8	0.0	-0.0	-1.9	-101.9
94	705090.81	5159158.44	2.40	0	2000	67.6	-32.4	0.0	0.0	55.3	1.6	-2.0	0.0	0.0	19.4	0.0	-0.0	-6.6	-106.6
95	705090.81	5159158.44	2.40	0	4000	60.4	-39.6	0.0	0.0	55.3	5.4	-2.0	0.0	0.0	21.3	0.0	-0.0	-19.5	-119.5
96	705090.81	5159158.44	2.40	0	8000	51.3	-48.7	0.0	0.0	55.3	19.2	-2.0	0.0	0.0	22.8	0.0	-0.0	-43.9	-143.9
97	705108.92	5159167.00	2.40	0	63	47.0	-53.0	0.0	0.0	55.3	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-4.4	-104.4
98	705108.92	5159167.00	2.40	0	125	61.1	-38.9	0.0	0.0	55.3	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	6.8	-93.2
99	705108.92	5159167.00	2.40	0	250	67.6	-32.4	0.0	0.0	55.3	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	7.5	-92.5
100	705108.92	5159167.00	2.40	0	500	70.0	-30.0	0.0	0.0	55.3	0.3	2.7	0.0	0.0	0.0	0.0	-0.0	11.7	-88.3
101	705108.92	5159167.00	2.40	0	1000	69.2	-30.8	0.0	0.0	55.3	0.6	-1.5	0.0	0.0	0.0	0.0	-0.0	14.8	-85.2
102	705108.92	5159167.00	2.40	0	2000	67.4	-32.6	0.0	0.0	55.3	1.6	-2.1	0.0	0.0	0.0	0.0	-0.0	12.6	-87.4
103	705108.92	5159167.00	2.40	0	4000	60.2	-39.8	0.0	0.0	55.3	5.4	-2.1	0.0	0.0	0.0	0.0	-0.0	1.6	-98.4
104	705108.92	5159167.00	2.40	0	8000	51.1	-48.9	0.0	0.0	55.3	19.2	-2.1	0.0	0.0	0.0	0.0	-0.0	-21.3	-121.3
105	705093.47	5159165.89	2.40	0	63	43.8	-56.2	0.0	0.0	55.6	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-7.9	-107.9
106	705093.47	5159165.89	2.40	0	125	57.9	-42.1	0.0	0.0	55.6	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	3.3	-96.7

Line Source, ISO 9613, Name: "9a", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
107	705093.47	5159165.89	2.40	0	250	64.4	-35.6	0.0	0.0	55.6	0.2	4.7	0.0	0.0	0.0	0.0	-0.0	3.9	-96.1
108	705093.47	5159165.89	2.40	0	500	66.8	-33.2	0.0	0.0	55.6	0.3	2.7	0.0	0.0	0.0	0.0	-0.0	8.2	-91.8
109	705093.47	5159165.89	2.40	0	1000	66.0	-34.0	0.0	0.0	55.6	0.6	-1.5	0.0	0.0	0.0	0.0	-0.0	11.2	-88.8
110	705093.47	5159165.89	2.40	0	2000	64.2	-35.8	0.0	0.0	55.6	1.6	-2.1	0.0	0.0	0.0	0.0	-0.0	9.1	-90.9
111	705093.47	5159165.89	2.40	0	4000	57.0	-43.0	0.0	0.0	55.6	5.6	-2.1	0.0	0.0	0.0	0.0	-0.0	-2.1	-102.1
112	705093.47	5159165.89	2.40	0	8000	47.9	-52.1	0.0	0.0	55.6	19.8	-2.1	0.0	0.0	0.0	0.0	-0.0	-25.4	-125.5
113	705091.64	5159163.47	2.40	0	63	41.8	-58.2	0.0	0.0	55.5	0.0	-3.9	0.0	0.0	3.0	0.0	-0.0	-12.8	-112.8
114	705091.64	5159163.47	2.40	0	125	55.9	-44.1	0.0	0.0	55.5	0.1	-1.1	0.0	0.0	3.7	0.0	-0.0	-2.3	-102.3
115	705091.64	5159163.47	2.40	0	250	62.4	-37.6	0.0	0.0	55.5	0.2	4.7	0.0	0.0	3.2	0.0	-0.0	-1.2	-101.1
116	705091.64	5159163.47	2.40	0	500	64.8	-35.2	0.0	0.0	55.5	0.3	2.7	0.0	0.0	5.3	0.0	-0.0	0.9	-99.1
117	705091.64	5159163.47	2.40	0	1000	64.0	-36.0	0.0	0.0	55.5	0.6	-1.5	0.0	0.0	7.2	0.0	-0.0	2.1	-97.9
118	705091.64	5159163.47	2.40	0	2000	62.2	-37.8	0.0	0.0	55.5	1.6	-2.1	0.0	0.0	9.0	0.0	-0.0	-1.9	-101.9
119	705091.64	5159163.47	2.40	0	4000	55.0	-45.0	0.0	0.0	55.5	5.5	-2.1	0.0	0.0	11.2	0.0	-0.0	-15.1	-115.1
120	705091.64	5159163.47	2.40	0	8000	45.9	-54.1	0.0	0.0	55.5	19.7	-2.1	0.0	0.0	13.5	0.0	-0.0	-40.7	-140.7
121	705118.04	5159154.52	2.40	1	500	71.0	-29.0	0.0	0.0	55.4	0.3	2.7	0.0	0.0	0.0	0.0	1.0	11.6	-88.4
122	705118.04	5159154.52	2.40	1	1000	70.2	-29.8	0.0	0.0	55.4	0.6	-1.4	0.0	0.0	0.0	0.0	1.0	14.6	-85.4
123	705118.04	5159154.52	2.40	1	2000	68.4	-31.6	0.0	0.0	55.4	1.6	-2.0	0.0	0.0	0.0	0.0	1.0	12.4	-87.6
124	705118.04	5159154.52	2.40	1	4000	61.2	-38.8	0.0	0.0	55.4	5.4	-2.0	0.0	0.0	0.0	0.0	1.0	1.4	-98.6
125	705118.04	5159154.52	2.40	1	8000	52.1	-47.9	0.0	0.0	55.4	19.4	-2.0	0.0	0.0	0.0	0.0	1.0	-21.7	-121.7
126	705104.65	5159168.20	2.40	1	250	59.4	-40.6	0.0	0.0	55.7	0.2	4.6	0.0	0.0	0.0	0.0	1.0	-2.2	-102.2
127	705104.65	5159168.20	2.40	1	500	61.8	-38.2	0.0	0.0	55.7	0.3	2.7	0.0	0.0	0.0	0.0	1.0	2.0	-98.0
128	705104.65	5159168.20	2.40	1	1000	61.0	-39.0	0.0	0.0	55.7	0.6	-1.5	0.0	0.0	0.0	0.0	1.0	5.1	-94.9
129	705104.65	5159168.20	2.40	1	2000	59.2	-40.8	0.0	0.0	55.7	1.7	-2.1	0.0	0.0	0.0	0.0	1.0	2.9	-97.1
130	705104.65	5159168.20	2.40	1	4000	52.0	-48.0	0.0	0.0	55.7	5.7	-2.1	0.0	0.0	0.0	0.0	1.0	-8.3	-108.3
131	705104.65	5159168.20	2.40	1	8000	42.9	-57.1	0.0	0.0	55.7	20.2	-2.1	0.0	0.0	0.0	0.0	1.0	-31.9	-131.9
132	705115.11	5159162.57	2.40	1	500	70.2	-29.8	0.0	0.0	55.7	0.3	2.7	0.0	0.0	0.0	0.0	1.0	10.4	-89.6
133	705115.11	5159162.57	2.40	1	1000	69.4	-30.6	0.0	0.0	55.7	0.6	-1.4	0.0	0.0	0.0	0.0	1.0	13.5	-86.5
134	705115.11	5159162.57	2.40	1	2000	67.6	-32.4	0.0	0.0	55.7	1.7	-2.1	0.0	0.0	0.0	0.0	1.0	11.3	-88.7
135	705115.11	5159162.57	2.40	1	4000	60.4	-39.6	0.0	0.0	55.7	5.6	-2.1	0.0	0.0	0.0	0.0	1.0	0.1	-99.9
136	705115.11	5159162.57	2.40	1	8000	51.3	-48.7	0.0	0.0	55.7	20.1	-2.1	0.0	0.0	0.0	0.0	1.0	-23.4	-123.4
137	705108.92	5159167.00	2.40	1	500	70.0	-30.0	0.0	0.0	55.8	0.3	2.5	0.0	0.0	0.0	0.0	1.0	10.4	-89.6
138	705108.92	5159167.00	2.40	1	1000	69.2	-30.8	0.0	0.0	55.8	0.6	-1.5	0.0	0.0	0.0	0.0	1.0	13.4	-86.6
139	705108.92	5159167.00	2.40	1	2000	67.4	-32.6	0.0	0.0	55.8	1.7	-2.2	0.0	0.0	0.0	0.0	1.0	11.1	-88.9
140	705108.92	5159167.00	2.40	1	4000	60.2	-39.8	0.0	0.0	55.8	5.7	-2.2	0.0	0.0	0.0	0.0	1.0	-0.1	-100.1
141	705108.92	5159167.00	2.40	1	8000	51.1	-48.9	0.0	0.0	55.8	20.2	-2.2	0.0	0.0	0.0	0.0	1.0	-23.7	-123.7

Line Source, ISO 9613, Name: "9b", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705103.74	5159075.86	2.40	0	63	53.0	-47.0	0.0	0.0	50.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	5.8	-94.3
2	705103.74	5159075.86	2.40	0	125	67.1	-32.9	0.0	0.0	50.2	0.0	1.5	0.0	0.0	0.0	0.0	-0.0	15.4	-84.6
3	705103.74	5159075.86	2.40	0	250	73.6	-26.4	0.0	0.0	50.2	0.1	9.3	0.0	0.0	0.0	0.0	-0.0	14.0	-86.0
4	705103.74	5159075.86	2.40	0	500	76.0	-24.0	0.0	0.0	50.2	0.2	4.6	0.0	0.0	0.0	0.0	-0.0	20.9	-79.0
5	705103.74	5159075.86	2.40	0	1000	75.2	-24.8	0.0	0.0	50.2	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	24.3	-75.7
6	705103.74	5159075.86	2.40	0	2000	73.4	-26.6	0.0	0.0	50.2	0.9	-0.2	0.0	0.0	0.0	0.0	-0.0	22.5	-77.5
7	705103.74	5159075.86	2.40	0	4000	66.2	-33.8	0.0	0.0	50.2	3.0	-0.2	0.0	0.0	0.0	0.0	-0.0	13.2	-86.8
8	705103.74	5159075.86	2.40	0	8000	57.1	-42.9	0.0	0.0	50.2	10.7	-0.2	0.0	0.0	0.0	0.0	-0.0	-3.6	-103.6
9	705105.63	5159045.00	2.40	0	63	53.0	-47.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.7	-92.3
10	705105.63	5159045.00	2.40	0	125	67.1	-32.9	0.0	0.0	48.3	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	17.4	-82.6
11	705105.63	5159045.00	2.40	0	250	73.6	-26.4	0.0	0.0	48.3	0.1	8.7	0.0	0.0	0.0	0.0	-0.0	16.5	-83.5
12	705105.63	5159045.00	2.40	0	500	76.0	-24.0	0.0	0.0	48.3	0.1	4.3	0.0	0.0	0.0	0.0	-0.0	23.2	-76.8
13	705105.63	5159045.00	2.40	0	1000	75.2	-24.8	0.0	0.0	48.3	0.3	0.3	0.0	0.0	0.0	0.0	-0.0	26.3	-73.7
14	705105.63	5159045.00	2.40	0	2000	73.4	-26.6	0.0	0.0	48.3	0.7	-0.2	0.0	0.0	0.0	0.0	-0.0	24.6	-75.4
15	705105.63	5159045.00	2.40	0	4000	66.2	-33.8	0.0	0.0	48.3	2.4	-0.2	0.0	0.0	0.0	0.0	-0.0	15.7	-84.3
16	705105.63	5159045.00	2.40	0	8000	57.1	-42.9	0.0	0.0	48.3	8.6	-0.2	0.0	0.0	0.0	0.0	-0.0	0.4	-99.6
17	705107.52	5159014.14	2.40	0	63	53.0	-47.0	0.0	0.0	47.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	8.7	-91.3
18	705107.52	5159014.14	2.40	0	125	67.1	-32.9	0.0	0.0	47.3	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	18.4	-81.6
19	705107.52	5159014.14	2.40	0	250	73.6	-26.4	0.0	0.0	47.3	0.1	8.4	0.0	0.0	0.0	0.0	-0.0	17.8	-82.2
20	705107.52	5159014.14	2.40	0	500	76.0	-24.0	0.0	0.0	47.3	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	24.4	-75.6
21	705107.52	5159014.14	2.40	0	1000	75.2	-24.8	0.0	0.0	47.3	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	27.3	-72.7
22	705107.52	5159014.14	2.40	0	2000	73.4	-26.6	0.0	0.0	47.3	0.6	-0.1	0.0	0.0	0.0	0.0	-0.0	25.6	-74.4
23	705107.52	5159014.14	2.40	0	4000	66.2	-33.8	0.0	0.0	47.3	2.1	-0.1	0.0	0.0	0.0	0.0	-0.0	16.9	-83.1
24	705107.52	5159014.14	2.40	0	8000	57.1	-42.9	0.0	0.0	47.3	7.7	-0.1	0.0	0.0	0.0	0.0	-0.0	2.2	-97.8

Line Source, ISO 9613, Name: "9b", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
25	705109.42	5158983.28	2.40	0	63	53.0	-47.0	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	7.9	-92.1
26	705109.42	5158983.28	2.40	0	125	67.1	-32.9	0.0	0.0	48.1	0.0	1.4	0.0	0.0	0.0	0.0	-0.0	17.6	-82.4
27	705109.42	5158983.28	2.40	0	250	73.6	-26.4	0.0	0.0	48.1	0.1	8.7	0.0	0.0	0.0	0.0	-0.0	16.7	-83.3
28	705109.42	5158983.28	2.40	0	500	76.0	-24.0	0.0	0.0	48.1	0.1	4.3	0.0	0.0	0.0	0.0	-0.0	23.4	-76.5
29	705109.42	5158983.28	2.40	0	1000	75.2	-24.8	0.0	0.0	48.1	0.3	0.4	0.0	0.0	0.0	0.0	-0.0	26.5	-73.5
30	705109.42	5158983.28	2.40	0	2000	73.4	-26.6	0.0	0.0	48.1	0.7	-0.1	0.0	0.0	0.0	0.0	-0.0	24.8	-75.2
31	705109.42	5158983.28	2.40	0	4000	66.2	-33.8	0.0	0.0	48.1	2.3	-0.1	0.0	0.0	0.0	0.0	-0.0	15.9	-84.1
32	705109.42	5158983.28	2.40	0	8000	57.1	-42.9	0.0	0.0	48.1	8.4	-0.1	0.0	0.0	0.0	0.0	-0.0	0.8	-99.2
33	705098.86	5159097.35	2.40	0	63	49.7	-50.3	0.0	0.0	51.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	0.9	-99.1
34	705098.86	5159097.35	2.40	0	125	63.8	-36.2	0.0	0.0	51.8	0.1	0.6	0.0	0.0	0.0	0.0	-0.0	11.3	-88.7
35	705098.86	5159097.35	2.40	0	250	70.3	-29.7	0.0	0.0	51.8	0.1	7.7	0.0	0.0	0.0	0.0	-0.0	10.7	-89.3
36	705098.86	5159097.35	2.40	0	500	72.7	-27.3	0.0	0.0	51.8	0.2	4.1	0.0	0.0	0.0	0.0	-0.0	16.6	-83.4
37	705098.86	5159097.35	2.40	0	1000	71.9	-28.1	0.0	0.0	51.8	0.4	-0.2	0.0	0.0	0.0	0.0	-0.0	19.8	-80.2
38	705098.86	5159097.35	2.40	0	2000	70.1	-29.9	0.0	0.0	51.8	1.1	-0.8	0.0	0.0	0.0	0.0	-0.0	18.0	-82.0
39	705098.86	5159097.35	2.40	0	4000	62.9	-37.1	0.0	0.0	51.8	3.6	-0.8	0.0	0.0	0.0	0.0	-0.0	8.2	-91.8
40	705098.86	5159097.35	2.40	0	8000	53.8	-46.2	0.0	0.0	51.8	12.9	-0.8	0.0	0.0	0.0	0.0	-0.0	-10.1	-110.1
41	705093.44	5159112.09	2.40	0	63	47.1	-52.9	0.0	0.0	52.9	0.0	-3.2	0.0	0.0	0.0	0.0	-0.0	-2.6	-102.6
42	705093.44	5159112.09	2.40	0	125	61.2	-38.8	0.0	0.0	52.9	0.1	0.0	0.0	0.0	0.0	0.0	-0.0	8.3	-91.7
43	705093.44	5159112.09	2.40	0	250	67.7	-32.3	0.0	0.0	52.9	0.1	6.3	0.0	0.0	0.0	0.0	-0.0	8.3	-91.7
44	705093.44	5159112.09	2.40	0	500	70.1	-29.9	0.0	0.0	52.9	0.2	3.5	0.0	0.0	0.0	0.0	-0.0	13.4	-86.6
45	705093.44	5159112.09	2.40	0	1000	69.3	-30.7	0.0	0.0	52.9	0.5	-0.6	0.0	0.0	0.0	0.0	-0.0	16.5	-83.5
46	705093.44	5159112.09	2.40	0	2000	67.5	-32.5	0.0	0.0	52.9	1.2	-1.2	0.0	0.0	0.0	0.0	-0.0	14.6	-85.4
47	705093.44	5159112.09	2.40	0	4000	60.3	-39.7	0.0	0.0	52.9	4.1	-1.2	0.0	0.0	0.0	0.0	-0.0	4.5	-95.5
48	705093.44	5159112.09	2.40	0	8000	51.2	-48.8	0.0	0.0	52.9	14.6	-1.2	0.0	0.0	0.0	0.0	-0.0	-15.1	-115.1
49	705094.52	5159105.77	2.40	0	63	44.9	-55.1	0.0	0.0	52.5	0.0	-3.1	0.0	0.0	0.0	0.0	-0.0	-4.6	-104.6
50	705094.52	5159105.77	2.40	0	125	59.0	-41.0	0.0	0.0	52.5	0.1	0.3	0.0	0.0	0.0	0.0	-0.0	6.2	-93.8
51	705094.52	5159105.77	2.40	0	250	65.5	-34.5	0.0	0.0	52.5	0.1	6.9	0.0	0.0	0.0	0.0	-0.0	5.9	-94.1
52	705094.52	5159105.77	2.40	0	500	67.9	-32.1	0.0	0.0	52.5	0.2	3.8	0.0	0.0	0.0	0.0	-0.0	11.3	-88.7
53	705094.52	5159105.77	2.40	0	1000	67.1	-32.9	0.0	0.0	52.5	0.4	-0.4	0.0	0.0	0.0	0.0	-0.0	14.5	-85.5
54	705094.52	5159105.77	2.40	0	2000	65.3	-34.7	0.0	0.0	52.5	1.2	-1.0	0.0	0.0	0.0	0.0	-0.0	12.6	-87.4
55	705094.52	5159105.77	2.40	0	4000	58.1	-41.9	0.0	0.0	52.5	3.9	-1.0	0.0	0.0	0.0	0.0	-0.0	2.7	-97.3
56	705094.52	5159105.77	2.40	0	8000	49.0	-51.0	0.0	0.0	52.5	14.0	-1.0	0.0	0.0	0.0	0.0	-0.0	-16.5	-116.5
57	705093.59	5159111.20	2.40	1	125	62.1	-37.9	0.0	0.0	53.5	0.1	-0.3	0.0	0.0	0.0	0.0	1.0	7.8	-92.2
58	705093.59	5159111.20	2.40	1	250	68.6	-31.4	0.0	0.0	53.5	0.1	5.9	0.0	0.0	0.0	0.0	1.0	8.1	-91.9
59	705093.59	5159111.20	2.40	1	500	71.0	-29.0	0.0	0.0	53.5	0.3	3.4	0.0	0.0	0.0	0.0	1.0	12.9	-87.1
60	705093.59	5159111.20	2.40	1	1000	70.2	-29.8	0.0	0.0	53.5	0.5	-0.7	0.0	0.0	0.0	0.0	1.0	16.0	-84.0
61	705093.59	5159111.20	2.40	1	2000	68.4	-31.6	0.0	0.0	53.5	1.3	-1.3	0.0	0.0	0.0	0.0	1.0	14.0	-86.0
62	705093.59	5159111.20	2.40	1	4000	61.2	-38.8	0.0	0.0	53.5	4.4	-1.3	0.0	0.0	0.0	0.0	1.0	3.7	-96.3
63	705093.59	5159111.20	2.40	1	8000	52.1	-47.9	0.0	0.0	53.5	15.5	-1.3	0.0	0.0	0.0	0.0	1.0	-16.6	-116.6

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705172.34	5159127.58	1.20	0	63	45.2	-57.8	0.0	0.0	51.9	0.0	-3.8	0.0	0.0	0.0	0.0	-0.0	-2.9	-106.0
2	705172.34	5159127.58	1.20	0	125	57.3	-45.7	0.0	0.0	51.9	0.1	-1.2	0.0	0.0	0.0	0.0	-0.0	6.5	-96.5
3	705172.34	5159127.58	1.20	0	250	55.6	-47.4	0.0	0.0	51.9	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	-0.6	-103.6
4	705172.34	5159127.58	1.20	0	500	58.9	-44.1	0.0	0.0	51.9	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	4.4	-98.6
5	705172.34	5159127.58	1.20	0	1000	61.9	-41.1	0.0	0.0	51.9	0.4	-1.4	0.0	0.0	0.0	0.0	-0.0	11.0	-92.0
6	705172.34	5159127.58	1.20	0	2000	58.0	-45.0	0.0	0.0	51.9	1.1	-2.0	0.0	0.0	0.0	0.0	-0.0	7.0	-96.0
7	705172.34	5159127.58	1.20	0	4000	52.4	-50.6	0.0	0.0	51.9	3.7	-2.0	0.0	0.0	0.0	0.0	-0.0	-1.2	-104.2
8	705172.34	5159127.58	1.20	0	8000	48.7	-54.3	0.0	0.0	51.9	13.1	-2.0	0.0	0.0	0.0	0.0	-0.0	-14.3	-117.3
9	705138.78	5159120.44	1.20	0	63	45.2	-57.8	0.0	0.0	51.8	0.0	-3.8	0.0	0.0	0.0	0.0	-0.0	-2.8	-105.8
10	705138.78	5159120.44	1.20	0	125	57.3	-45.7	0.0	0.0	51.8	0.1	-1.2	0.0	0.0	0.0	0.0	-0.0	6.6	-96.4
11	705138.78	5159120.44	1.20	0	250	55.6	-47.4	0.0	0.0	51.8	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	-0.6	-103.6
12	705138.78	5159120.44	1.20	0	500	58.9	-44.1	0.0	0.0	51.8	0.2	2.4	0.0	0.0	0.0	0.0	-0.0	4.5	-98.6
13	705138.78	5159120.44	1.20	0	1000	61.9	-41.1	0.0	0.0	51.8	0.4	-1.4	0.0	0.0	0.0	0.0	-0.0	11.0	-92.0
14	705138.78	5159120.44	1.20	0	2000	58.0	-45.0	0.0	0.0	51.8	1.1	-1.9	0.0	0.0	0.0	0.0	-0.0	7.0	-96.0
15	705138.78	5159120.44	1.20	0	4000	52.4	-50.6	0.0	0.0	51.8	3.6	-1.9	0.0	0.0	0.0	0.0	-0.0	-1.1	-104.1
16	705138.78	5159120.44	1.20	0	8000	48.7	-54.3	0.0	0.0	51.8	12.9	-1.9	0.0	0.0	0.0	0.0	-0.0	-14.1	-117.1
17	705147.66	5159125.54	1.20	0	63	47.0	-56.0	0.0	0.0	52.0	0.0	-3.8	0.0	0.0	0.0	0.0	-0.0	-1.2	-104.2
18	705147.66	5159125.54	1.20	0	125	59.1	-43.9	0.0	0.0	52.0	0.1	-1.2	0.0	0.0	0.0	0.0	-0.0	8.2	-94.8
19	705147.66	5159125.54	1.20	0	250	57.4	-45.6	0.0	0.0	52.0	0.1	4.3	0.0	0.0	0.0	0.0	-0.0	1.0	-102.1
20	705147.66	5159125.54	1.20	0	500	60.7	-42.3	0.0	0.0	52.0	0.2	2.4	0.0	0.0	0.0	0.0	-0.0	6.0	-97.0

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
21	705147.66	5159125.54	1.20	0	1000	63.7	-39.3	0.0	0.0	52.0	0.4	-1.4	0.0	0.0	0.0	0.0	-0.0	12.7	-90.3
22	705147.66	5159125.54	1.20	0	2000	59.8	-43.2	0.0	0.0	52.0	1.1	-2.0	0.0	0.0	0.0	0.0	-0.0	8.7	-94.3
23	705147.66	5159125.54	1.20	0	4000	54.2	-48.8	0.0	0.0	52.0	3.7	-2.0	0.0	0.0	0.0	0.0	-0.0	0.5	-102.5
24	705147.66	5159125.54	1.20	0	8000	50.5	-52.5	0.0	0.0	52.0	13.2	-2.0	0.0	0.0	0.0	0.0	-0.0	-12.7	-115.7
25	705179.60	5159134.06	1.20	0	63	41.5	-61.5	0.0	0.0	52.5	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-7.0	-110.0
26	705179.60	5159134.06	1.20	0	125	53.6	-49.4	0.0	0.0	52.5	0.1	-1.3	0.0	0.0	0.0	0.0	-0.0	2.4	-100.6
27	705179.60	5159134.06	1.20	0	250	51.9	-51.1	0.0	0.0	52.5	0.1	4.1	0.0	0.0	0.0	0.0	-0.0	-4.8	-107.8
28	705179.60	5159134.06	1.20	0	500	55.2	-47.8	0.0	0.0	52.5	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	0.2	-102.8
29	705179.60	5159134.06	1.20	0	1000	58.2	-44.8	0.0	0.0	52.5	0.4	-1.5	0.0	0.0	0.0	0.0	-0.0	6.9	-96.1
30	705179.60	5159134.06	1.20	0	2000	54.3	-48.7	0.0	0.0	52.5	1.1	-2.1	0.0	0.0	0.0	0.0	-0.0	2.8	-100.2
31	705179.60	5159134.06	1.20	0	4000	48.7	-54.3	0.0	0.0	52.5	3.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-5.5	-108.5
32	705179.60	5159134.06	1.20	0	8000	45.0	-58.0	0.0	0.0	52.5	13.8	-2.1	0.0	0.0	0.0	0.0	-0.0	-19.2	-122.2
33	705115.74	5159115.15	1.20	0	63	41.0	-62.0	0.0	0.0	52.2	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-7.3	-110.3
34	705115.74	5159115.15	1.20	0	125	53.1	-49.9	0.0	0.0	52.2	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	2.0	-101.0
35	705115.74	5159115.15	1.20	0	250	51.4	-51.6	0.0	0.0	52.2	0.1	4.3	0.0	0.0	0.0	0.0	-0.0	-5.2	-108.2
36	705115.74	5159115.15	1.20	0	500	54.7	-48.3	0.0	0.0	52.2	0.2	2.5	0.0	0.0	0.0	0.0	-0.0	-0.2	-103.2
37	705115.74	5159115.15	1.20	0	1000	57.7	-45.3	0.0	0.0	52.2	0.4	-1.3	0.0	0.0	0.0	0.0	-0.0	6.4	-96.6
38	705115.74	5159115.15	1.20	0	2000	53.8	-49.2	0.0	0.0	52.2	1.1	-1.9	0.0	0.0	0.0	0.0	-0.0	2.4	-100.6
39	705115.74	5159115.15	1.20	0	4000	48.2	-54.8	0.0	0.0	52.2	3.8	-1.9	0.0	0.0	0.0	0.0	-0.0	-5.9	-108.9
40	705115.74	5159115.15	1.20	0	8000	44.5	-58.5	0.0	0.0	52.2	13.4	-1.9	0.0	0.0	0.0	0.0	-0.0	-19.2	-122.2
41	705117.18	5159116.65	1.20	0	63	40.6	-62.4	0.0	0.0	52.2	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-7.7	-110.7
42	705117.18	5159116.65	1.20	0	125	52.7	-50.3	0.0	0.0	52.2	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	1.6	-101.4
43	705117.18	5159116.65	1.20	0	250	51.0	-52.0	0.0	0.0	52.2	0.1	4.4	0.0	0.0	0.0	0.0	-0.0	-5.7	-108.7
44	705117.18	5159116.65	1.20	0	500	54.3	-48.7	0.0	0.0	52.2	0.2	2.6	0.0	0.0	0.0	0.0	-0.0	-0.7	-103.7
45	705117.18	5159116.65	1.20	0	1000	57.3	-45.7	0.0	0.0	52.2	0.4	-1.3	0.0	0.0	0.0	0.0	-0.0	6.0	-97.0
46	705117.18	5159116.65	1.20	0	2000	53.4	-49.6	0.0	0.0	52.2	1.1	-1.9	0.0	0.0	0.0	0.0	-0.0	2.0	-101.0
47	705117.18	5159116.65	1.20	0	4000	47.8	-55.2	0.0	0.0	52.2	3.8	-1.9	0.0	0.0	0.0	0.0	-0.0	-6.3	-109.3
48	705117.18	5159116.65	1.20	0	8000	44.1	-58.9	0.0	0.0	52.2	13.5	-1.9	0.0	0.0	0.0	0.0	-0.0	-19.6	-122.6
49	705106.23	5159114.13	1.20	0	63	40.1	-62.9	0.0	0.0	52.5	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-8.5	-111.5
50	705106.23	5159114.13	1.20	0	125	52.2	-50.8	0.0	0.0	52.5	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	0.7	-102.3
51	705106.23	5159114.13	1.20	0	250	50.5	-52.5	0.0	0.0	52.5	0.1	4.5	0.0	0.0	0.0	0.0	-0.0	-6.6	-109.6
52	705106.23	5159114.13	1.20	0	500	53.8	-49.2	0.0	0.0	52.5	0.2	2.6	0.0	0.0	0.0	0.0	-0.0	-1.6	-104.6
53	705106.23	5159114.13	1.20	0	1000	56.8	-46.2	0.0	0.0	52.5	0.4	-1.3	0.0	0.0	0.0	0.0	-0.0	5.2	-97.8
54	705106.23	5159114.13	1.20	0	2000	52.9	-50.1	0.0	0.0	52.5	1.2	-1.9	0.0	0.0	0.0	0.0	-0.0	1.2	-101.9
55	705106.23	5159114.13	1.20	0	4000	47.3	-55.7	0.0	0.0	52.5	3.9	-1.9	0.0	0.0	0.0	0.0	-0.0	-7.2	-110.2
56	705106.23	5159114.13	1.20	0	8000	43.6	-59.4	0.0	0.0	52.5	13.9	-1.9	0.0	0.0	0.0	0.0	-0.0	-20.9	-123.9
57	705192.28	5159135.73	1.20	0	63	40.3	-62.8	0.0	0.0	52.7	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-8.4	-111.5
58	705192.28	5159135.73	1.20	0	125	52.4	-50.7	0.0	0.0	52.7	0.1	-1.4	0.0	0.0	0.0	0.0	-0.0	1.0	-102.0
59	705192.28	5159135.73	1.20	0	250	50.7	-52.4	0.0	0.0	52.7	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	-6.3	-109.3
60	705192.28	5159135.73	1.20	0	500	54.0	-49.1	0.0	0.0	52.7	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	-1.3	-104.3
61	705192.28	5159135.73	1.20	0	1000	57.0	-46.1	0.0	0.0	52.7	0.4	-1.6	0.0	0.0	0.0	0.0	-0.0	5.4	-97.6
62	705192.28	5159135.73	1.20	0	2000	53.1	-50.0	0.0	0.0	52.7	1.2	-2.2	0.0	0.0	0.0	0.0	-0.0	1.4	-101.6
63	705192.28	5159135.73	1.20	0	4000	47.5	-55.6	0.0	0.0	52.7	4.0	-2.2	0.0	0.0	0.0	0.0	-0.0	-7.0	-110.0
64	705192.28	5159135.73	1.20	0	8000	43.8	-59.3	0.0	0.0	52.7	14.2	-2.2	0.0	0.0	0.0	0.0	-0.0	-20.9	-123.9
65	705192.48	5159135.04	1.20	0	63	40.2	-62.9	0.0	0.0	52.6	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-8.5	-111.5
66	705192.48	5159135.04	1.20	0	125	52.3	-50.8	0.0	0.0	52.6	0.1	-1.4	0.0	0.0	0.0	0.0	-0.0	0.9	-102.1
67	705192.48	5159135.04	1.20	0	250	50.6	-52.5	0.0	0.0	52.6	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	-6.4	-109.4
68	705192.48	5159135.04	1.20	0	500	53.9	-49.2	0.0	0.0	52.6	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	-1.3	-104.3
69	705192.48	5159135.04	1.20	0	1000	56.9	-46.2	0.0	0.0	52.6	0.4	-1.6	0.0	0.0	0.0	0.0	-0.0	5.3	-97.7
70	705192.48	5159135.04	1.20	0	2000	53.0	-50.1	0.0	0.0	52.6	1.2	-2.1	0.0	0.0	0.0	0.0	-0.0	1.3	-101.7
71	705192.48	5159135.04	1.20	0	4000	47.4	-55.7	0.0	0.0	52.6	3.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-7.1	-110.1
72	705192.48	5159135.04	1.20	0	8000	43.7	-59.4	0.0	0.0	52.6	14.1	-2.1	0.0	0.0	0.0	0.0	-0.0	-20.9	-123.9
73	705104.41	5159112.89	1.20	0	63	39.9	-63.1	0.0	0.0	52.5	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-8.6	-111.6
74	705104.41	5159112.89	1.20	0	125	52.0	-51.0	0.0	0.0	52.5	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	0.6	-102.4
75	705104.41	5159112.89	1.20	0	250	50.3	-52.7	0.0	0.0	52.5	0.1	4.4	0.0	0.0	0.0	0.0	-0.0	-6.6	-109.6
76	705104.41	5159112.89	1.20	0	500	53.6	-49.4	0.0	0.0	52.5	0.2	2.5	0.0	0.0	0.0	0.0	-0.0	-1.6	-104.6
77	705104.41	5159112.89	1.20	0	1000	56.6	-46.4	0.0	0.0	52.5	0.4	-1.3	0.0	0.0	0.0	0.0	-0.0	5.0	-98.0
78	705104.41	5159112.89	1.20	0	2000	52.7	-50.3	0.0	0.0	52.5	1.2	-1.9	0.0	0.0	0.0	0.0	-0.0	1.0	-102.0
79	705104.41	5159112.89	1.20	0	4000	47.1	-55.9	0.0	0.0	52.5	3.9	-1.9	0.0	0.0	0.0	0.0	-0.0	-7.4	-110.4
80	705104.41	5159112.89	1.20	0	8000	43.4	-59.6	0.0	0.0	52.5	13.9	-1.9	0.0	0.0	0.0	0.0	-0.0	-21.1	-124.1
81	705192.77	5159132.99	1.20	0	63	40.0	-63.0	0.0	0.0	52.5	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-8.5	-111.5
82	705192.77	5159132.99	1.20	0	125	52.1	-50.9	0.0	0.0	52.5	0.1	-1.3	0.0	0.0	0.0	0.0	-0.0	0.9	-102.1
83	705192.77	5159132.99	1.20	0	250	50.4	-52.6	0.0	0.0	52.5	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	-6.4	-109.4

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
84	705192.77	5159132.99	1.20	0	500	53.7	-49.3	0.0	0.0	52.5	0.2	2.4	0.0	0.0	0.0	0.0	-0.0	-1.3	-104.3
85	705192.77	5159132.99	1.20	0	1000	56.7	-46.3	0.0	0.0	52.5	0.4	-1.5	0.0	0.0	0.0	0.0	-0.0	5.3	-97.7
86	705192.77	5159132.99	1.20	0	2000	52.8	-50.2	0.0	0.0	52.5	1.2	-2.1	0.0	0.0	0.0	0.0	-0.0	1.3	-101.7
87	705192.77	5159132.99	1.20	0	4000	47.2	-55.8	0.0	0.0	52.5	3.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-7.0	-110.0
88	705192.77	5159132.99	1.20	0	8000	43.5	-59.5	0.0	0.0	52.5	13.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-20.7	-123.7
89	705192.42	5159134.25	1.20	0	63	40.0	-63.0	0.0	0.0	52.6	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-8.6	-111.6
90	705192.42	5159134.25	1.20	0	125	52.1	-50.9	0.0	0.0	52.6	0.1	-1.3	0.0	0.0	0.0	0.0	-0.0	0.8	-102.2
91	705192.42	5159134.25	1.20	0	250	50.4	-52.6	0.0	0.0	52.6	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	-6.5	-109.5
92	705192.42	5159134.25	1.20	0	500	53.7	-49.3	0.0	0.0	52.6	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	-1.4	-104.4
93	705192.42	5159134.25	1.20	0	1000	56.7	-46.3	0.0	0.0	52.6	0.4	-1.5	0.0	0.0	0.0	0.0	-0.0	5.3	-97.8
94	705192.42	5159134.25	1.20	0	2000	52.8	-50.2	0.0	0.0	52.6	1.2	-2.1	0.0	0.0	0.0	0.0	-0.0	1.2	-101.8
95	705192.42	5159134.25	1.20	0	4000	47.2	-55.8	0.0	0.0	52.6	3.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-7.1	-110.1
96	705192.42	5159134.25	1.20	0	8000	43.5	-59.5	0.0	0.0	52.6	14.0	-2.1	0.0	0.0	0.0	0.0	-0.0	-20.9	-123.9
97	705192.59	5159133.65	1.20	0	63	39.9	-63.1	0.0	0.0	52.5	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-8.7	-111.7
98	705192.59	5159133.65	1.20	0	125	52.0	-51.0	0.0	0.0	52.5	0.1	-1.3	0.0	0.0	0.0	0.0	-0.0	0.8	-102.2
99	705192.59	5159133.65	1.20	0	250	50.3	-52.7	0.0	0.0	52.5	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	-6.5	-109.5
100	705192.59	5159133.65	1.20	0	500	53.6	-49.4	0.0	0.0	52.5	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	-1.5	-104.5
101	705192.59	5159133.65	1.20	0	1000	56.6	-46.4	0.0	0.0	52.5	0.4	-1.5	0.0	0.0	0.0	0.0	-0.0	5.2	-97.8
102	705192.59	5159133.65	1.20	0	2000	52.7	-50.3	0.0	0.0	52.5	1.2	-2.1	0.0	0.0	0.0	0.0	-0.0	1.2	-101.8
103	705192.59	5159133.65	1.20	0	4000	47.1	-55.9	0.0	0.0	52.5	3.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-7.2	-110.2
104	705192.59	5159133.65	1.20	0	8000	43.4	-59.6	0.0	0.0	52.5	13.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-20.9	-123.9
105	705193.55	5159132.13	1.20	0	63	39.4	-63.6	0.0	0.0	52.4	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-9.1	-112.1
106	705193.55	5159132.13	1.20	0	125	51.5	-51.5	0.0	0.0	52.4	0.1	-1.3	0.0	0.0	0.0	0.0	-0.0	0.3	-102.7
107	705193.55	5159132.13	1.20	0	250	49.8	-53.2	0.0	0.0	52.4	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	-7.0	-110.0
108	705193.55	5159132.13	1.20	0	500	53.1	-49.9	0.0	0.0	52.4	0.2	2.4	0.0	0.0	0.0	0.0	-0.0	-1.9	-104.9
109	705193.55	5159132.13	1.20	0	1000	56.1	-46.9	0.0	0.0	52.4	0.4	-1.5	0.0	0.0	0.0	0.0	-0.0	4.8	-98.3
110	705193.55	5159132.13	1.20	0	2000	52.2	-50.8	0.0	0.0	52.4	1.1	-2.1	0.0	0.0	0.0	0.0	-0.0	0.7	-102.3
111	705193.55	5159132.13	1.20	0	4000	46.6	-56.4	0.0	0.0	52.4	3.9	-2.1	0.0	0.0	0.0	0.0	-0.0	-7.6	-110.6
112	705193.55	5159132.13	1.20	0	8000	42.9	-60.1	0.0	0.0	52.4	13.8	-2.1	0.0	0.0	0.0	0.0	-0.0	-21.2	-124.2
113	705098.06	5159114.62	1.20	0	63	35.2	-67.8	0.0	0.0	52.9	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-13.6	-116.6
114	705098.06	5159114.62	1.20	0	125	47.3	-55.7	0.0	0.0	52.9	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	-4.5	-107.5
115	705098.06	5159114.62	1.20	0	250	45.6	-57.4	0.0	0.0	52.9	0.1	4.5	0.0	0.0	0.0	0.0	-0.0	-11.9	-114.9
116	705098.06	5159114.62	1.20	0	500	48.9	-54.1	0.0	0.0	52.9	0.2	2.6	0.0	0.0	0.0	0.0	-0.0	-6.8	-109.8
117	705098.06	5159114.62	1.20	0	1000	51.9	-51.1	0.0	0.0	52.9	0.5	-1.3	0.0	0.0	0.0	0.0	-0.0	-0.1	-103.1
118	705098.06	5159114.62	1.20	0	2000	48.0	-55.0	0.0	0.0	52.9	1.2	-1.9	0.0	0.0	0.0	0.0	-0.0	-4.1	-107.1
119	705098.06	5159114.62	1.20	0	4000	42.4	-60.6	0.0	0.0	52.9	4.1	-1.9	0.0	0.0	0.0	0.0	-0.0	-12.6	-115.6
120	705098.06	5159114.62	1.20	0	8000	38.7	-64.3	0.0	0.0	52.9	14.5	-1.9	0.0	0.0	0.0	0.0	-0.0	-26.7	-129.7
121	705099.06	5159111.76	1.20	0	63	34.0	-69.0	0.0	0.0	52.7	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-14.7	-117.7
122	705099.06	5159111.76	1.20	0	125	46.1	-56.9	0.0	0.0	52.7	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	-5.5	-108.5
123	705099.06	5159111.76	1.20	0	250	44.4	-58.6	0.0	0.0	52.7	0.1	4.5	0.0	0.0	0.0	0.0	-0.0	-12.9	-115.9
124	705099.06	5159111.76	1.20	0	500	47.7	-55.3	0.0	0.0	52.7	0.2	2.7	0.0	0.0	0.0	0.0	-0.0	-7.8	-110.8
125	705099.06	5159111.76	1.20	0	1000	50.7	-52.3	0.0	0.0	52.7	0.4	-1.3	0.0	0.0	0.0	0.0	-0.0	-1.1	-104.1
126	705099.06	5159111.76	1.20	0	2000	46.8	-56.2	0.0	0.0	52.7	1.2	-1.9	0.0	0.0	0.0	0.0	-0.0	-5.1	-108.1
127	705099.06	5159111.76	1.20	0	4000	41.2	-61.8	0.0	0.0	52.7	4.0	-1.9	0.0	0.0	0.0	0.0	-0.0	-13.5	-116.5
128	705099.06	5159111.76	1.20	0	8000	37.5	-65.5	0.0	0.0	52.7	14.2	-1.9	0.0	0.0	0.0	0.0	-0.0	-27.4	-130.4
129	705098.87	5159115.43	1.20	0	63	33.3	-69.7	0.0	0.0	52.9	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-15.5	-118.6
130	705098.87	5159115.43	1.20	0	125	45.4	-57.6	0.0	0.0	52.9	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	-6.4	-109.4
131	705098.87	5159115.43	1.20	0	250	43.7	-59.3	0.0	0.0	52.9	0.1	4.5	0.0	0.0	0.0	0.0	-0.0	-13.8	-116.8
132	705098.87	5159115.43	1.20	0	500	47.0	-56.0	0.0	0.0	52.9	0.2	2.6	0.0	0.0	0.0	0.0	-0.0	-8.7	-111.7
133	705098.87	5159115.43	1.20	0	1000	50.0	-53.0	0.0	0.0	52.9	0.5	-1.3	0.0	0.0	0.0	0.0	-0.0	-2.0	-105.0
134	705098.87	5159115.43	1.20	0	2000	46.1	-56.9	0.0	0.0	52.9	1.2	-1.9	0.0	0.0	0.0	0.0	-0.0	-6.0	-109.0
135	705098.87	5159115.43	1.20	0	4000	40.5	-62.5	0.0	0.0	52.9	4.1	-1.9	0.0	0.0	0.0	0.0	-0.0	-14.5	-117.5
136	705098.87	5159115.43	1.20	0	8000	36.8	-66.2	0.0	0.0	52.9	14.5	-1.9	0.0	0.0	0.0	0.0	-0.0	-28.6	-131.6
137	705100.11	5159113.86	1.20	0	63	33.0	-70.0	0.0	0.0	52.7	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-15.7	-118.7
138	705100.11	5159113.86	1.20	0	125	45.1	-57.9	0.0	0.0	52.7	0.1	-1.1	0.0	0.0	0.0	0.0	-0.0	-6.5	-109.6
139	705100.11	5159113.86	1.20	0	250	43.4	-59.6	0.0	0.0	52.7	0.1	4.5	0.0	0.0	0.0	0.0	-0.0	-13.9	-116.9
140	705100.11	5159113.86	1.20	0	500	46.7	-56.3	0.0	0.0	52.7	0.2	2.6	0.0	0.0	0.0	0.0	-0.0	-8.8	-111.8
141	705100.11	5159113.86	1.20	0	1000	49.7	-53.3	0.0	0.0	52.7	0.5	-1.3	0.0	0.0	0.0	0.0	-0.0	-2.1	-105.1
142	705100.11	5159113.86	1.20	0	2000	45.8	-57.2	0.0	0.0	52.7	1.2	-1.9	0.0	0.0	0.0	0.0	-0.0	-6.2	-109.2
143	705100.11	5159113.86	1.20	0	4000	40.2	-62.8	0.0	0.0	52.7	4.0	-1.9	0.0	0.0	0.0	0.0	-0.0	-14.6	-117.6
144	705100.11	5159113.86	1.20	0	8000	36.5	-66.5	0.0	0.0	52.7	14.3	-1.9	0.0	0.0	0.0	0.0	-0.0	-28.6	-131.6
145	705099.46	5159111.47	1.20	0	63	32.4	-70.6	0.0	0.0	52.6	0.0	-4.0	0.0	0.0	0.0	0.0	-0.0	-16.2	-119.2
146	705099.46	5159111.47	1.20	0	125	44.5	-58.5	0.0	0.0	52.6	0.1	-1.0	0.0	0.0	0.0	0.0	-0.0	-7.1	-110.1

Line Source, ISO 9613, Name: "11", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
147	705099.46	5159111.47	1.20	0	250	42.8	-60.2	0.0	0.0	52.6	0.1	4.5	0.0	0.0	0.0	0.0	-0.0	-14.4	-117.5
148	705099.46	5159111.47	1.20	0	500	46.1	-56.9	0.0	0.0	52.6	0.2	2.7	0.0	0.0	0.0	0.0	-0.0	-9.4	-112.4
149	705099.46	5159111.47	1.20	0	1000	49.1	-53.9	0.0	0.0	52.6	0.4	-1.3	0.0	0.0	0.0	0.0	-0.0	-2.7	-105.7
150	705099.46	5159111.47	1.20	0	2000	45.2	-57.8	0.0	0.0	52.6	1.2	-1.9	0.0	0.0	0.0	0.0	-0.0	-6.7	-109.7
151	705099.46	5159111.47	1.20	0	4000	39.6	-63.4	0.0	0.0	52.6	3.9	-1.9	0.0	0.0	0.0	0.0	-0.0	-15.1	-118.1
152	705099.46	5159111.47	1.20	0	8000	35.9	-67.1	0.0	0.0	52.6	14.1	-1.9	0.0	0.0	0.0	0.0	-0.0	-28.9	-131.9
153	705097.99	5159114.87	1.20	1	63	34.5	-68.5	0.0	0.0	53.1	0.0	-4.1	0.0	0.0	0.0	0.0	1.0	-15.5	-118.5
154	705097.99	5159114.87	1.20	1	125	46.6	-56.4	0.0	0.0	53.1	0.1	-1.2	0.0	0.0	0.0	0.0	1.0	-6.4	-109.4
155	705097.99	5159114.87	1.20	1	250	44.9	-58.1	0.0	0.0	53.1	0.1	4.4	0.0	0.0	0.0	0.0	1.0	-13.7	-116.7
156	705097.99	5159114.87	1.20	1	500	48.2	-54.8	0.0	0.0	53.1	0.3	2.5	0.0	0.0	0.0	0.0	1.0	-8.7	-111.7
157	705097.99	5159114.87	1.20	1	1000	51.2	-51.8	0.0	0.0	53.1	0.5	-1.4	0.0	0.0	0.0	0.0	1.0	-1.9	-105.0
158	705097.99	5159114.87	1.20	1	2000	47.3	-55.7	0.0	0.0	53.1	1.2	-2.0	0.0	0.0	0.0	0.0	1.0	-6.0	-109.0
159	705097.99	5159114.87	1.20	1	4000	41.7	-61.3	0.0	0.0	53.1	4.2	-2.0	0.0	0.0	0.0	0.0	1.0	-14.6	-117.6
160	705097.99	5159114.87	1.20	1	8000	38.0	-65.0	0.0	0.0	53.1	14.9	-2.0	0.0	0.0	0.0	0.0	1.0	-29.0	-132.0
161	705098.81	5159115.62	1.20	1	63	32.5	-70.5	0.0	0.0	53.0	0.0	-4.1	0.0	0.0	0.0	0.0	1.0	-17.5	-120.5
162	705098.81	5159115.62	1.20	1	125	44.6	-58.4	0.0	0.0	53.0	0.1	-1.2	0.0	0.0	0.0	0.0	1.0	-8.3	-111.3
163	705098.81	5159115.62	1.20	1	250	42.9	-60.1	0.0	0.0	53.0	0.1	4.4	0.0	0.0	0.0	0.0	1.0	-15.7	-118.7
164	705098.81	5159115.62	1.20	1	500	46.2	-56.8	0.0	0.0	53.0	0.2	2.5	0.0	0.0	0.0	0.0	1.0	-10.6	-113.6
165	705098.81	5159115.62	1.20	1	1000	49.2	-53.8	0.0	0.0	53.0	0.5	-1.4	0.0	0.0	0.0	0.0	1.0	-3.9	-106.9
166	705098.81	5159115.62	1.20	1	2000	45.3	-57.7	0.0	0.0	53.0	1.2	-2.0	0.0	0.0	0.0	0.0	1.0	-8.0	-111.0
167	705098.81	5159115.62	1.20	1	4000	39.7	-63.3	0.0	0.0	53.0	4.1	-2.0	0.0	0.0	0.0	0.0	1.0	-16.5	-119.5
168	705098.81	5159115.62	1.20	1	8000	36.0	-67.0	0.0	0.0	53.0	14.8	-2.0	0.0	0.0	0.0	0.0	1.0	-30.8	-133.8

vert. Area Source, ISO 9613, Name: "4", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705088.14	5159153.07	1.80	0	63	52.1	-88.0	3.0	0.0	55.1	0.0	-4.2	0.0	0.0	10.2	0.0	-0.0	-6.1	-88.0
2	705088.14	5159153.07	1.80	0	125	60.6	-88.0	3.0	0.0	55.1	0.1	-1.3	0.0	0.0	13.7	0.0	-0.0	-4.0	-88.0
3	705088.14	5159153.07	1.80	0	250	68.1	-88.0	3.0	0.0	55.1	0.2	4.4	0.0	0.0	15.3	0.0	-0.0	-3.9	-88.0
4	705088.14	5159153.07	1.80	0	500	71.7	-88.0	3.0	0.0	55.1	0.3	2.5	0.0	0.0	18.9	0.0	-0.0	-2.2	-88.0
5	705088.14	5159153.07	1.80	0	1000	74.5	-88.0	3.0	0.0	55.1	0.6	-1.7	0.0	0.0	21.7	0.0	-0.0	1.8	-88.0
6	705088.14	5159153.07	1.80	0	2000	74.8	-88.0	3.0	0.0	55.1	1.6	-2.3	0.0	0.0	23.0	0.0	-0.0	0.4	-88.0
7	705088.14	5159153.07	1.80	0	4000	73.9	-88.0	3.0	0.0	55.1	5.3	-2.3	0.0	0.0	23.9	0.0	-0.0	-5.2	-88.0
8	705088.14	5159153.07	1.80	0	8000	72.7	-88.0	3.0	0.0	55.1	18.9	-2.3	0.0	0.0	24.4	0.0	-0.0	-20.5	-88.0
9	705088.14	5159153.07	0.80	0	63	52.1	-88.0	3.0	0.0	55.1	0.0	-4.7	0.0	0.0	10.5	0.0	-0.0	-5.8	-88.0
10	705088.14	5159153.07	0.80	0	125	60.6	-88.0	3.0	0.0	55.1	0.1	-1.9	0.0	0.0	13.9	0.0	-0.0	-3.7	-88.0
11	705088.14	5159153.07	0.80	0	250	68.1	-88.0	3.0	0.0	55.1	0.2	3.9	0.0	0.0	15.9	0.0	-0.0	-4.0	-88.0
12	705088.14	5159153.07	0.80	0	500	71.7	-88.0	3.0	0.0	55.1	0.3	1.9	0.0	0.0	19.2	0.0	-0.0	-1.9	-88.0
13	705088.14	5159153.07	0.80	0	1000	74.5	-88.0	3.0	0.0	55.1	0.6	-2.2	0.0	0.0	21.7	0.0	-0.0	2.3	-88.0
14	705088.14	5159153.07	0.80	0	2000	74.8	-88.0	3.0	0.0	55.1	1.6	-2.8	0.0	0.0	23.0	0.0	-0.0	0.9	-88.0
15	705088.14	5159153.07	0.80	0	4000	73.9	-88.0	3.0	0.0	55.1	5.3	-2.8	0.0	0.0	23.9	0.0	-0.0	-4.6	-88.0
16	705088.14	5159153.07	0.80	0	8000	72.7	-88.0	3.0	0.0	55.1	18.9	-2.8	0.0	0.0	24.4	0.0	-0.0	-19.9	-88.0
17	705088.14	5159153.07	2.80	0	63	52.1	-88.0	3.0	0.0	55.1	0.0	-3.6	0.0	0.0	9.9	0.0	-0.0	-6.3	-88.0
18	705088.14	5159153.07	2.80	0	125	60.6	-88.0	3.0	0.0	55.1	0.1	-0.7	0.0	0.0	13.3	0.0	-0.0	-4.2	-88.0
19	705088.14	5159153.07	2.80	0	250	68.1	-88.0	3.0	0.0	55.1	0.2	5.0	0.0	0.0	14.4	0.0	-0.0	-3.6	-88.0
20	705088.14	5159153.07	2.80	0	500	71.7	-88.0	3.0	0.0	55.1	0.3	3.0	0.0	0.0	18.7	0.0	-0.0	-2.5	-88.0
21	705088.14	5159153.07	2.80	0	1000	74.5	-88.0	3.0	0.0	55.1	0.6	-1.1	0.0	0.0	21.7	0.0	-0.0	1.2	-88.0
22	705088.14	5159153.07	2.80	0	2000	74.8	-88.0	3.0	0.0	55.1	1.6	-1.7	0.0	0.0	23.0	0.0	-0.0	-0.2	-88.0
23	705088.14	5159153.07	2.80	0	4000	73.9	-88.0	3.0	0.0	55.1	5.3	-1.7	0.0	0.0	23.9	0.0	-0.0	-5.7	-88.0
24	705088.14	5159153.07	2.80	0	8000	72.7	-88.0	3.0	0.0	55.1	18.9	-1.7	0.0	0.0	24.4	0.0	-0.0	-21.0	-88.0
25	705088.14	5159153.07	3.80	0	63	52.1	-88.0	3.0	0.0	55.1	0.0	-3.0	0.0	0.0	9.3	0.0	-0.0	-6.3	-88.0
26	705088.14	5159153.07	3.80	0	125	60.6	-88.0	3.0	0.0	55.1	0.1	0.1	0.0	0.0	12.8	0.0	-0.0	-4.5	-88.0
27	705088.14	5159153.07	3.80	0	250	68.1	-88.0	3.0	0.0	55.1	0.2	5.8	0.0	0.0	13.0	0.0	-0.0	-3.1	-88.0
28	705088.14	5159153.07	3.80	0	500	71.7	-88.0	3.0	0.0	55.1	0.3	3.5	0.0	0.0	17.8	0.0	-0.0	-2.0	-88.0
29	705088.14	5159153.07	3.80	0	1000	74.5	-88.0	3.0	0.0	55.1	0.6	-0.6	0.0	0.0	21.7	0.0	-0.0	0.7	-88.0
30	705088.14	5159153.07	3.80	0	2000	74.8	-88.0	3.0	0.0	55.1	1.6	-1.3	0.0	0.0	23.0	0.0	-0.0	-0.7	-88.0
31	705088.14	5159153.07	3.80	0	4000	73.9	-88.0	3.0	0.0	55.1	5.3	-1.3	0.0	0.0	23.9	0.0	-0.0	-6.2	-88.0
32	705088.14	5159153.07	3.80	0	8000	72.7	-88.0	3.0	0.0	55.1	18.9	-1.3	0.0	0.0	24.4	0.0	-0.0	-21.5	-88.0
33	705088.14	5159153.07	0.15	0	63	46.9	-88.0	3.0	0.0	55.1	0.0	-5.1	0.0	0.0	10.7	0.0	-0.0	-10.9	-88.0
34	705088.14	5159153.07	0.15	0	125	55.4	-88.0	3.0	0.0	55.1	0.1	-2.2	0.0	0.0	14.1	0.0	-0.0	-8.7	-88.0
35	705088.14	5159153.07	0.15	0	250	62.8	-88.0	3.0	0.0	55.1	0.2	3.5	0.0	0.0	16.3	0.0	-0.0	-9.3	-88.0
36	705088.14	5159153.07	0.15	0	500	66.5	-88.0	3.0	0.0	55.1	0.3	1.5	0.0	0.0	19.3	0.0	-0.0	-6.9	-88.0
37	705088.14	5159153.07	0.15	0	1000	69.3	-88.0	3.0	0.0	55.1	0.6	-2.6	0.0	0.0	21.7	0.0	-0.0	-2.6	-88.0

vert. Area Source, ISO 9613, Name: "4", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
38	705088.14	5159153.07	0.15	0	2000	69.6	-88.0	3.0	0.0	55.1	1.6	-3.2	0.0	0.0	23.0	0.0	-0.0	-3.9	-88.0
39	705088.14	5159153.07	0.15	0	4000	68.7	-88.0	3.0	0.0	55.1	5.3	-3.2	0.0	0.0	23.9	0.0	-0.0	-9.5	-88.0
40	705088.14	5159153.07	0.15	0	8000	67.4	-88.0	3.0	0.0	55.1	18.9	-3.2	0.0	0.0	24.4	0.0	-0.0	-24.8	-88.0

vert. Area Source, ISO 9613, Name: "6", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705095.05	5159153.47	2.80	0	63	52.1	-88.0	3.0	0.0	55.0	0.0	-3.5	0.0	0.0	7.7	0.0	-0.0	-4.0	-88.0
2	705095.05	5159153.47	2.80	0	125	60.6	-88.0	3.0	0.0	55.0	0.1	-0.7	0.0	0.0	10.3	0.0	-0.0	-1.0	-88.0
3	705095.05	5159153.47	2.80	0	250	68.1	-88.0	3.0	0.0	55.0	0.2	5.0	0.0	0.0	11.4	0.0	-0.0	-0.5	-88.0
4	705095.05	5159153.47	2.80	0	500	71.7	-88.0	3.0	0.0	55.0	0.3	3.1	0.0	0.0	15.7	0.0	-0.0	0.7	-88.0
5	705095.05	5159153.47	2.80	0	1000	74.5	-88.0	3.0	0.0	55.0	0.6	-1.1	0.0	0.0	18.9	0.0	-0.0	4.1	-88.0
6	705095.05	5159153.47	2.80	0	2000	74.8	-88.0	3.0	0.0	55.0	1.5	-1.7	0.0	0.0	20.9	0.0	-0.0	2.1	-88.0
7	705095.05	5159153.47	2.80	0	4000	73.9	-88.0	3.0	0.0	55.0	5.2	-1.7	0.0	0.0	22.5	0.0	-0.0	-4.1	-88.0
8	705095.05	5159153.47	2.80	0	8000	72.7	-88.0	3.0	0.0	55.0	18.5	-1.7	0.0	0.0	23.6	0.0	-0.0	-19.7	-88.0
9	705095.05	5159153.47	1.80	0	63	52.1	-88.0	3.0	0.0	55.0	0.0	-4.1	0.0	0.0	8.0	0.0	-0.0	-3.7	-88.0
10	705095.05	5159153.47	1.80	0	125	60.6	-88.0	3.0	0.0	55.0	0.1	-1.3	0.0	0.0	10.5	0.0	-0.0	-0.7	-88.0
11	705095.05	5159153.47	1.80	0	250	68.1	-88.0	3.0	0.0	55.0	0.2	4.5	0.0	0.0	12.1	0.0	-0.0	-0.7	-88.0
12	705095.05	5159153.47	1.80	0	500	71.7	-88.0	3.0	0.0	55.0	0.3	2.5	0.0	0.0	16.1	0.0	-0.0	0.8	-88.0
13	705095.05	5159153.47	1.80	0	1000	74.5	-88.0	3.0	0.0	55.0	0.6	-1.6	0.0	0.0	18.9	0.0	-0.0	4.7	-88.0
14	705095.05	5159153.47	1.80	0	2000	74.8	-88.0	3.0	0.0	55.0	1.5	-2.3	0.0	0.0	20.9	0.0	-0.0	2.7	-88.0
15	705095.05	5159153.47	1.80	0	4000	73.9	-88.0	3.0	0.0	55.0	5.2	-2.3	0.0	0.0	22.5	0.0	-0.0	-3.5	-88.0
16	705095.05	5159153.47	1.80	0	8000	72.7	-88.0	3.0	0.0	55.0	18.5	-2.3	0.0	0.0	23.6	0.0	-0.0	-19.1	-88.0
17	705095.05	5159153.47	0.80	0	63	52.1	-88.0	3.0	0.0	55.0	0.0	-4.7	0.0	0.0	8.2	0.0	-0.0	-3.3	-88.0
18	705095.05	5159153.47	0.80	0	125	60.6	-88.0	3.0	0.0	55.0	0.1	-1.9	0.0	0.0	10.7	0.0	-0.0	-0.3	-88.0
19	705095.05	5159153.47	0.80	0	250	68.1	-88.0	3.0	0.0	55.0	0.2	3.9	0.0	0.0	12.6	0.0	-0.0	-0.6	-88.0
20	705095.05	5159153.47	0.80	0	500	71.7	-88.0	3.0	0.0	55.0	0.3	1.9	0.0	0.0	16.2	0.0	-0.0	1.3	-88.0
21	705095.05	5159153.47	0.80	0	1000	74.5	-88.0	3.0	0.0	55.0	0.6	-2.2	0.0	0.0	18.9	0.0	-0.0	5.3	-88.0
22	705095.05	5159153.47	0.80	0	2000	74.8	-88.0	3.0	0.0	55.0	1.5	-2.8	0.0	0.0	20.9	0.0	-0.0	3.2	-88.0
23	705095.05	5159153.47	0.80	0	4000	73.9	-88.0	3.0	0.0	55.0	5.2	-2.8	0.0	0.0	22.5	0.0	-0.0	-2.9	-88.0
24	705095.05	5159153.47	0.80	0	8000	72.7	-88.0	3.0	0.0	55.0	18.5	-2.8	0.0	0.0	23.6	0.0	-0.0	-18.5	-88.0
25	705095.05	5159153.47	3.80	0	63	52.1	-88.0	3.0	0.0	55.0	0.0	-3.0	0.0	0.0	7.3	0.0	-0.0	-4.2	-88.0
26	705095.05	5159153.47	3.80	0	125	60.6	-88.0	3.0	0.0	55.0	0.1	0.2	0.0	0.0	9.8	0.0	-0.0	-1.5	-88.0
27	705095.05	5159153.47	3.80	0	250	68.1	-88.0	3.0	0.0	55.0	0.2	5.9	0.0	0.0	10.2	0.0	-0.0	-0.2	-88.0
28	705095.05	5159153.47	3.80	0	500	71.7	-88.0	3.0	0.0	55.0	0.3	3.5	0.0	0.0	15.0	0.0	-0.0	0.8	-88.0
29	705095.05	5159153.47	3.80	0	1000	74.5	-88.0	3.0	0.0	55.0	0.6	-0.6	0.0	0.0	18.9	0.0	-0.0	3.7	-88.0
30	705095.05	5159153.47	3.80	0	2000	74.8	-88.0	3.0	0.0	55.0	1.5	-1.2	0.0	0.0	20.9	0.0	-0.0	1.6	-88.0
31	705095.05	5159153.47	3.80	0	4000	73.9	-88.0	3.0	0.0	55.0	5.2	-1.2	0.0	0.0	22.5	0.0	-0.0	-4.5	-88.0
32	705095.05	5159153.47	3.80	0	8000	72.7	-88.0	3.0	0.0	55.0	18.5	-1.2	0.0	0.0	23.6	0.0	-0.0	-20.1	-88.0
33	705095.05	5159153.47	0.15	0	63	46.9	-88.0	3.0	0.0	55.0	0.0	-5.1	0.0	0.0	8.3	0.0	-0.0	-8.3	-88.0
34	705095.05	5159153.47	0.15	0	125	55.4	-88.0	3.0	0.0	55.0	0.1	-2.2	0.0	0.0	10.8	0.0	-0.0	-5.2	-88.0
35	705095.05	5159153.47	0.15	0	250	62.8	-88.0	3.0	0.0	55.0	0.2	3.5	0.0	0.0	12.9	0.0	-0.0	-5.7	-88.0
36	705095.05	5159153.47	0.15	0	500	66.5	-88.0	3.0	0.0	55.0	0.3	1.6	0.0	0.0	16.3	0.0	-0.0	-3.7	-88.0
37	705095.05	5159153.47	0.15	0	1000	69.3	-88.0	3.0	0.0	55.0	0.6	-2.6	0.0	0.0	18.9	0.0	-0.0	0.4	-88.0
38	705095.05	5159153.47	0.15	0	2000	69.6	-88.0	3.0	0.0	55.0	1.5	-3.2	0.0	0.0	20.9	0.0	-0.0	-1.6	-88.0
39	705095.05	5159153.47	0.15	0	4000	68.7	-88.0	3.0	0.0	55.0	5.2	-3.2	0.0	0.0	22.5	0.0	-0.0	-7.8	-88.0
40	705095.05	5159153.47	0.15	0	8000	67.4	-88.0	3.0	0.0	55.0	18.5	-3.2	0.0	0.0	23.6	0.0	-0.0	-23.4	-88.0

vert. Area Source, ISO 9613, Name: "5", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705090.31	5159116.41	0.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-4.4	0.0	0.0	0.0	0.0	-0.0	6.2	-88.0
2	705090.31	5159116.41	0.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	-1.5	0.0	0.0	0.0	0.0	-0.0	11.8	-88.0
3	705090.31	5159116.41	0.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	4.0	0.0	0.0	0.0	0.0	-0.0	13.6	-88.0
4	705090.31	5159116.41	0.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	2.2	0.0	0.0	0.0	0.0	-0.0	19.0	-88.0
5	705090.31	5159116.41	0.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-1.8	0.0	0.0	0.0	0.0	-0.0	25.5	-88.0
6	705090.31	5159116.41	0.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-2.3	0.0	0.0	0.0	0.0	-0.0	25.6	-88.0
7	705090.31	5159116.41	0.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-2.3	0.0	0.0	0.0	0.0	-0.0	21.7	-88.0
8	705090.31	5159116.41	0.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.2	-2.3	0.0	0.0	0.0	0.0	-0.0	9.5	-88.0
9	705090.31	5159116.41	1.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-3.7	0.0	0.0	0.0	0.0	-0.0	5.5	-88.0
10	705090.31	5159116.41	1.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	-0.8	0.0	0.0	0.0	0.0	-0.0	11.1	-88.0
11	705090.31	5159116.41	1.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	4.7	0.0	0.0	0.0	0.0	-0.0	12.9	-88.0
12	705090.31	5159116.41	1.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	2.9	0.0	0.0	0.0	0.0	-0.0	18.3	-88.0

vert. Area Source, ISO 9613, Name: "5", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
13	705090.31	5159116.41	1.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-1.1	0.0	0.0	0.0	0.0	-0.0	24.8	-88.0
14	705090.31	5159116.41	1.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-1.7	0.0	0.0	0.0	0.0	-0.0	24.9	-88.0
15	705090.31	5159116.41	1.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-1.7	0.0	0.0	0.0	0.0	-0.0	21.0	-88.0
16	705090.31	5159116.41	1.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.2	-1.7	0.0	0.0	0.0	0.0	-0.0	8.8	-88.0
17	705090.31	5159116.41	3.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.8	-88.0
18	705090.31	5159116.41	3.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	1.2	0.0	0.0	0.0	0.0	-0.0	9.1	-88.0
19	705090.31	5159116.41	3.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	6.6	0.0	0.0	0.0	0.0	-0.0	11.0	-88.0
20	705090.31	5159116.41	3.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	3.7	0.0	0.0	0.0	0.0	-0.0	17.4	-88.0
21	705090.31	5159116.41	3.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-0.2	0.0	0.0	0.0	0.0	-0.0	24.0	-88.0
22	705090.31	5159116.41	3.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-0.8	0.0	0.0	0.0	0.0	-0.0	24.1	-88.0
23	705090.31	5159116.41	3.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-0.8	0.0	0.0	0.0	0.0	-0.0	20.2	-88.0
24	705090.31	5159116.41	3.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.2	-0.8	0.0	0.0	0.0	0.0	-0.0	8.0	-88.0
25	705090.31	5159116.41	2.80	0	63	52.1	-88.0	3.0	0.0	53.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.8	-88.0
26	705090.31	5159116.41	2.80	0	125	60.6	-88.0	3.0	0.0	53.3	0.1	0.2	0.0	0.0	0.0	0.0	-0.0	10.1	-88.0
27	705090.31	5159116.41	2.80	0	250	68.1	-88.0	3.0	0.0	53.3	0.1	6.3	0.0	0.0	0.0	0.0	-0.0	11.3	-88.0
28	705090.31	5159116.41	2.80	0	500	71.7	-88.0	3.0	0.0	53.3	0.3	3.5	0.0	0.0	0.0	0.0	-0.0	17.7	-88.0
29	705090.31	5159116.41	2.80	0	1000	74.5	-88.0	3.0	0.0	53.3	0.5	-0.5	0.0	0.0	0.0	0.0	-0.0	24.3	-88.0
30	705090.31	5159116.41	2.80	0	2000	74.8	-88.0	3.0	0.0	53.3	1.3	-1.1	0.0	0.0	0.0	0.0	-0.0	24.4	-88.0
31	705090.31	5159116.41	2.80	0	4000	73.9	-88.0	3.0	0.0	53.3	4.3	-1.1	0.0	0.0	0.0	0.0	-0.0	20.4	-88.0
32	705090.31	5159116.41	2.80	0	8000	72.7	-88.0	3.0	0.0	53.3	15.2	-1.1	0.0	0.0	0.0	0.0	-0.0	8.3	-88.0
33	705090.31	5159116.41	0.15	0	63	46.9	-88.0	3.0	0.0	53.3	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	1.5	-88.0
34	705090.31	5159116.41	0.15	0	125	55.4	-88.0	3.0	0.0	53.3	0.1	-2.0	0.0	0.0	0.0	0.0	-0.0	7.0	-88.0
35	705090.31	5159116.41	0.15	0	250	62.8	-88.0	3.0	0.0	53.3	0.1	3.6	0.0	0.0	0.0	0.0	-0.0	8.8	-88.0
36	705090.31	5159116.41	0.15	0	500	66.5	-88.0	3.0	0.0	53.3	0.3	1.7	0.0	0.0	0.0	0.0	-0.0	14.2	-88.0
37	705090.31	5159116.41	0.15	0	1000	69.3	-88.0	3.0	0.0	53.3	0.5	-2.2	0.0	0.0	0.0	0.0	-0.0	20.7	-88.0
38	705090.31	5159116.41	0.15	0	2000	69.6	-88.0	3.0	0.0	53.3	1.3	-2.8	0.0	0.0	0.0	0.0	-0.0	20.9	-88.0
39	705090.31	5159116.41	0.15	0	4000	68.7	-88.0	3.0	0.0	53.3	4.3	-2.8	0.0	0.0	0.0	0.0	-0.0	16.9	-88.0
40	705090.31	5159116.41	0.15	0	8000	67.4	-88.0	3.0	0.0	53.3	15.2	-2.8	0.0	0.0	0.0	0.0	-0.0	4.7	-88.0

vert. Area Source, ISO 9613, Name: "7", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705097.13	5159116.81	0.80	0	63	52.1	-88.0	3.0	0.0	53.0	0.0	-4.4	0.0	0.0	0.0	0.0	-0.0	6.5	-88.0
2	705097.13	5159116.81	0.80	0	125	60.6	-88.0	3.0	0.0	53.0	0.1	-1.4	0.0	0.0	0.0	0.0	-0.0	12.0	-88.0
3	705097.13	5159116.81	0.80	0	250	68.1	-88.0	3.0	0.0	53.0	0.1	4.2	0.0	0.0	0.0	0.0	-0.0	13.7	-88.0
4	705097.13	5159116.81	0.80	0	500	71.7	-88.0	3.0	0.0	53.0	0.2	2.3	0.0	0.0	0.0	0.0	-0.0	19.1	-88.0
5	705097.13	5159116.81	0.80	0	1000	74.5	-88.0	3.0	0.0	53.0	0.5	-1.7	0.0	0.0	0.0	0.0	-0.0	25.7	-88.0
6	705097.13	5159116.81	0.80	0	2000	74.8	-88.0	3.0	0.0	53.0	1.2	-2.3	0.0	0.0	0.0	0.0	-0.0	25.9	-88.0
7	705097.13	5159116.81	0.80	0	4000	73.9	-88.0	3.0	0.0	53.0	4.1	-2.3	0.0	0.0	0.0	0.0	-0.0	22.0	-88.0
8	705097.13	5159116.81	0.80	0	8000	72.7	-88.0	3.0	0.0	53.0	14.8	-2.3	0.0	0.0	0.0	0.0	-0.0	10.2	-88.0
9	705097.13	5159116.81	2.80	0	63	52.1	-88.0	3.0	0.0	53.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	5.1	-88.0
10	705097.13	5159116.81	2.80	0	125	60.6	-88.0	3.0	0.0	53.0	0.1	0.4	0.0	0.0	0.0	0.0	-0.0	10.2	-88.0
11	705097.13	5159116.81	2.80	0	250	68.1	-88.0	3.0	0.0	53.0	0.1	6.7	0.0	0.0	0.0	0.0	-0.0	11.2	-88.0
12	705097.13	5159116.81	2.80	0	500	71.7	-88.0	3.0	0.0	53.0	0.2	3.7	0.0	0.0	0.0	0.0	-0.0	17.7	-88.0
13	705097.13	5159116.81	2.80	0	1000	74.5	-88.0	3.0	0.0	53.0	0.5	-0.4	0.0	0.0	0.0	0.0	-0.0	24.5	-88.0
14	705097.13	5159116.81	2.80	0	2000	74.8	-88.0	3.0	0.0	53.0	1.2	-1.0	0.0	0.0	0.0	0.0	-0.0	24.6	-88.0
15	705097.13	5159116.81	2.80	0	4000	73.9	-88.0	3.0	0.0	53.0	4.1	-1.0	0.0	0.0	0.0	0.0	-0.0	20.7	-88.0
16	705097.13	5159116.81	2.80	0	8000	72.7	-88.0	3.0	0.0	53.0	14.8	-1.0	0.0	0.0	0.0	0.0	-0.0	8.9	-88.0
17	705097.13	5159116.81	1.80	0	63	52.1	-88.0	3.0	0.0	53.0	0.0	-3.6	0.0	0.0	0.0	0.0	-0.0	5.7	-88.0
18	705097.13	5159116.81	1.80	0	125	60.6	-88.0	3.0	0.0	53.0	0.1	-0.7	0.0	0.0	0.0	0.0	-0.0	11.2	-88.0
19	705097.13	5159116.81	1.80	0	250	68.1	-88.0	3.0	0.0	53.0	0.1	4.9	0.0	0.0	0.0	0.0	-0.0	13.0	-88.0
20	705097.13	5159116.81	1.80	0	500	71.7	-88.0	3.0	0.0	53.0	0.2	3.0	0.0	0.0	0.0	0.0	-0.0	18.4	-88.0
21	705097.13	5159116.81	1.80	0	1000	74.5	-88.0	3.0	0.0	53.0	0.5	-1.0	0.0	0.0	0.0	0.0	-0.0	25.0	-88.0
22	705097.13	5159116.81	1.80	0	2000	74.8	-88.0	3.0	0.0	53.0	1.2	-1.6	0.0	0.0	0.0	0.0	-0.0	25.2	-88.0
23	705097.13	5159116.81	1.80	0	4000	73.9	-88.0	3.0	0.0	53.0	4.1	-1.6	0.0	0.0	0.0	0.0	-0.0	21.3	-88.0
24	705097.13	5159116.81	1.80	0	8000	72.7	-88.0	3.0	0.0	53.0	14.8	-1.6	0.0	0.0	0.0	0.0	-0.0	9.5	-88.0
25	705097.13	5159116.81	3.80	0	63	52.1	-88.0	3.0	0.0	53.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	5.1	-88.0
26	705097.13	5159116.81	3.80	0	125	60.6	-88.0	3.0	0.0	53.0	0.1	1.3	0.0	0.0	0.0	0.0	-0.0	9.2	-88.0
27	705097.13	5159116.81	3.80	0	250	68.1	-88.0	3.0	0.0	53.0	0.1	6.8	0.0	0.0	0.0	0.0	-0.0	11.1	-88.0
28	705097.13	5159116.81	3.80	0	500	71.7	-88.0	3.0	0.0	53.0	0.2	3.8	0.0	0.0	0.0	0.0	-0.0	17.6	-88.0
29	705097.13	5159116.81	3.80	0	1000	74.5	-88.0	3.0	0.0	53.0	0.5	-0.1	0.0	0.0	0.0	0.0	-0.0	24.2	-88.0
30	705097.13	5159116.81	3.80	0	2000	74.8	-88.0	3.0	0.0	53.0	1.2	-0.7	0.0	0.0	0.0	0.0	-0.0	24.3	-88.0
31	705097.13	5159116.81	3.80	0	4000	73.9	-88.0	3.0	0.0	53.0	4.1	-0.7	0.0	0.0	0.0	0.0	-0.0	20.5	-88.0

vert. Area Source, ISO 9613, Name: "7", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
32	705097.13	5159116.81	3.80	0	8000	72.7	-88.0	3.0	0.0	53.0	14.8	-0.7	0.0	0.0	0.0	0.0	-0.0	8.6	-88.0
33	705097.13	5159116.81	0.15	0	63	46.9	-88.0	3.0	0.0	53.0	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	1.7	-88.0
34	705097.13	5159116.81	0.15	0	125	55.4	-88.0	3.0	0.0	53.0	0.1	-1.9	0.0	0.0	0.0	0.0	-0.0	7.2	-88.0
35	705097.13	5159116.81	0.15	0	250	62.8	-88.0	3.0	0.0	53.0	0.1	3.7	0.0	0.0	0.0	0.0	-0.0	8.9	-88.0
36	705097.13	5159116.81	0.15	0	500	66.5	-88.0	3.0	0.0	53.0	0.2	1.8	0.0	0.0	0.0	0.0	-0.0	14.4	-88.0
37	705097.13	5159116.81	0.15	0	1000	69.3	-88.0	3.0	0.0	53.0	0.5	-2.1	0.0	0.0	0.0	0.0	-0.0	21.0	-88.0
38	705097.13	5159116.81	0.15	0	2000	69.6	-88.0	3.0	0.0	53.0	1.2	-2.7	0.0	0.0	0.0	0.0	-0.0	21.1	-88.0
39	705097.13	5159116.81	0.15	0	4000	68.7	-88.0	3.0	0.0	53.0	4.1	-2.7	0.0	0.0	0.0	0.0	-0.0	17.2	-88.0
40	705097.13	5159116.81	0.15	0	8000	67.4	-88.0	3.0	0.0	53.0	14.8	-2.7	0.0	0.0	0.0	0.0	-0.0	5.4	-88.0

Report (SSM Impulse (No Trees) v0.1 (20230411).cna)

Group Table, Day/Night

Name	Expression	Partial Sum Level																																										
		POR1a			POR1b			POR2a			POR2b			POR3a			POR3b			POR4a			POR4b			POR5a			POR5b			POR6a			POR6b			POR7a			POR7b		
		Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even

Sound Sources

Point Sources

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
12			119.0	119.0	119.0	Lw	119		0.0	0.0	0.0							0.0	500	(none)	1.20	r	705196.55	5159151.40	1.20

Line Sources

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(km/h)

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night

Area Sources vertical

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night			
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)	

Railway Tracks

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day	Night		Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)		(dB)	(dB)	(dB)	(dB)	(km/h)

Railway Classes

Name	M.	ID	Lm,E		Train Class											Add.Level				Vmax
			Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)	(dB)	(km/h)

Parking Lots

Name	M.	ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		According to	Operating Time		
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface		Day	Special	Night
				(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)			(min)	(min)	(min)

Roads

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface			Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type			Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)			(%)	(dB)	(m)	(m)

Crossing

Name	M.	ID	Active			Height	Coordinates		
			Day	Evening	Night	Begin	X	Y	Z
						(m)	(m)	(m)	(m)

Receiver Points

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Even	Night	Day	Even	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
POR1a			67.0	67.0	67.0	75.0	75.0	0.0				1.50	r	705168.93	5159045.30	1.50
POR1b			62.8	62.8	62.8	75.0	75.0	75.0				1.50	r	705173.10	5159015.96	1.50
POR2a			67.7	67.7	67.7	75.0	75.0	0.0				1.50	r	705181.52	5159048.05	1.50
POR2b			67.6	67.6	67.6	75.0	75.0	75.0				4.50	r	705185.68	5159017.96	4.50
POR3a			67.5	67.5	67.5	75.0	75.0	0.0				1.50	r	705209.50	5159048.19	1.50
POR3b			67.5	67.5	67.5	75.0	75.0	75.0				4.50	r	705212.11	5159018.12	4.50
POR4a			69.5	69.5	69.5	75.0	75.0	0.0				1.50	r	705239.40	5159085.35	1.50
POR4b			69.6	69.6	69.6	75.0	75.0	75.0				4.50	r	705244.83	5159055.78	4.50
POR5a			62.1	62.1	62.1	75.0	75.0	0.0				1.50	r	705287.49	5159094.29	1.50
POR5b			67.4	67.4	67.4	75.0	75.0	75.0				4.50	r	705292.08	5159064.10	4.50
POR6a			45.5	45.5	45.5	75.0	75.0	0.0				1.50	r	704532.30	5158989.41	1.50
POR6b			47.7	47.7	47.7	75.0	75.0	75.0				4.50	r	704502.48	5158986.68	4.50
POR7a			51.0	51.0	51.0	75.0	75.0	0.0				1.50	r	705470.68	5159135.16	1.50
POR7b			54.6	54.6	54.6	75.0	75.0	75.0				4.50	r	705491.85	5159138.32	4.50

Designated Land Use

Name	M.	ID	Type	Persons
				(1/km²)

Obstacles

Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height			
			left	right		horz.	vert.	Begin		End	
					(m)	(m)	(m)	(m)		(m)	
			0.21	0.21				2.00	r		
	-		0.21	0.21				2.00	r		

Buildings

Name	M.	ID	RB	Residents	Absorption	Height	
						Begin	
						(m)	
				0	0.21	6.70	r
				0	0.21	5.00	r

Foilage

Name	M.	ID	Height
			(m)

Built-Up Area

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometry Data

Geometry Line Sources

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)

Geometry Area Sources

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)

Geometry Parkking Lots

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)

Geometry Roads

Name	Height				Coordinates				Dist	LSlope
	Begin		End		x	y	z	Ground	(m)	(%)
	(m)		(m)		(m)	(m)	(m)	(m)		

Geometry Railway Tracks

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(m)		(m)		(m)	(m)	(m)	(m)

Geometry Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height				Coordinates			
			left	right		horz.	vert.	Begin		End		x	y	z	Ground
					(m)	(m)	(m)	(m)		(m)		(m)	(m)	(m)	(m)
			0.21	0.21				2.00	r			705228.39	5159213.53	2.00	0.00
												705229.93	5159182.26	2.00	0.00
												705227.71	5159182.03	2.00	0.00
												705234.23	5159111.26	2.00	0.00
												705320.57	5159115.96	2.00	0.00
												705323.79	5159112.82	2.00	0.00
												705331.35	5159027.61	2.00	0.00
												705337.66	5159023.73	2.00	0.00
												705339.55	5158998.98	2.00	0.00
	-		0.21	0.21				2.00	r			705152.24	5159038.31	2.00	0.00
												705149.82	5159065.73	2.00	0.00
												705235.08	5159070.77	2.00	0.00
												705231.77	5159107.54	2.00	0.00

Geometry Buildings

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(m)		(m)	(m)	(m)	(m)
				0	0.21	6.70	r	705087.15	5159116.27	6.70	0.00
								705100.37	5159117.05	6.70	0.00
								705098.23	5159153.61	6.70	0.00
								705085.01	5159152.83	6.70	0.00
				0	0.21	5.00	r	705389.84	5159161.20	5.00	0.00
								705369.58	5159160.58	5.00	0.00
								705370.50	5159130.31	5.00	0.00
								705390.76	5159130.92	5.00	0.00

Geometry Contour Lines

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)

Geometry Lines of Fault

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (m)	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	60.00
Reference Time Night (min)	60.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - 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	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.00
Wind Speed for Dir. (m/s)	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03)	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receiver
Name: POR4a
ID:
X: 705239.40
Y: 5159085.35
Z: 1.50

Point Source, ISO 9613, Name: "12", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705196.55	5159151.40	1.20	0	500	119.0	119.0	0.0	0.0	48.9	0.2	0.4	0.0	0.0	0.0	0.0	-0.0	69.5	69.5

Receiver
Name: POR4b
ID:
X: 705244.83
Y: 5159055.78
Z: 4.50

Point Source, ISO 9613, Name: "12", ID: "-"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	705196.55	5159151.40	1.20	0	500	119.0	119.0	0.0	0.0	51.6	0.2	-2.4	0.0	0.0	0.0	0.0	-0.0	69.6	69.6

Appendix C

Plans & Drawings

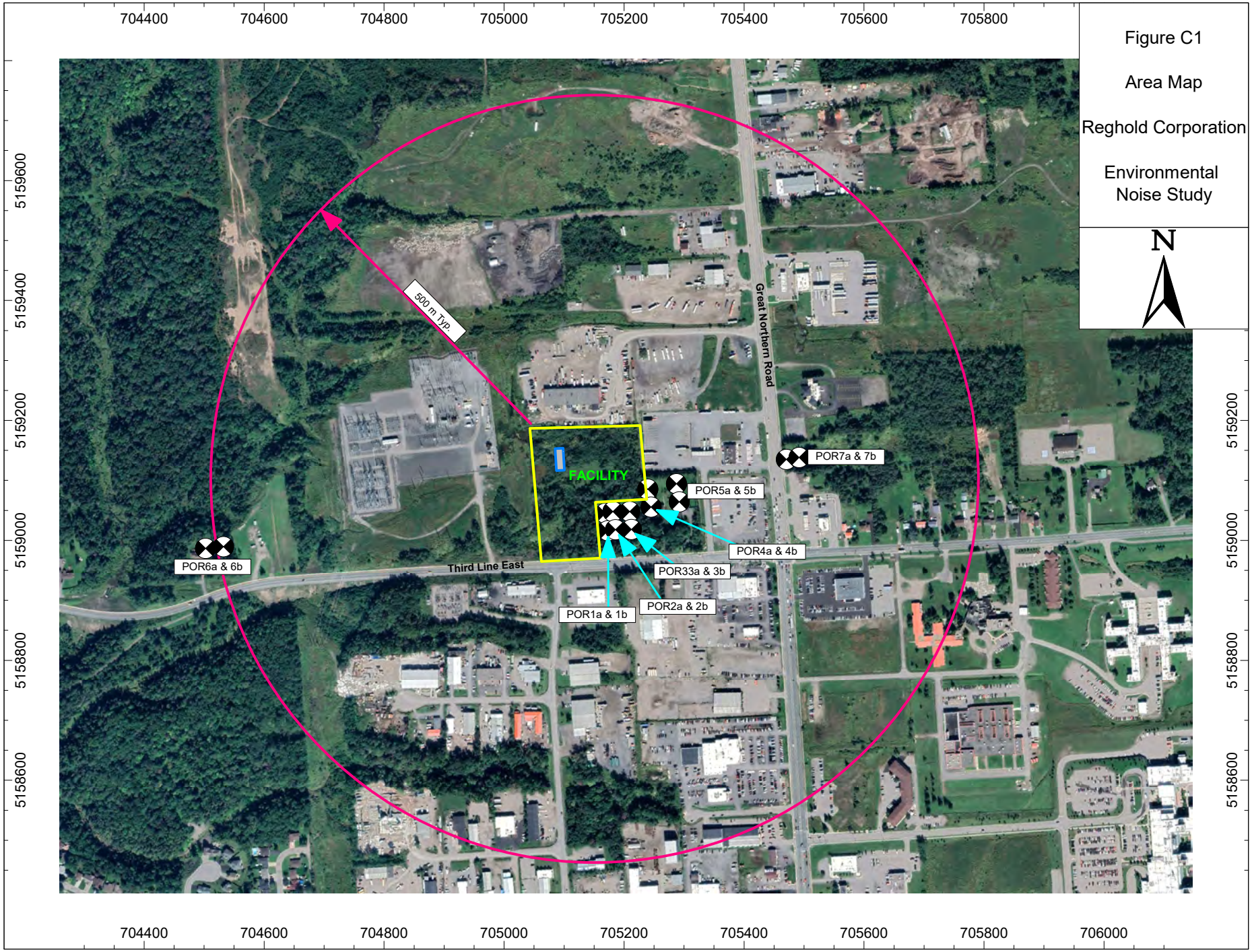
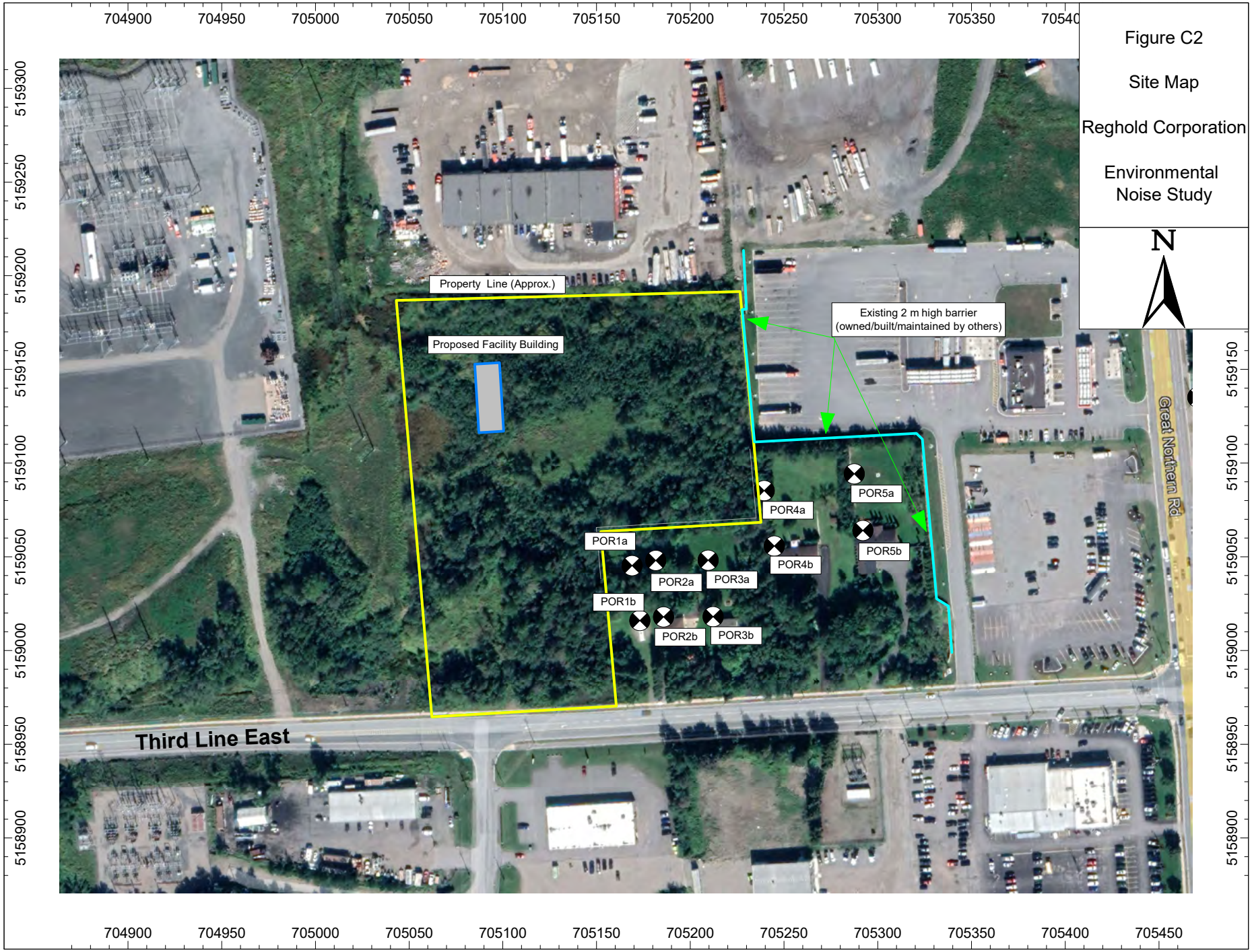


Figure C1

Area Map

Reghold Corporation

Environmental Noise Study


Figure C2
Site Map
Reghold Corporation
Environmental
Noise Study
N
Property Line (Approx.)
Proposed Facility Building
Existing 2 m high barrier
(owned/built/maintained by others)
POR1a
POR1b
POR2a
POR2b
POR3a
POR3b
POR4a
POR4b
POR5a
POR5b
Third Line East
Great Northern Rd.
704900
704950
705000
705050
705100
705150
705200
705250
705300
705350
705400
705450
5159300
5159250
5159200
5159150
5159100
5159050
5159000
5158950
5158900



(M2) ZONING REQUIREMENTS:

FRONTAGE	= 30m
FRONT YARD SETBACK	= 15m
INTERIOR SIDE YARD	= 5m ONE SIDE 10m OTHER SIDE
REAR YARD SETBACK	= 8m

No.	DATE	BY	ISSUES / REVISIONS
0	JAN. 30, 2023	JML	ISSUED FOR RE-ZONING APPLICATION

TULLOCH

DRAWING:
CONCEPTUAL SITE PLAN
(RE-ZONING SKETCH)

PROJECT:
534 THIRD LINE WEST
TRAILER STORAGE AND MECH. SHOP

DRAWN BY:	CHECKED BY:	PROJECT No. :
KTN	JML	230608
DESIGNED BY:	APPROVED BY:	DRAWING No. / REVISION No.
KTN	JML	SK1 / 0
SCALE:	DATE:	
1:1250	JAN. 30, 2023	

P:\2023\230608 Third Line East – Site Development\Civil\04 Drawings\230608 Site Plan 23-01-30.dwg

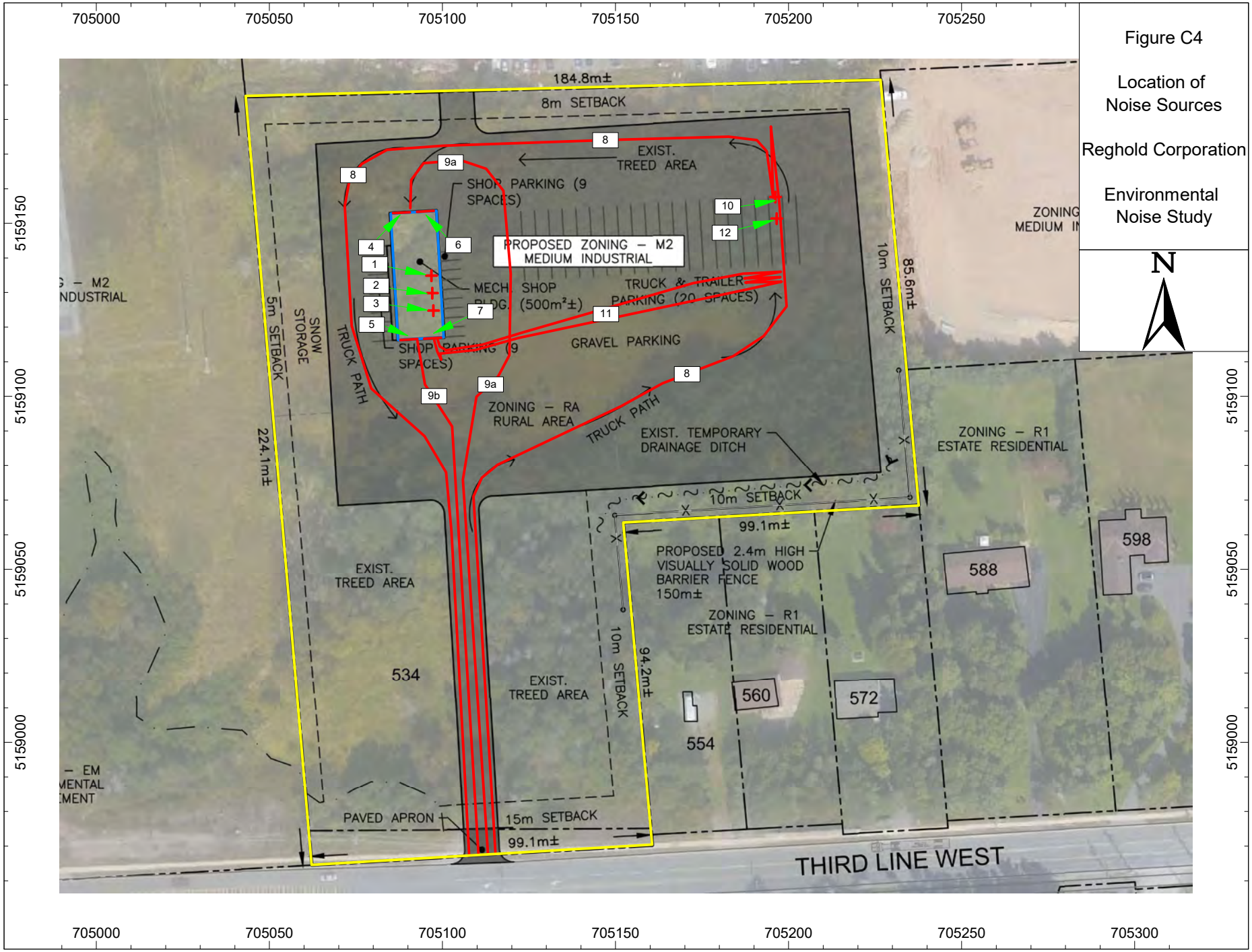


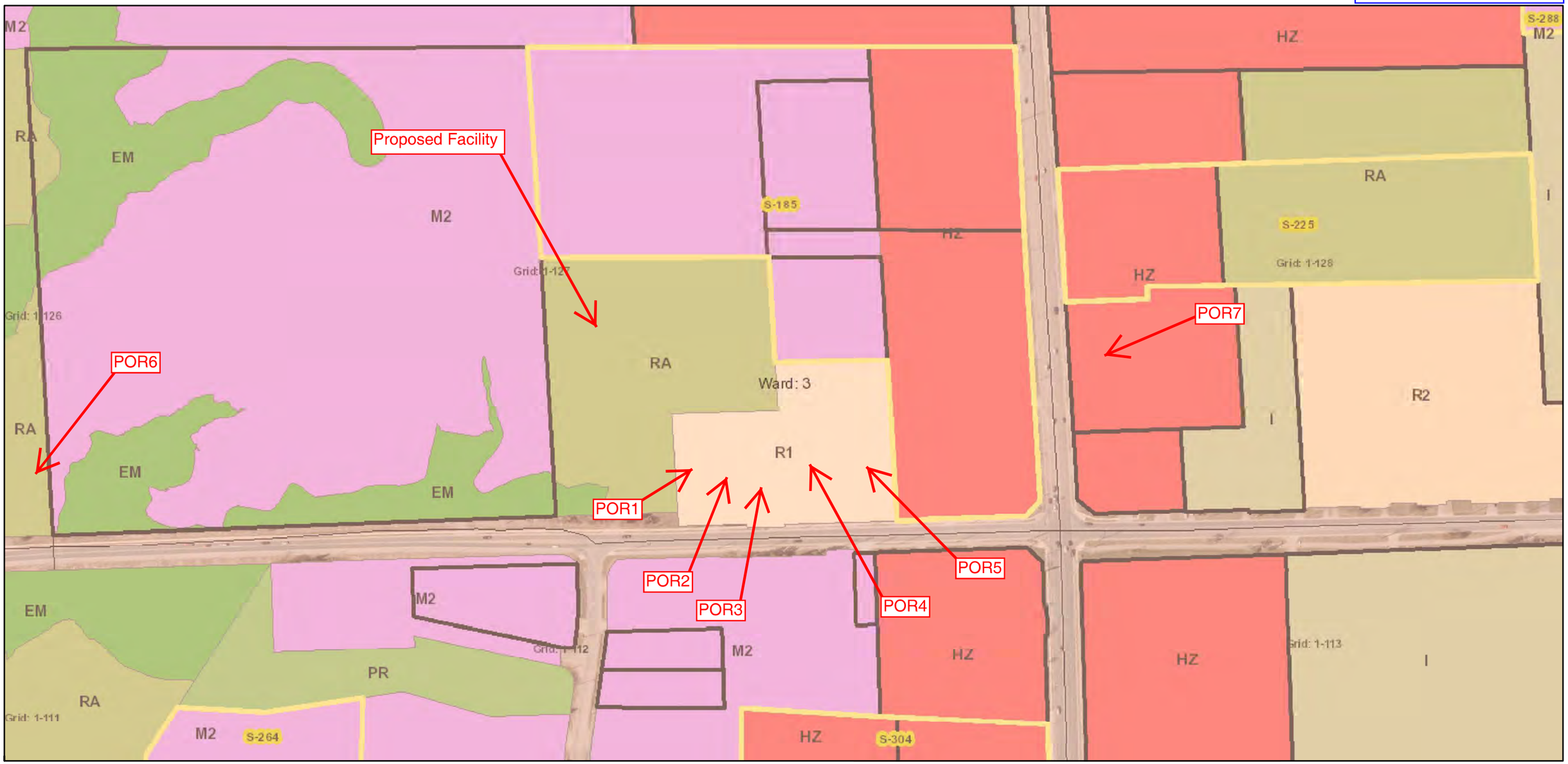
Figure C4

Location of
Noise Sources

Reghold Corporation

Environmental
Noise Study

SooMaps ArcGIS Web Map



7/7/2022, 3:17:38 PM

Municipal Wards
- 1
- 2
- 3
- 4
- 5
- Zoning Grid

- BYLAW_2005_151
- BYLAW_2005_NOTINPLANAREA
- BYLAW_2005_150DC

BYLAW_2005_150
- C1 - Traditional Commercial Zone
- C2 - Central Commercial Zone
- CT2 - Commercial Transitional Zone
- C3 - Riverfront Zone
- C4 - General Commercial Zone
- C5 - Shopping Centre Zone
- HZ - Highway Zone
- M1 - Light Industrial Zone
- M2 - Medium Industrial Zone
- M3 - Heavy Industrial Zone
- R1 - Estate Residential Zone
- R2 - Single Detached Residential Zone
- R3 - Low Density Residential Zone
- R4 - Medium Density Residential Zone
- R5 - High Density Residential Zone
- R6 - Mobile Home Residential Zone
- I - Institutional Zone
- RA - Rural Area Zone; RAhp
- EM - Environmental Management Zone
- PR - Parks and Recreation Zone
- RP - Rural Precambrian Uplands Zone
- REX - Rural Aggregate Extraction Zone
- AIR - Airport Zone
- Named Use - Commercial Dock

Orthophotography 2016
- Red: Band_1
- Green: Band_2
- Blue: Band_3

1:4,514

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

City of Sault Ste. Marie, LTC, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA, USDA, AAFC, NRCan

ArcGIS Web AppBuilder
City of Sault Ste. Marie, LTC, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA, USDA, AAFC, NRCan |



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Principal & Co-Founder
647-381-3080
scullion@napsci.io

The Corporation of the City of Sault Ste. Marie

Public Works & Engineering Services

Dan Perri, P. Eng.
Municipal Services & Design Engineer

August 1, 2023

MEMO TO: Peter Tonazzo, RPP
Director of Planning

RE: A-8-23-Z
534 Third Line East
Reghold Corporation

The Engineering Services Division has reviewed the above noted application and provides the following comments:

- We recommend that this property be subject to site plan control in order to address servicing, drainage, and access requirements.

Dan Perri, P.Eng.
Municipal Services & Design Engineer
Public Works and Engineering Services
705.759.5329
d.perri@cityssm.on.ca

DP/

c. Susan Hamilton Beach P.Eng., Public Works
Carl Rumiel, P.Eng., Engineering Services

Nicholas Cicchini

From: Gerard Lavoie <glavoie@ssmrca.ca>
Sent: July 27, 2023 2:29 PM
To: Stephanie Perri
Cc: Marlene McKinnon
Subject: SSMRCA Comments: A-8-23-Z 534 Third Line East

Follow Up Flag: Follow up
Flag Status: Flagged

This email originated outside of the Corporation of the City of Sault Ste. Marie.
Do not open attachments or click links unless you verify the sender and know the content is safe.

Sault Ste Marie Region Conservation Authority
1100 Fifth Line East
Sault Ste. Marie, ON P6A 6J8
705 946 8530

July 27th, 2023

Peter Tonazzo
Planning Director
City of Sault Ste. Marie
P.O. Box 580
Sault Ste. Marie, ON P6A 5N1

Sault Ste. Marie Conservation Authority (SSMRCA) Comments:

RE: Application # A-8-23-Z
Reghold Corporation
3-987 Great Northern Road
Sault Ste. Marie

The subject property (as circulated) is located within an area under the jurisdiction of the SSMRCA regarding Ont. Reg.176/06 - Development, Interference with Wetlands and Alterations to Shoreline and Watercourses. Any development on the subject property will require a site plan review and may require a permit from SSMRCA.

DVLP_GIS_Map_534ThirdLineEast_20230726.pdf

SSMRCA does not object to the rezoning application as circulated.

Kind regards,

Gerard Lavoie
(he/him)
GIS Technician
Sault Ste. Marie Region Conservation Authority

1100 Fifth Line East
Sault Ste. Marie ON P6A 6J8
GLavoie@ssmrca.ca
www.ssmrca.ca
Phone 705-946-8530
Cell 705 989 6483





Application A-8-23-Z: Aerial Image

SAULT STE.MARIE

Planning and Enterprise Services

Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

Subject Property: 534 Third Line East

Parcel Fabric

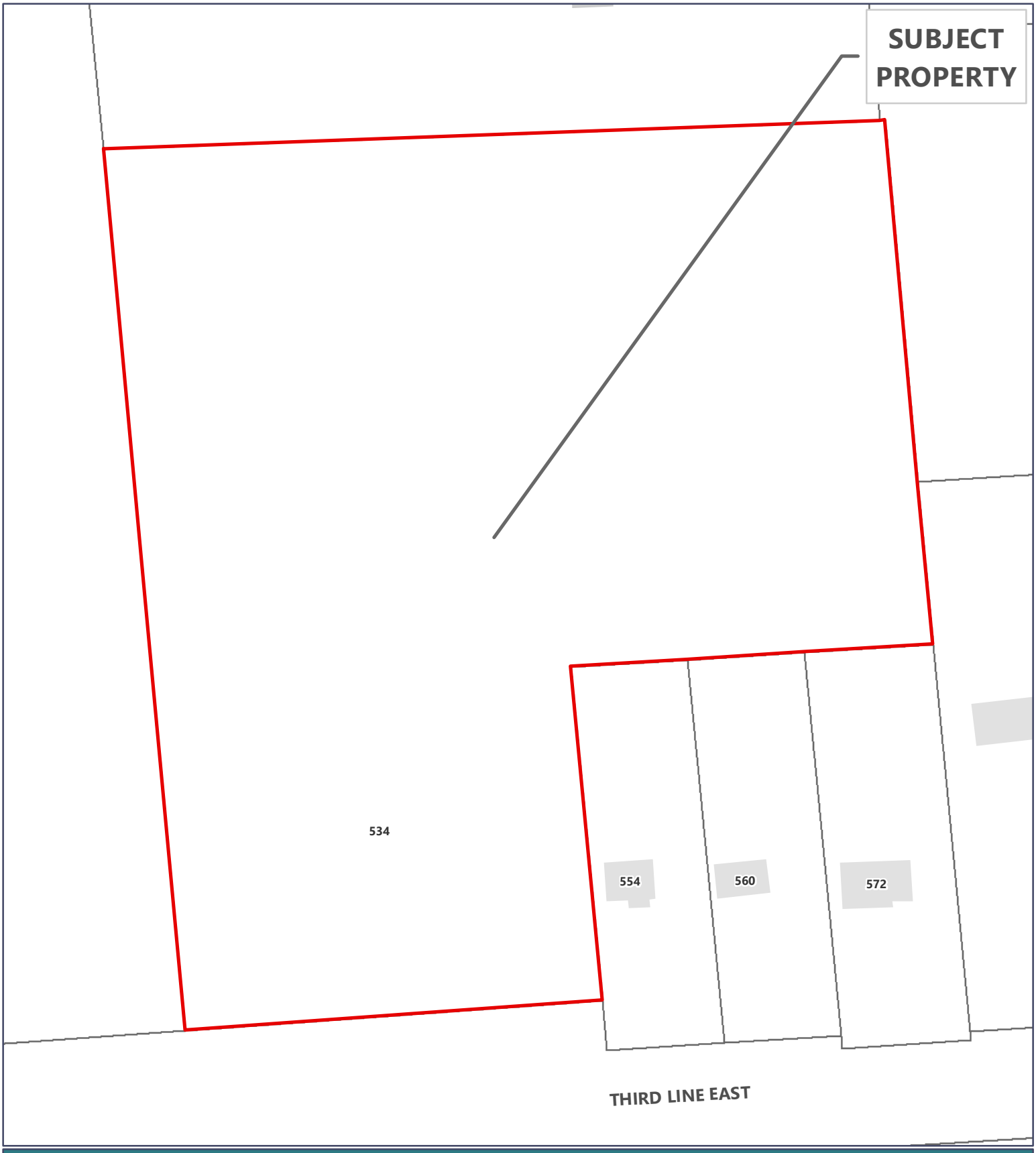
Property Information

Civic Address: 534 Third Line East
Roll No.: 030085079000000
Map No.: 112/1-127
Date Created: July 25, 2023

0 10 20 m
1:1,100

This map is for general reference only
Orthophoto: 2022

N



Application A-8-23-Z: Subject Property

Property Information

Civic Address: 534 Third Line East
Roll No.: 030085079000000
Map No.: 112/1-127
Date Created: July 25, 2023

SAULT STE.MARIE

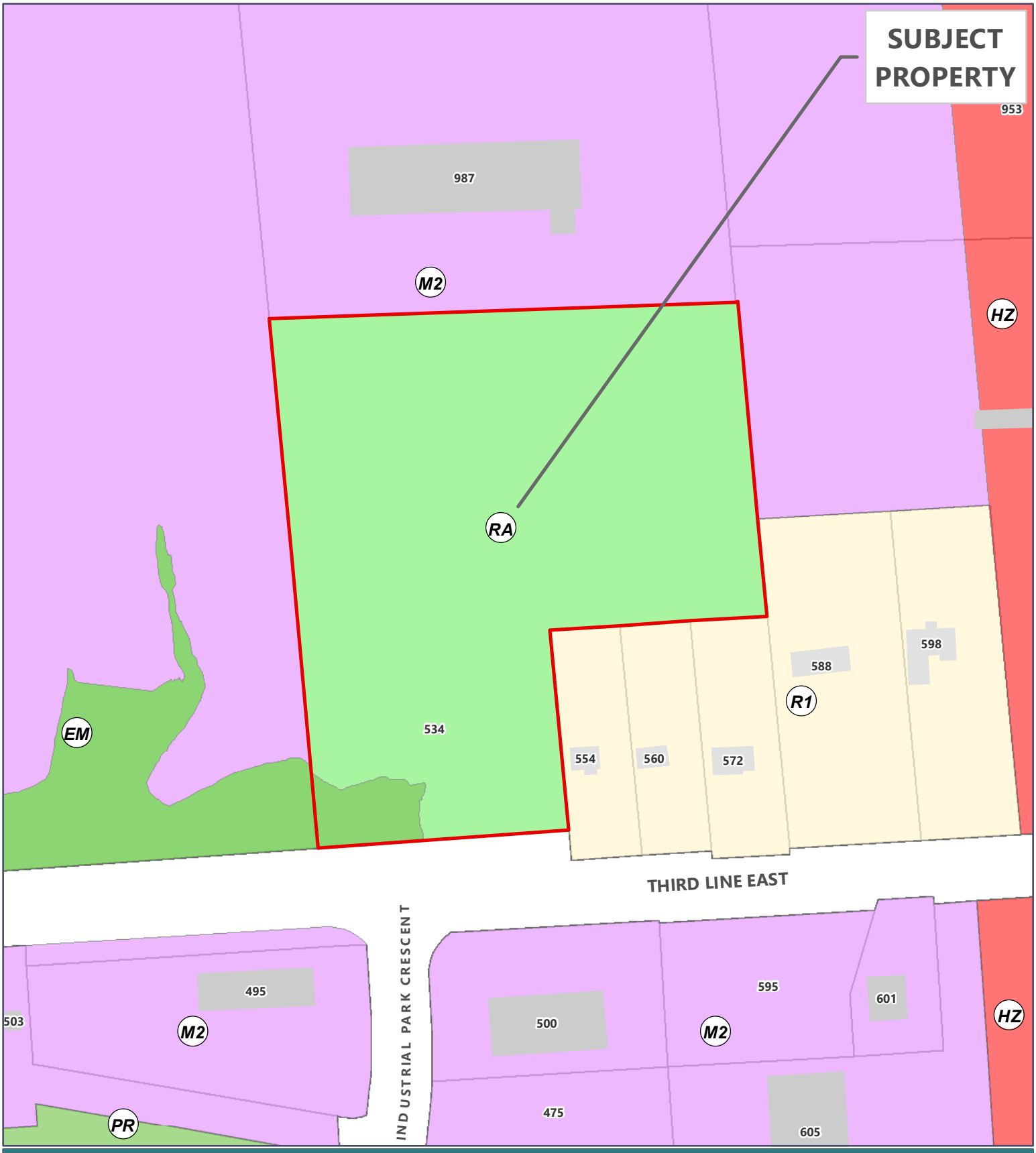
Planning and Enterprise Services

Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

Subject Property: 534 Third Line East
Parcel Fabric

0 10 20 m
1:1,200
This map is for general reference only.

N



Application A-8-23-Z: Existing Zoning

Property Information

Civic Address: 534 Third Line East
Roll No.: 030085079000000
Map No.: 112/1-127
Date Created: July 25, 2023

SAULT STE.MARIE

Planning and Enterprise Services

Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

Subject Property: 534 Third Line East
Parcel Fabric

C1 - Traditional Commercial Zone
C2 - Central Commercial Zone
CT2 - Commercial Transitional Zone
C3 - Riverfront Zone; C3hp
C4 - General Commercial Zone; C4hp
C5 - Shopping Centre Zone
HZ - Highway Zone
M1 - Light Industrial Zone
M2 - Medium Industrial Zone; M2hp
M3 - Heavy Industrial Zone
R1 - Estate Residential Zone
R2 - Low Density Residential Zone; R2hp
R3 - Low Density Residential Zone
R4 - Medium Density Residential Zone
R5 - High Density Residential Zone
R6 - Mobile Home Residential Zone
I - Institutional Zone
EM - Environmental Management Zone
PR - Parks and Recreation Zone
RA - Rural Area Zone
RP - Rural Precambrian Uplands Zone
REX - Rural Aggregate Extraction Zone
AIR - Airport Zone
Named Use - Commercial Dock

0 20 40 m
1:2,000
This map is for general reference only.

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The Corporation of the City of Sault Ste. Marie
99 Foster Drive, Sault Ste. Marie, Ontario P6A 5X6
saultstemarie.ca | 705.759.2500 | info@cityssm.on.ca

NOTICE OF APPLICATION & PUBLIC MEETING

534 Third Line East

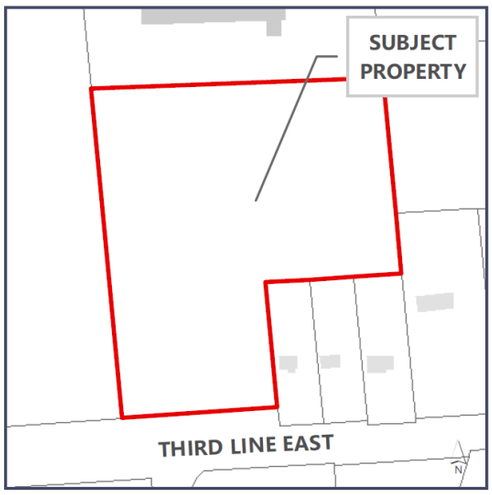
Application No.: A-8-23-Z
Applicant: Reghold Corporation

Date: Monday, August 28, 2023
Time: 5:00 PM

Location: City of Sault Ste. Marie
Civic Centre, Council Chambers
99 Foster Drive

PURPOSE

The applicant, Reghold Corporation, has submitted an application to rezone the subject property to facilitate a Trucking Yard, which will provide maintenance and equipment holding and transfer services.



PROPOSED CHANGE

Rezone the subject property from Rural Area (RA) Zone to Medium Industrial (M2) Zone.

HAVE YOUR SAY

Input on the proposed Zoning By-Law and Official Plan amendment is welcome and encouraged. You can provide input by making a written submission or by making a public presentation.

TAKE NOTICE THAT the Council of The Corporation of the City of Sault Ste. Marie will hold a Public Meeting on Monday, August 28 at 5:00 p.m. to consider a Zoning By-law Amendment (under sections 34 of the Planning Act, R.S.O 1990, c. P13, as amended).This meeting will be broadcast by Shaw Cable and may be viewed on Shaw Cable's Community Channel, Sootoday.com and on the City's YouTube Channel https://www.youtube.com/saultstemarieca

Any person wishing to present at the public meeting may do so electronically or in person. Electronic participants must contact the City Clerk at cityclerk@cityssm.on.ca or 705-759-5388 to register as a presenter. Registered presenters will be provided with instructions as to how to join the meeting in advance Any written submissions received in advance of the meeting will be included with Council's Agenda.

MORE INFORMATION

The application may be reviewed upon request. The report of the Planning Division will be available on Friday, August 25, 2023 as part of City Council's Agenda. Please contact Nicholas Cicchini at 705.759.5375 or n.cicchini@cityssm.on.ca to request a digital copy. Please refer to the application file number.

WRITTEN SUBMISSION

To provide input in writing, or request notice if the proposed application is approved, please submit a letter to Nicholas Cicchini 99 Foster Drive, Sault Ste. Marie, ON P6A 5X6, or e-mail to n.cicchini@cityssm.on.ca with your name, address and application file number on or before **Monday, August 28, 2020**.

If you wish to be notified of the Council of the City of Sault Ste. Marie decision to adopt or refuse the approval of an application, you must make a written request to the Planning Division at the address noted above.

LEGAL NOTICE CONCERNING YOUR RIGHT TO APPEAL

If a person or public body does not make oral submission at a public meeting or make written submission to the City of Sault Ste. Marie before the By-law is passed, the person or public body may not be entitled to appeal the decision of the Council of the City of Sault Ste. Marie to the Ontario Land Tribunal.

If a person or public body does not make oral submissions at a public meeting, or make written submissions to the City of Sault Ste. Marie before the By-law is passed, the person or public body may not be added as a party to the hearing of an appeal before the Ontario Land Tribunal unless, in the opinion of the Tribunal, there are reasonable grounds to add the person or public body as a party.



No.	DATE	BY	ISSUES / REVISIONS
1	JUNE 13, 2023	KTN	REVISED PER CITY COMMENTS
0	JAN. 30, 2023	JML	ISSUED FOR RE-ZONING APPLICATION

TULLOCH

DRAWING:
CONCEPTUAL SITE PLAN
(RE-ZONING SKETCH)

PROJECT:
534 THIRD LINE WEST
TRAILER STORAGE AND MECH. SHOP

DRAWN BY:	CHECKED BY:	PROJECT No. :
KTN	JML	230608
DESIGNED BY:	APPROVED BY:	DRAWING No. / REVISION No.
KTN	JML	SK1 / 1
SCALE:	DATE:	
1:1250	JAN. 30, 2023	

The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Salvatore Marchese, Junior Planner
DEPARTMENT:	Community Development and Enterprise Services
RE:	A-9-23-Z 207 Old Garden River Road (Daniel Fremlin Holdings)

PURPOSE

The applicant Daniel Fremlin Holdings (C/O Daniel Fremlin) wishes to rezone a portion of the subject property shown as, 'area to be rezoned' on the map attached, to permit 4 semi-detached residential units to be constructed at 207 Old Garden River Road.

PROPOSED CHANGE

The applicant is seeking Council's approval to rezone the northwest portion of the subject property defined as 72.8 metres of frontage along Old Garden River Road and a depth of 36.5 metres and shown as 'area to be rezoned', from Single Detached Residential Zone (R2) to Low Density Residential Zone (R3.S) with a Special Exception, subject to the following special provision:

1. Reduce the required parking ratio of 1.25 to 1 space per dwelling unit.

Subject Property:

- Location: On the south side of Old Garden River Road, approximately 177 metres (580') northeast of Second Line East.
- Approximate Size:
    - Subject Property - An irregular lot with frontage of approximately 117 (580') metres and a depth of 36.5 metres (119.75'). It is .77 hectares (1.90 acres) in size.
    - Portion of the Subject Property to be rezoned – Northwestern portion - 72.8m (239.85') frontage by 36.5 (119.75') metres depth, totalling approximately .27 hectares (.66 acres).
- Present Use: Vacant land.
- Owner: Daniel Fremlin Holdings.

BACKGROUND

In June 2023 a Consent application was approved that created four additional lots in the 'area to be rezoned' with an approximate size of 18.2 metres by 36.5 metres each.

ANALYSIS

Conformity with Official Plan

The property is designated as Residential in Schedule C (Land Use Map) of the Official Plan. The following land use policies support this application:

Housing Policies

HO.1: Opportunities for a full range of housing types shall be provided to meet the present and expected needs of the community.

HO.2: Innovative and alternative residential development standards supporting affordable housing and compact urban form shall be encouraged.

Residential Policies

R.1: A mixture of housing types and diversity of ownership and tenure forms shall be encouraged in new development

R.4: Small scale intensification may be permitted in all residential areas unless adequate supporting infrastructure is not available or significant physical constraints exist.

R.5: Small scale residential intensification may include, but not be limited to, rooming, boarding and lodging houses, apartments in houses, infill development and redevelopment

Sault Ste. Marie is projected to need 3,115 additional housing units by 2036. This development will provide four semi-detached residential dwellings (8 units) towards this goal by employing a compact urban form on an underutilised piece of land that will offer options beyond that of single family dwellings.

The development represents a small scale intensification as per R.5 and there is adequate supporting infrastructure and no significant physical constraints exist.

Archaeological Potential

Schedule 3 (Archaeological Resources) of the Official Plan identifies archaeological potential on the property. Extensive soil disturbance has occurred in the area. Additionally, a review of historical aerial photographs indicates the site being actively tilled in the 1930s negating the likelihood for archaeological

potential. As per Archaeological Resources Policy 2, an archaeological assessment is not required where past disturbance has occurred in the area.

The proposal is consistent with the Official Plan.

Conformity with Provincial Policy Statement 2020 (PPS)

The following sections of the PPS support this application:

Managing and Directing Land Use to Achieve Efficient and Resilient Development and Land Use Patterns

1.1.1 Healthy, liveable and safe communities are sustained by:

a) Promoting efficient development and land use patterns which sustain the financial well-being of the Province and municipalities over the long term;

Housing

1.4.3 Planning authorities shall provide for an appropriate range and mix of housing options and densities to meet projected market-based and affordable housing needs of current and future residents of the regional market area by:

c) Directing the development of new housing towards locations where appropriate levels of infrastructure and public service facilities are or will be available to support current or will be available to support current and projected needs;

d) Promoting densities for new housing which efficiently use land, resources, infrastructure and public service facilities, and support the use of active transportation and transit in areas where it exists or is to be developed.

This proposal is consistent with the Provincial Policy Statement.

Conformity with Growth Plan for Northern Ontario 2011

The following section of the Growth Plan supports this application:

3.4.3 Municipalities are encouraged to support and promote healthy living by providing for communities with a range and mix of housing types.

This proposal is consistent with the Growth Plan for Northern Ontario.

COMMENTS

The applicant has indicated they wish to build 4 semi-detached dwellings upon the subject land, and request to reduce the required parking from 1.25 spaces to 1 space per dwelling.

The surrounding area is zoned with a mix of R2 and R3 properties that will be complemented by this rezoning. HO.1 of the Official Plan speaks to the need to offer varying housing types for the need of the community. This project will bring additional dwelling units to an area in close proximity to services that include retail and grocery.

This development represents an infill development on underutilized lands that will provide additional housing units. The reduction in parking will still provide residents with space to locate their vehicle on site. The reduction has a net effect of removing two spaces between the four semi-detached dwellings (8 units) which can be offset with temporary parking on the driveway in the required front yard for visitors. Additionally, services are located nearby that will reduce the need for a vehicle to access.

No neighbourhood impacts are anticipated from the approval of this application.

CONSULTATION

Public notices were mailed to all neighbouring property owners within 120 metres (400') of the subject property on Friday August 4, 2023. The notice that was mailed to property owners is attached to this report. The notice was also advertised on the City website and in the Sault Star on Saturday August 5, 2023.

Public Comments

During the official public notice period, Planning staff received comments from one member of the public regarding their concern with the introduction of semi-detached units to the neighbourhood to be out of character for the area, and their desire to see the Great Northern Road and Second Line East Environmental Assessment finished before permitting intensification of the area. Additionally, they raised a concern regarding potential parking on the shoulder of Old Garden River Road.

• The subject property is located on a well serviced urban collector road near an arterial street, and the proposal represents an example of gentle density that will not significantly impact the character of the area and is supported by the Official Plan.

• The Engineering (Traffic) Division anticipates minimal traffic impacts from this proposal, and notes that the surrounding roads can accommodate the minor increase in traffic. This will not preclude any recommendations that may arise from the in progress Great Northern Road and Second Line East Environmental Assessment.

• Each lot will have parking provided for the residents of the subject site. The driveway will permit for temporary visitor parking in the required front yard of the property.

Application Circulation

As part of the application review, this proposal was circulated to City divisions and external agencies for detailed technical review and comment. The following departments/agencies commented on this application:

Public Works: supports this application and provides comment that servicing and road restoration shall be to the satisfaction of the Deputy Chief Administrative Officer of Public Works & Engineering Services or their designate.

Engineering: has reviewed the application and provided a number of technical requirements which may be found attached to this document. Of note:

- A lot grading and drainage plan must be completed by a Lot Grading Professional, to ensure that drainage is dealt with appropriately. Lot Grading Professionals must be a Professional Engineer (civil), Architect, or Ontario Land Surveyor, experienced in lot grading design. A drainage agreement may be required.
- The applicant will be required to install the service for each lot and then re-pave the portion of the road that was excavated during the installation of services. Individual patches for each service connection will not be acceptable.

FINANCIAL IMPLICATIONS
Approval of this application will not result in any incremental changes to municipal finances.

STRATEGIC PLAN / POLICY IMPACT
Approval of this application is not linked to any policies within the Corporate Strategic Plan. There are no significant climate change impacts anticipated from this application.

SUMMARY
The applicant has submitted an application to change the zoning from Single Detached Residential (R2) to Low Density Residential (R3) on a portion of the subject property that will allow four semi-detached residential dwellings (8 units) to be built. The proposal represents small scale intensification on an underutilized lot with all the necessary municipal infrastructure already available.

RECOMMENDATION
It is therefore recommended that Council take the following action:

Resolved that the report of the Junior Planner dated August 28, 2023 concerning rezoning application A-9-23-Z be received and that Council approve the application as follows:

Rezone the northwest portion of the subject property, located at 207 Old Garden River Road, defined as 72.8 metres of frontage along Old Garden River Road and a depth of 36.5 metres, and shown on the attached map from Single Detached

Residential Zone (R2) to Low Density Residential Zone (R3.S) with a Special Exception to reduce the required parking ratio of 1.25 to 1 space per dwelling unit.

And that the Legal Department be requested to prepare the necessary by-law(s) to effect the same.

Respectfully submitted,

Salvatore Marchese
Junior Planner
705.759.5445
s.marchese@cityssm.on.ca

Lot 1 = box120

Lot 2 = box120

Lot 3 = box120

Lot 4 = box120

Salvatore Marchese

From: Amanda Cipriano
Sent: Tuesday, August 1, 2023 10:23 AM
To: Stephanie Perri
Cc: Susan Hamilton Beach; Maggie McAuley; Dan Perri
Subject: RE: Request for Comment - Rezoning Applications

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning,

PW has no comments or concerns for Application # A-8-23-Z (534 Third Line East).

As for Application # A-9-23-Z (207 Old Garden River Road):
PW supports this application and provides comment that servicing and road restoration shall be to the satisfaction of the DCAO of PWES or their designate.

Thanks,
Amanda

From: Stephanie Perri <s.perri@cityssm.on.ca>
Sent: Wednesday, July 26, 2023 3:19 PM
To: Maggie McAuley <m.mcauley@cityssm.on.ca>; Dan Perri <d.perri@cityssm.on.ca>; Carl Rumiel <c.rumiel@cityssm.on.ca>; Freddie Pozzebon <f.pozzebon@cityssm.on.ca>; Francois Couture <f.couture@cityssm.on.ca>; Karen Fields <k.fields@cityssm.on.ca>; Tom Vair <t.vair@cityssm.on.ca>; Virginia McLeod <v.mcleod@cityssm.on.ca>; Rick Van Staveren <r.vanstaveren@cityssm.on.ca>; Naomi Thibault <n.thibault@cityssm.on.ca>; eng dept <eng-dept@ssmpuc.com>; Susan Hamilton Beach <s.hamiltonbeach@cityssm.on.ca>; SSMRCA <nature@ssmrca.ca>; MSONorth@ontario.ca; 'circulations@wsp.com' <circulations@wsp.com>; 'planninganddevelopment@bell.ca' <planninganddevelopment@bell.ca>; newdevelopment@rci.rogers.com
Cc: Orsalina Naccarato <o.naccarato@cityssm.on.ca>; Amanda Cipriano <a.cipriano@cityssm.on.ca>; Nicholas Cicchini <n.cicchini@cityssm.on.ca>; Salvatore Marchese <s.marchese@cityssm.on.ca>
Subject: Request for Comment - Rezoning Applications

Good afternoon,
I have attached the following rezoning applications for your review/comment:

- A-8-23-Z 534 Third Line East (Planner – Nicholas Cicchini); and
- A-9-23-Z 207 Old Garden River Road (Planner – Salvatore Marchese).

Your comments would be appreciated on or before **Wednesday, August 9, 2023.**

Please advise if you have any questions or require anything further.

Thank you for your assistance.
Stephanie

Stephanie Perri

Administrative Clerk
Planning and Enterprise Services
s.perri@cityssm.on.ca
705-574-1022

CITY OF SAULT STE. MARIE
99 Foster Drive, Sault Ste. Marie, ON P6A 5X6
saultstemarie.ca



The Corporation of the City of Sault Ste. Marie

Public Works & Engineering Services

Dan Perri, P. Eng.
Municipal Services & Design Engineer

August 1, 2023

MEMO TO: Peter Tonazzo, RPP
Director of Planning

RE: A-9-23-Z
207 Old Garden River Road
Daniel Fremlin Holdings

The Engineering Services Division has reviewed the above noted application and provides the following comments:

- The applicant must enter into a Lot Development Agreement with the City for the installation of new services. All costs shall be attributable to the applicant;
- A lot grading and drainage plan must be completed by a Lot Grading Professional, to ensure that drainage is dealt with appropriately. Lot Grading Professionals must be a Professional Engineer (civil), Architect, or Ontario Land Surveyor, experienced in lot grading design. A drainage agreement may be required;
- A Municipal Consent permit is required for any work carried out in the municipal right-of-way;
- The applicant will be required to install the services for each lot and then re-pave the portion of the road that was excavated during the installation of services. Individual patches for each service connection will not be acceptable; and
- No work shall be commenced without the approval of the Director of Engineering or his designate. Any work which requires approvals from the City and the Ministry of the Environment, Conservation and Parks shall not commence until such approvals and agreements are endorsed.

Dan Perri, P.Eng.
Municipal Services & Design Engineer
Public Works and Engineering Services
705.759.5329
d.perri@cityssm.on.ca

DP/

c. Susan Hamilton Beach P.Eng., Public Works
Carl Rumiel, P.Eng., Engineering Services

plan student1 (Cassie Baxter)

Subject: FW: RE Application No. A-9-23-Z
Attachments: image001.jpg

From: Angela Brennan
Sent: Friday, August 11, 2023 5:50 PM
To: Salvatore Marchese <s.marchese@cityssm.on.ca>
Subject: RE: RE Application No. A-9-23-Z

This email originated outside of the Corporation of the City of Sault Ste. Marie.
Do not open attachments or click links unless you verify the sender and know the content is safe.

Thank you so much, Salvatore!

I suppose the only comments for the application I would like to have the Council and appropriate departments consider are the following:

> -I would like to affirm that I had no issues with the original Application by the Developer [Daniel Fremlin Holdings (c/o Daniel Fremlin)] for the Lot Severance Application 816/23-85-(1-95)-33397-R2 being granted for future development of 207 Old Garden River Road into 4 single detached dwellings, with the remaining balance of the property (aka Lot 5, currently woodlot) being retained as-is for future development ("commercial or something…" as Mr. Fremlin casually mentioned as he was addressing the members at the Committee of Adjustment Meeting of July 19th, 2023). While I appreciate the aesthetics of the homes (single detached, semi-detached and townhomes) that I have seen the Developer build in Sault Ste. Marie, I find this Application to have these 4 specific lots facing Old Garden River Road rezoned to accommodate 8 homes (4 semi-detached buildings) entirely out of character for this area. Old Garden River Road, north of Second Line, consists of well-and-fairly-recently-established single detached residential homes, with recently severed lots having been developed to accommodate only a new single detached dwelling built adjacent to (beside or offset/behind) the original single detached home on the lots that they were severed from.
>
> -207 Old Garden River Road abuts the John Roswell Hub Trail. I understand that a Traffic Calming Study for this area north of Second Line is still in the works (incomplete at the time I received this information from Salvatore Marchese, Junior Planner on August 11th, 2023) and granting this rezoning before this report is complete for all City Departments (Planning, Engineering, etc.) and Council to review prior to even minor intensification is, in my view, putting the cart before the horse. Many people use the boulevard lanes as pedestrians, pet-walkers, cyclists, and those utilising mobility scooters. While I understand that parking is allowed along this boulevard for up to 18 hours, except during winter months, it is already difficult to navigate when tradespersons, visitors or residents who have more cars than they can fit into their garage and/or driveway. From 4 homes to 8 this increases the likelihood of more frequent boulevard blocking and is hardly conducive to the public for the enjoyment of a trailway such as the Hub Trail."

That’s about it, thank you. I’m not opposed to development, just when it’s inappropriate for a specific area. Yes please, I do wish to be included in any updates for the Traffic Calming Study and I appreciate the offer to follow up with me as it progresses.

Have a great weekend (or hope you had one if you won’t see this until Monday 😉)!

Kind regards,
A. Brennan

s or that of a committee of Council or a local board.



Application A-9-23-Z: Aerial Image

Property Information

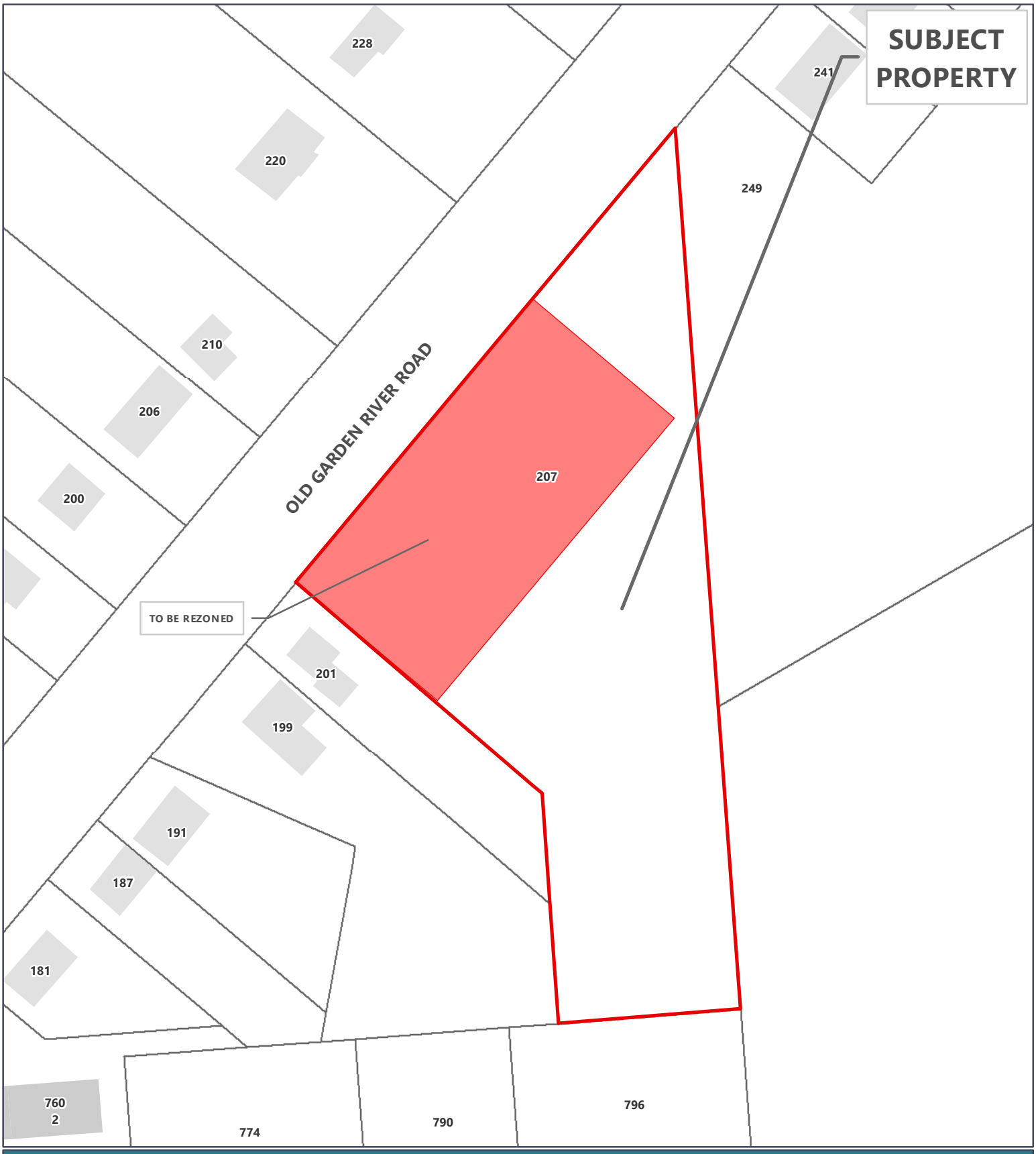
Civic Address: 207 Old Garden River Rd
Roll No.: 030075036000000
Map No.: 85/1-95
Date Created: July 26, 2023

Subject Property: 207 Old Garden River Road
Area to be Rezoned
Parcel Fabric

0 10 20 m
1:1,000
This map is for general reference only.
Orthophoto: 2022

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SAULT STE.MARIE
Planning and Enterprise Services
Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca



Application A-9-23-Z: Subject Property

Planning and Enterprise Services

Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

Legal Department Reference

Schedule "A"

- Subject Property: 207 Old Garden River Road
- Area to be Rezoned
- Parcel Fabric

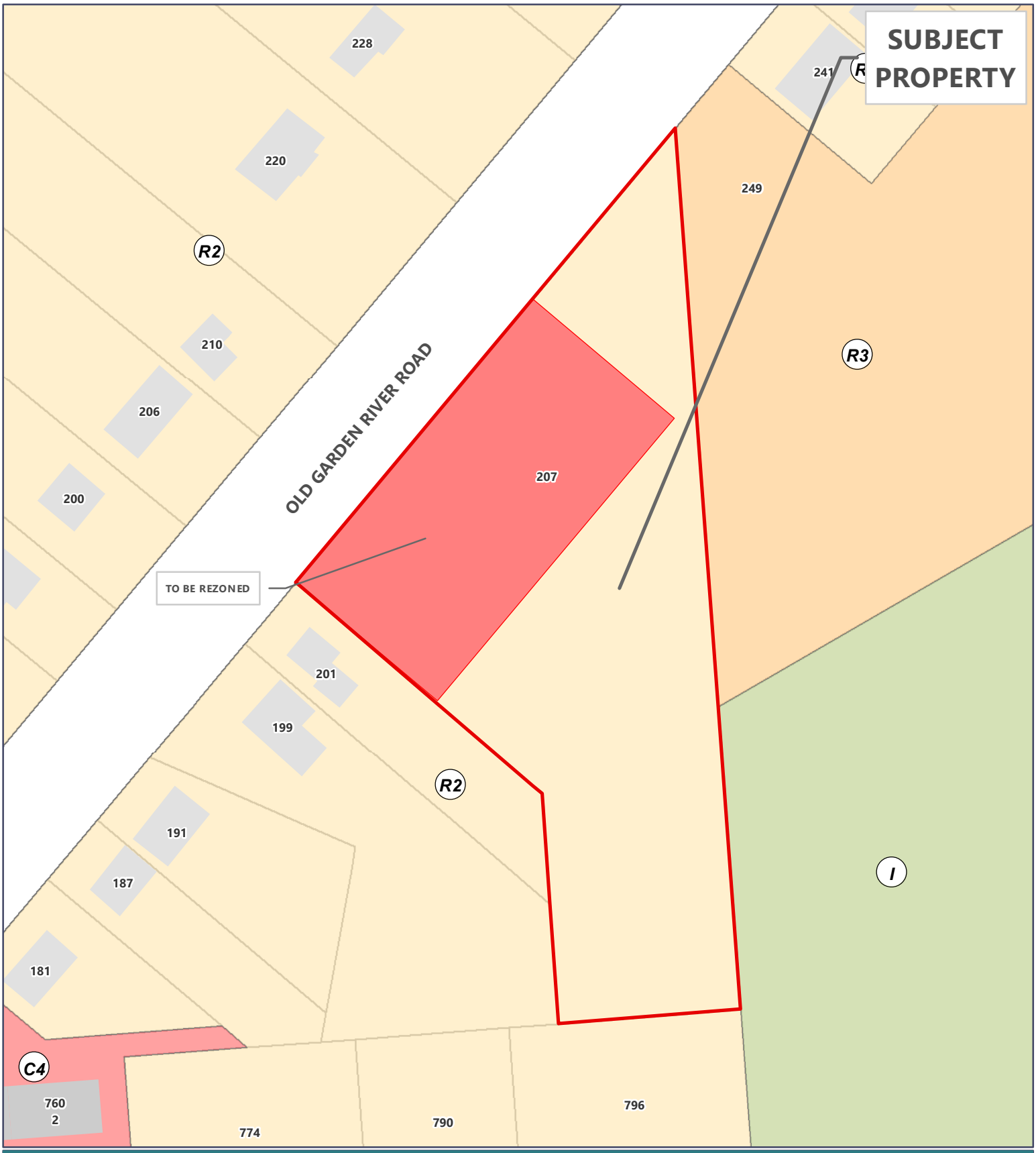
Property Information

Civic Address: 207 Old Garden River Rd
Roll No.: 030075036000000
Map No.: 85/1-95
Date Created: July 26, 2023

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This map is for general reference only.

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Application A-9-23-Z: Existing Zoning

SAULT STE.MARIE

Planning and Enterprise Services

Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

- Subject Property: 207 Old Garden River Road
- Area to be Rezoned
- Parcel Fabric

- C1 - Traditional Commercial Zone
- C2 - Central Commercial Zone
- CT2 - Commercial Transitional Zone
- C3 - Riverfront Zone; C3hp
- C4 - General Commercial Zone; C4hp
- C5 - Shopping Centre Zone
- HZ - Highway Zone
- M1 - Light Industrial Zone
- M2 - Medium Industrial Zone; M2hp
- M3 - Heavy Industrial Zone
- R1 - Estate Residential Zone
- R2 - Old Town Residential Zone

- R3 - Low Density Residential Zone
- R4 - Medium Density Residential Zone
- R5 - High Density Residential Zone
- R6 - Mobile Home Residential Zone
- I - Institutional Zone
- EM - Environmental Management Zone
- PR - Parks and Recreation Zone
- RA - Rural Area Zone
- RP - Rural Precambrian Uplands Zone
- REX - Rural Aggregate Extraction Zone
- AIR - Airport Zone
- Named Use - Commercial Dock

Property Information

Civic Address: 207 Old Garden River Rd
Roll No.: 030075036000000
Map No.: 85/1-95
Date Created: July 26, 2023

0 10 20 m
1:1,000
This map is for general reference only.

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The Corporation of the City of Sault Ste. Marie
99 Foster Drive, Sault Ste. Marie, Ontario P6A 5X6
saultstemarie.ca | 705.759.2500 | info@cityssm.on.ca

NOTICE OF APPLICATION & PUBLIC MEETING

207 Old Garden River Road

Application No.: A-9-23-Z

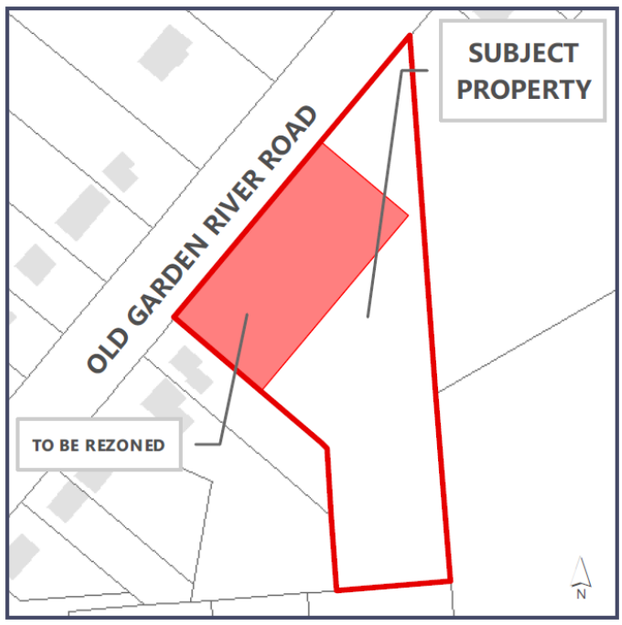
Applicant: Daniel Fremlin Holdings (c/o Daniel Fremlin)

Date: Monday, August 28, 2023
Time: 5:00 PM

Location: City of Sault Ste. Marie
Civic Centre, Council Chambers
99 Foster Drive

PURPOSE

The applicant, Daniel Fremlin Holdings (c/o Daniel Fremlin), has submitted an application to rezone a portion of the subject property shown as, the 'area to be rezoned' on the map attached, to permit 4 semi-detached residential units to be constructed at 207 Old Garden River Road.



PROPOSED CHANGE

Rezone the westerly portion of the subject property defined as 72.8 metres of frontage along Old Garden River Road and a depth of 36.5 metres, from Single Detached Residential Zone (R2) to Low Density Residential Zone (R3.S) with a Special Exception, subject to the following special provision:

1. Reduce the required parking ratio of 1.25 to 1 space per dwelling unit.

HAVE YOUR SAY

Input on the proposed Zoning By-Law and Official Plan amendment is welcome and encouraged. You can provide input by making a written submission or by making a public presentation.

TAKE NOTICE THAT the Council of The Corporation of the City of Sault Ste. Marie will hold a Public Meeting on Monday, August 28, 2023 at 5:00 p.m. to consider a Zoning By-law Amendment (under section 34 of the Planning Act, R.S.O 1990, c. P13, as amended).This meeting will be broadcast by Shaw Cable and may be viewed on Shaw Cable's Community Channel, Sootoday.com and on the City's YouTube Channel https://www.youtube.com/saultstemarieca

Any person wishing to present at the public meeting may do so electronically or in person. Electronic participants must contact the City Clerk at cityclerk@cityssm.on.ca or 705-759-5388 to register as a presenter. Registered presenters will be provided with instructions as to how to join the meeting in advance Any written submissions received in advance of the meeting will be included with Council's Agenda.

MORE INFORMATION

The application may be reviewed upon request. The report of the Planning Division will be available on Friday, August 25, 2023 as part of City Council's Agenda. Please contact Salvatore Marchese at 705.759.5445 or s.marchese@cityssm.on.ca to request a digital copy. Please refer to the application file number.

WRITTEN SUBMISSION

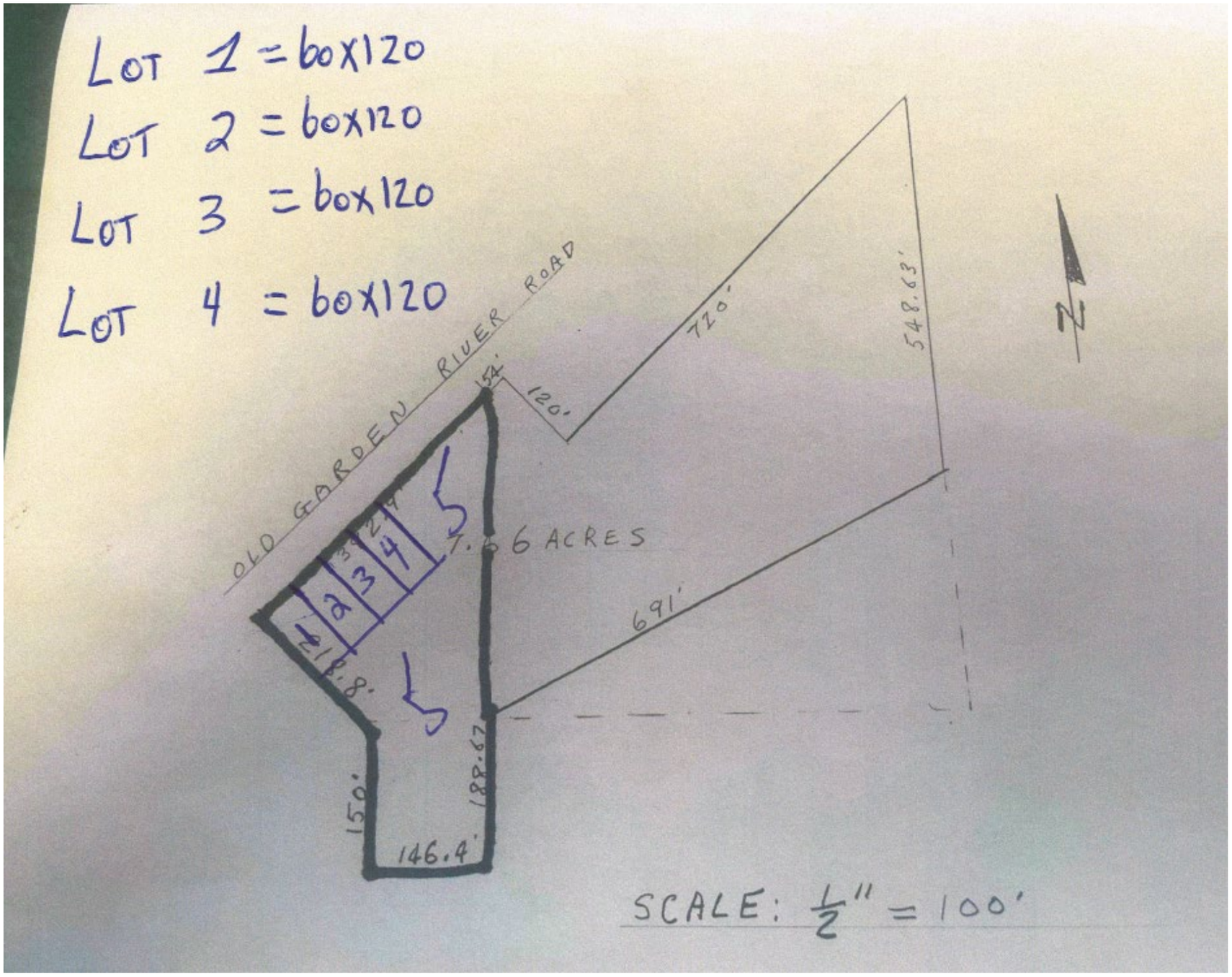
To provide input in writing, or request notice if the proposed application is approved, please submit a letter to Salvatore Marchese, 99 Foster Drive, Sault Ste. Marie, ON P6A 5X6, or e-mail to s.marchese@cityssm.on.ca with your name, address and application file number on or before **Monday, August 28, 2023**.

If you wish to be notified of the Council of the City of Sault Ste. Marie decision to adopt or refuse the approval of an application, you must make a written request to the Planning Division at the address noted above.

LEGAL NOTICE CONCERNING YOUR RIGHT TO APPEAL

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If a person or public body does not make oral submissions at a public meeting, or make written submissions to the City of Sault Ste. Marie before the By-law is passed, the person or public body may not be added as a party to the hearing of an appeal before the Ontario Land Tribunal unless, in the opinion of the Tribunal, there are reasonable grounds to add the person or public body as a party.


LOT 1 = 60X120
LOT 2 = 60X120
LOT 3 = 60X120
LOT 4 = 60X120
OLD GARDEN RIVER ROAD
54'
120'
720'
548.63'
N
1
2
3
4
1.56 ACRES
691'
218.8'
150'
188.67'
146.4'
SCALE: 1/2" = 100'

The Corporation of the
City of Sault Ste. Marie

C O U N C I L R E P O R T

August 28, 2023

TO:	Mayor Matthew Shoemaker and Members of City Council
AUTHOR:	Matthew Shoemaker
DEPARTMENT:	Mayor and Council
RE:	Search Consultant – CAO Recruitment

Purpose

To seek Council authorization to engage the search consultant recommended by the CAO Selection Committee, that being, Feldman Daxon.

Background

CAO Malcolm White announced his intention to retire in May 2023, with an anticipated retirement date of January 31, 2024.

In June 2023, Council appointed a CAO Selection Committee comprising of Mayor Shoemaker and Councillors Caputo and Bruni.

The CAO Selection Committee met on June 28, 2023 to lay out an expected timeline for the recruitment of a new CAO. It was decided, at their initial meeting, that a search consultant should be engaged to assist in the recruitment process.

An RFP was issued by the City's purchasing department, with a response date for interested firms of August 4, 2023. The City of Sault Ste. Marie received 12 proposals in response to the RFP, and those proposals were vetted and scored by Staff, comprising of the Manager of Purchasing, the Director of Human Resources, the City Clerk and the Deputy City Clerk. The proposals were also vetted and scored by the CAO Selection Committee.

Analysis

At a meeting on August 17, 2023, the scoring of all the individuals listed above was reviewed, and it was determined that the search consultant the CAO Selection Committee would like to engage is Feldman Daxon. Feldman Daxon ranked highly on the scoring matrix of each individual that reviewed the proposals. They propose a candidate search that will result in an appointment of a new CAO by December of 2023 or January of 2024, which is in line with the anticipated retirement date of CAO White.

Financial Implications
Feldman Daxon's proposed fee is $33,000 + HST. While not the determinative factor in recommending them, their fee was the third lowest of the 12 proposals. The average proposed fee within the 12 proposals was $44,500.

Strategic Plan / Policy Impact / Climate Impact
The Chief Administrative Officer is responsible for implementing the Strategic Plan, choosing the right search consultant will assist the CAO Selection Committee in choosing the right CAO. That decision will impact the corporation for the balance of this council term, and beyond.

Recommendation
It is therefore recommended that Council take the following action:

Resolved that the Report of Mayor Shoemaker dated August 28, 2023 concerning the recommended search consultant for the CAO selection process be received as information and the City Council authorize the hiring of Feldman Daxon to assist in the recruitment of a new CAO at their listed fee of $33,000 + HST.

Respectfully submitted,



Matthew Shoemaker
Mayor
705.759-5344
mayor.shoemaker@cityssm.on.ca

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NO. 2023-123

ZONING: A by-law to amend Sault Ste. Marie Zoning By-laws 2005-150 and 2005-151 concerning lands located at 188 Bloor Street West (Warmcrete Homes Inc. – Brahm Verhoeckx).

THE COUNCIL of The Corporation of the City of Sault Ste. Marie, pursuant to section 34 of the *Planning Act*, R.S.O. 1990, c. P.13 and amendments thereto, **ENACTS** as follows:

1. **188 BLOOR STREET WEST; LOCATED ON THE NORTHWEST CORNER OF BLOOR STREET WEST AND PARLIAMENT STREET; CHANGE FROM R3 TO R3.S WITH A "SPECIAL EXCEPTION"**

   The zone designation on the lands described in Section 2 of this by-law, which lands are shown on Map 57/1-59 of Schedule "A" to By-law 2005-150, is changed from R3 (Low Density Residential) zone to R3.S (Low Density Residential Residential) zone with a "Special Exception".

2. **BY-LAW 2005-151 AMENDED**

   Section 2 of By-law 2005-151 is amended by adding the following subsection 2(431) and heading as follows:

   "2(431) 188 Bloor Street West

   Despite the provisions of By-law 2005-150, the zone designation on the lands located on the northwest corner of Bloor Street West and Parliament Street and having civic no. 188 Bloor Street West and outlined and marked "Subject Property" on the map attached as Schedule 431 hereto is changed from R3 (Low Density Residential) zone to R3.S (Low Density Residential) zone with a "Special Exception" to, in addition to those uses permitted in an R3 zone:

   1. Permit a Triplex;
   2. Reduce the required exterior side yard setback from 4.5 metres to 3.0 metres for the triplex only;
   3. Reduce the required number of parking spaces from 4 to 3 for the triplex only."

3. **SCHEDULE "A"**

Schedule "A" hereto forms a part of this by-law.

4. **CERTIFICATE OF CONFORMITY**

It is hereby certified that this by-law is in conformity with the Official Plan for the City of Sault Ste. Marie authorized and in force on the day of the passing of this by-law.

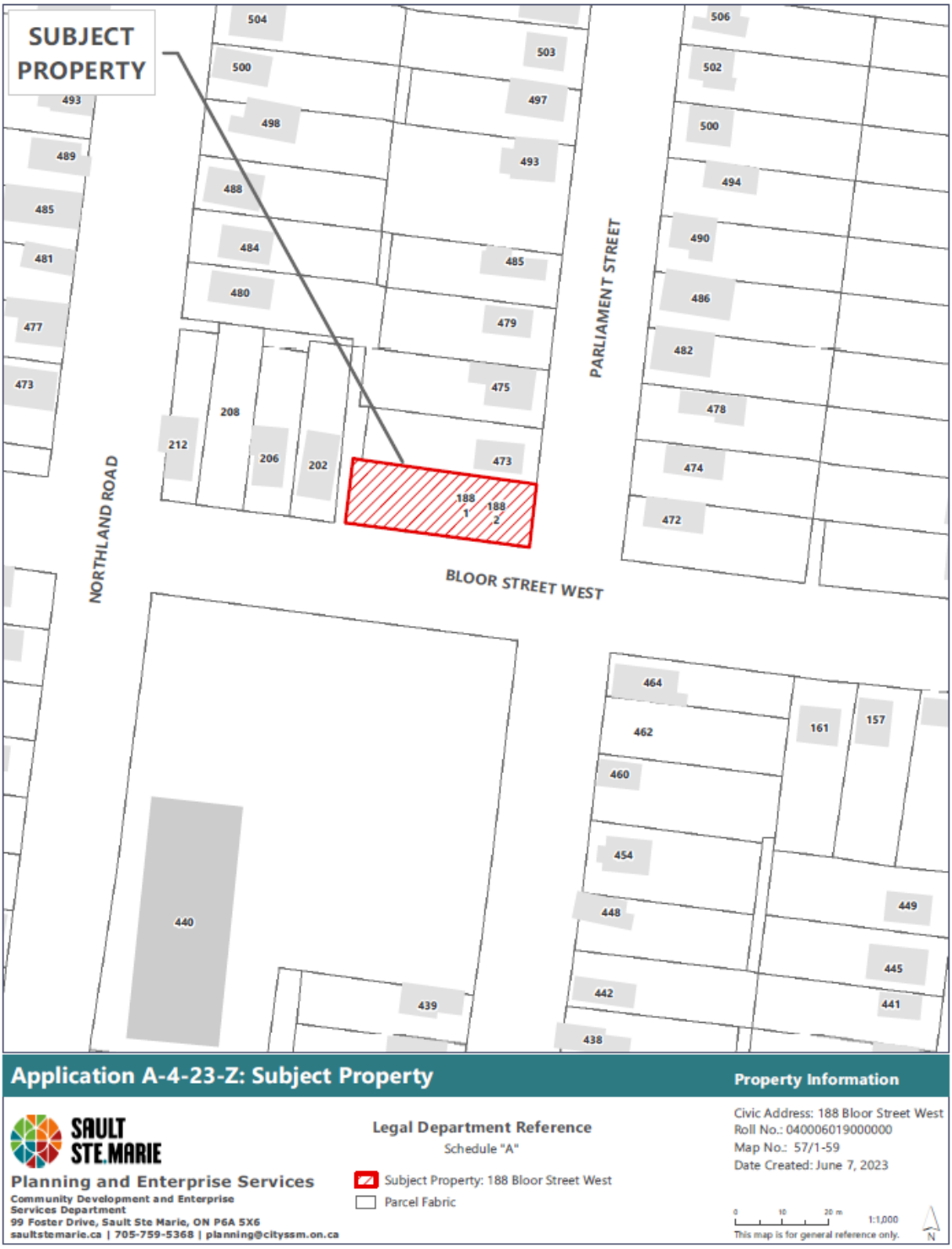
PASSED in Open Council this 28th day of August, 2023.

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

ep \\citydata\LegalDept\Legal\Staff\LEGAL\ZONING\2023\Bloor Street, 188\2023-123 Zoning.docx

SCHEDULE “A” TO BY-LAW 2023-123 AND
SCHEDULE 431 TO BY-LAW 2005-151



THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW 2023-133

AGREEMENT: A by-law to authorize the execution of the Agreement between the City and Canadian Pacific Railway Company (CP) for permission to maintain a welcome sign on CP's property.

THE COUNCIL of The Corporation of the City of Sault Ste. Marie, pursuant to section 9 of the *Municipal Act, 2001*, S.O. 2001, c. 25, **ENACTS** as follows:

1. **EXECUTION OF DOCUMENT**

The Mayor and City Clerk are hereby authorized for and in the name of the Corporation to execute and affix the seal of the Corporation to the Agreement dated August 1, 2023 between the City and Canadian Pacific Railway Company, a copy of which is attached as Schedule "A" hereto. This Agreement is for permission to maintain a welcome sign on CP's property.

2. **SCHEDULE "A"**

Schedule "A" forms part of this by-law.

3. **EFFECTIVE DATE**

This by-law takes effect on the day of its final passing.

PASSED in open Council this 28th day of August, 2023.

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

ep \\citydata\LegalDept\Legal\Staff\COUNCIL\BY-LAWS\2023\2023-133 Canadian Pacific Railway Company (CP) Welcome Sign Agreement (Trunk Road).docx

TNMK690140104

MASTER SIGN LICENSE AGREEMENT

THIS AGREEMENT, dated the 1st day of August, 2023

BETWEEN:

CANADIAN PACIFIC RAILWAY COMPANY
(hereinafter called collectively "CP")

- and –

THE CORPORATION OF THE CITY OF SAULT STE. MARIE
(hereinafter called the "Licensee")

WHEREAS the Licensee has requested the right to construct, repair and maintain Advertising Displays on CP's property located in the Province of Ontario on condition that each location receive CP's approval and otherwise complies with the other conditions stipulated herein. For purposes of this agreement, "Advertising Displays" is defined as any structure with one or more faces, designed for advertising purposes.

NOW THEREFORE, in consideration of the mutual covenants contained herein, the parties agree as follows:

1. Permission

CP hereby grants to the Licensee permission to maintain Advertising Displays on CP property within the Province of Ontario, at the locations and in the respective numbers of structures and advertising faces shown on Schedule "A" attached hereto, and which forms part of this Agreement, in accordance with the terms and conditions set out herein. Schedule "A" may be amended from time to time to reflect removals or additions of new Advertising Displays which have been approved according to the terms and conditions set out in Clauses 8 and 9 hereof.

2. Compliance with Laws

The Licensee shall comply with all applicable fire, safety, health, and environmental laws and regulations including all safety, health and environmental requirements pursuant to any government permit, license or authorization ("Laws By-Laws, Rules and Regulations") or any governing body respecting the installation and use of Advertising Displays erected and maintained on CP property under the terms of this Agreement, and will save harmless and fully indemnify CP,

its affiliates, subsidiaries, officers, employees, servants, agents and representatives (collectively, the "Railway Parties") from and against all loss, costs, damage and expense, of every kind or nature the CP Parties may suffer, be at or be put to by reason or in consequence of the noncompliance by the Licensee with such Laws, By-Laws, Rules and Regulations.

3. Access to CP Property

(a) In order to provide proper access to each Advertising Displays, CP hereby grants a nonexclusive right to the Licensee, at the Licensee's own risk and expense, to enter upon CP's property and use any roads necessary to conduct their normal business as provided for herein; provided however that such right to access shall be effected at such time and in such manner as to not interfere with CP's operations in any respect. The railway reserves the right to change, modify or relocate any such access route at its discretion. It is agreed that CP is not obligated to maintain such routes.

(b) If, in CP's opinion, the presence of the Licensee's personnel on CP property poses a risk to CP's operations or operational efficiency, CP may ask the Licensee's personnel to leave the property and return at another time and Licensee shall comply with such direction immediately.

(c) All individuals entering upon each respective property or the adjacent lands must have received safety training as may be required by CP. The Licensee shall become eRailSafe certified, and shall cause its personnel, such as employees, agents, contractors, subcontractors and suppliers, to become eRailSafe badged and comply with any eRailSafe policies, any other security polices and any similar policies which may be adopted from time to time by CP.

(d) For each group of the Licensee's employees and/or contractors, a minimum of fifty per cent of these personnel are required to have a valid eRailSafe badge and remain on site for the entire duration of the work on the property. Badged personnel are required to directly supervise those personnel without valid eRailSafe badges.

(e) Prior to entering CP property, the Licensee's personnel are required to inform CP that they are accessing CP's property by placing a call to the CP Police Control Center at 1-800-716-9132 to inform the CPCC of the supervisor's name and contact phone number, number of personnel, eRailSafe badge numbers of said personnel, name of the Licensee, location being accessed, approximate amount of time they will be there and any equipment they are using.

(f) The Licensee shall be solely responsible for their personnel's safety during each access to CP's property pursuant to this Agreement. Without limiting the generality of the foregoing, the Licensee shall ensure that all of the Licensee's Personnel who may be working on CP's property are aware of and fully

understand the CP Minimum Safety Requirements as attached in Schedule "B" (as amended or replaced from time to time).

(g) Any work performed by the Licensee may require flagmen, inspectors or such other personnel as CP may deem appropriate, in its sole and absolute discretion, in accordance with the nature of the work to be performed. The cost of such flagmen or other personnel shall be at the Licensee's sole cost and expense.

(h) Fenced Enclosures. The Licensee may perform maintenance work on certain Advertising Displays to be determined by CP without requiring the presence of a CP employee to provide flagging protection. The Licensee shall be entitled to erect fenced enclosures following CP's review and approval of to-scale site and construction plans for each fenced enclosure.

Specifications. As a condition precedent to granting the authorization referred to above, CP shall be entitled to specify the precise dimensions, location and minimum distance from the nearest railway track, for each fenced location.

Construction. Construction and installation of the fenced enclosures and all subsequent maintenance work shall be at the sole cost and expense of the Licensee, with all construction, installation and maintenance of the fenced enclosures to be conducted in a workmanlike manner, in accordance with the highest standards of quality and care and in conformity with all applicable laws and regulations.

Removal. In the event that CP is required, by any competent regulatory authority or level of government, to remove, modify or relocate all or any portion of the fenced enclosures, for any reason whatsoever within their jurisdiction, such request shall be satisfied by the Licensee, at its sole cost and expense, no later than within seventy-two (72) hours of receiving notice of same from CP or any such competent regulatory authority or level of government (the "Cure Period'). In such event, the Licensee shall have no recourse against CP, including, without limitation, no right to the abatement, reduction, compensation or set-off of any rent or other amount payable by the Licensee pursuant to this Agreement. Should the Licensee fail to satisfy such a request within the Cure Period, CP shall be immediately entitled to remedy same at the sole cost and expense of the Licensee. Any costs, expenses, losses or damages incurred by CP due to the failure of the Licensee to comply within the Cure Period, to any request regarding the fenced enclosures by any competent regulatory authority or level of government, shall be reimbursed to CP upon demand.

(i) The Licensee may, upon the consent of CP, remove any vegetation on CP's property that may obstruct the view of the Advertising Displays, at the Licensee's expense. In this regard, the Licensee shall contact CP's representative in advance to arrange to enter onto CP's property. At CP's

discretion, the presence of a CP employee to provide "flagging protection" may be required and all flagging costs are to be borne by the Licensee. The Licensee's employees, agents or subcontractors shall be required to sign a liability release form prior to commencing this work on CP's property, The Licensee shall be required to remove all vegetation cut from CP's property.

4. Assignment

The Licensee shall not assign, transfer or make any other disposition of this Agreement, or of the rights conferred thereby, without the prior written consent of CP, which consent may be withheld in CP's sole discretion. Notwithstanding the foregoing, the Licensee shall have the right to assign this Agreement, provide such assignment is done in the ordinary course of business, to any of its affiliates which are at least as solvent as the Licensee, without the written consent of CP. but subject to the prior notification of such assignment, transfer or disposition, to CP at least fifteen (15) days preceding its effective date.

5. Railway Removal of Advertising Displays

Should CP desire the Licensee to remove any of the Advertising Displays during the term hereof, CP shall give the Licensee ninety (90) days' notice, in writing, to that effect and upon receipt of such notice, the Licensee agrees to remove the said Advertising Displays from the property of CP and leave the property in a condition satisfactory to CP. If the Licensee defaults on this condition, CP may, at its election, (i) have the Advertising Display removed at the risk and expense of the Licensee or (ii) declare the Advertising Displays as being abandoned and ownership of such Advertising Displays shall pass to CP.

6. Licensee Removal of Advertising Displays

Should the Licensee desire to remove any of the said Advertising Displays during the term hereof, the Licensee shall give CP ninety (90) days' notice, in writing, to that effect and remove said Advertising Display(s) within that period, leaving the property of CP in a condition satisfactory to CP. CP shall refund to licensee any rental paid in advance for the unearned portion.

7. If one or more Advertising Displays should be removed as per the conditions set out in Sections 5 and 6 above, the annual fee payable shall be reduced by the amount to be paid in respect of the Advertising Display(s) so removed in accordance with the rate schedule as set out in Clause 9 hereof.

8. The Licensee may, with consent of CP, erect and maintain Advertising Displays upon the following terms and conditions:

(a) The Licensee shall submit to CP, the form of application and consent as established by CP from time to time, duly completed together with a "to scale"

site plan showing the exact location of the Advertising Displays in reference to CP's tracks and property boundaries. Each site plan shall reference structural detail drawings, which the Licensee shall submit to CP upon execution of this Agreement and from time to time as they are amended. The form and content of the 'to scale' site plan shall be in accordance with the sample, which is attached hereto as Schedule "C" and forms part of this Agreement.

(b) If CP is prepared to consent to the application, in CP's sole discretion, the Licensee will receive written consent signed by an authorized officer of CP, as well as the site plan prepared by the Licensee showing the exact location of the Advertising Displays.

(c) If written consent of CP is issued in response to the Licensee's proposed site plan, all terms and conditions of this Agreement shall apply to each authorized Advertising Display.

(d) If CP is not prepared to grant its consent to an application, the Licensee will be informed in writing that the application has been refused.

(e) The Licensee shall have six (6) months to erect the Advertising Display after receiving the necessary municipal permit. The Licensee will provide a copy of the municipal permit to CP. If an Advertising Display is not erected within this six (6) month period, CP will have the right to offer the location to another outdoor advertising firm.

(f) If one or more Advertising Displays are added to this Agreement, the annual fee shall be increased by an amount consistent with the rates as set out in Schedule "A" hereof or as otherwise agreed to by the parties. Special displays and spectaculars will be rated on a site specific basis.

(g) upon completion of the construction of each Advertising Display, the Licensee shall submit to CP written confirmation approved and signed by a qualified professional engineer verifying the suitability of the design and construction methodology and that the Advertising Display has been constructed in accordance with the site plan approved by CP, together with a copy of the "as built" plans for the Advertising Display.

9. In consideration of the rights and privileges hereby granted, the Licensee shall pay to CP, in advance, on the first day of September in each year, during the continuance of this Agreement, an annual fee, in the amount or amounts specified in Schedule "A". The Licensee agrees that Schedule "A" shall include all Advertising Displays faces, for which final CP approval has been granted. The fee for said Advertising Displays faces shall be the prevailing rates set out on Schedule "A" attached hereto for which payment shall commence on the earlier of the date of installation or one hundred twenty (120) days after the date of final CP approval.

(b) For each subsequent year of this Agreement, the annual rental fee for each Advertising Display will be increased by the greater of either the Consumer Price Index (CPI) or four (4%) percent.

(c) The term “CPI” refers to the Consumer Price Index, All Items, as published by Statistics Canada on a yearly basis or, if the Consumer Price Index in its present form becomes unavailable, such similar index as may be approved by Licensee and CP, acting reasonably.

(d) The Licensee will pay to CP, interest on all overdue amounts at a per annum aggregate rate equal to the prime rate of interest from time to time charged by any bank determined by CP to its prime commercial borrowers, plus four percent (4%), such rate to be compounded monthly. Such interest will be calculated from the due date until payment is made, the whole without the necessity of any demand being made therefore.

(e) The Licensee hereby grants to CP or its Consultants the right to obtain from the Canadian Outdoor Measurement Bureau (COMB) the total audited circulations of each Advertising Display located on CP's property. Said circulation figures may be requested by CP or its Consultants on or after February of each year during the term of this Agreement. Circulations for any new Advertising Display(s) built during any year will be furnished to CP or its Consultants by the Licensee within a reasonable time after the erection of the Advertising Display(s).

(f) Notwithstanding the foregoing, if the Licensee is required to remove one or more Advertising Displays by virtue of new legislation or regulations instituted by any public authority with jurisdiction (and upon confirmation of such new legislation or regulations to CP), the Licensee may exercise its termination rights as described in Clause 6 hereof and CP agrees to repay any unearned portion of the prepaid annual fee from the date of removal until the end of such license year for such Advertising Displays at a rate equal to the per diem rate based on the Advertising Displays annual fee.

10. Indemnity and Waiver

Except to the extent of CP's own gross negligence, Licensee shall be liable to CP for and shall indemnify and save harmless CP from and against any and all claims, suits, demands, awards, actions, proceedings, losses, costs, damages or expenses (including legal costs on a solicitor and own client basis) suffered or incurred by CP that arise out of or result or are attributable to any act or omission under this Agreement, or any breach of this Agreement, by the Licensee, or its subcontractors.

Except to the extent of CP's own gross negligence, Licensee shall make no claim

or demand against CP for any injury (including death), claim, expense, loss or damage to property suffered or sustained by Licensee or any other person which arises out of or is connected with this Agreement or anything done or not done as required hereunder, or any other errors or omission of Licensee, and hereby waives as against CP all such claims and demands.

This section shall survive the expiration or termination of this Agreement and shall in no manner limit or restrict the liabilities and obligations of Licensee under this Agreement.

11. All rents and other payments provided for in this Agreement shall be payable to "Canadian Pacific Railway Company".

12. (a) CP agrees to pay, during the term hereof, all taxes and levies imposed by any competent authority relative to the land on which the Advertising Displays are located. Notwithstanding the foregoing, the Licensee agrees to pay all taxes and levies imposed by any competent authority relative to the existence of its Advertising Displays placed on CP's property, including, without limitation, the Goods and Services Tax applicable to the fees under this agreement. CP's HST/GST number is R100769694 and CP's QST number is 1000505257TQ0507.

(b) The Licensee agrees to pay all business taxes assessed against the Licensee or against CP by reason of the business of the Licensee carried on at the location or locations set out in Schedule "A" attached hereto.

13. Insurance: Licensee shall, at its own expense, obtain and maintain during the Term, in a form and with an insurance company satisfactory to CP, policies of:

(a) Commercial General Liability (C.G.L) insurance with a limit of not less than Ten Million Dollars ($10,000,000) for any one loss or occurrence for personal injury, advertising injury, bodily injury, or damage to property including loss of use thereof. This policy shall by its wording or endorsement include without limitation the following;

(i) CP and its associated or affiliated subsidiaries (and the Directors, Officers, employees, agents and trustees of all of the foregoing) as an additional insured with respect to obligations of the Licensee in this Agreement;

(ii) "cross liability" or "severability of interest" clause which shall have the effect of insuring each entity named in the policy as an insured in the same manner and to the same extent as if a separate policy had been issued to each;

(iii) blanket contractual liability, including the insurable liabilities assumed by the Licensee in this Agreement,

(iv) broad form products and completed operations; (v)sudden and accidental
pollution liability, if applicable;

(v) non-owned auto liability;

(vi) shall not exclude property damage due to explosion, collapse, and underground hazards;

(vii) contingent employer's liability; and

(viii) shall not exclude operations on or in the vicinity of the railway right of way, if applicable.

(b) Automobile Liability insurance covering bodily injury and property damage in an amount not less than Five Million Dollars ($5,000,000) per accident, covering the ownership, use and operation of any motor vehicles and trailers which are owned, leased or controlled by the Licensee and used in regards to this Agreement.

During any period of construction, repair or maintenance of the Advertising Displays is to be performed on CP property, Licensee, shall obtain the following additional insurance:

(c) Contractor's Pollution Liability insurance, including naming CP and its associated or affiliated subsidiaries (and the Directors, Officers, employees, agents and trustees of all of the foregoing) as an additional insured, with a limit of not less than Two Million Dollars ($2,000,000) for any one loss or pollution event. Coverage shall include, but not be limited to, claims for bodily injury, death, damage to property including the loss of use thereof, clean-up costs and associated legal defense expenses arising from pollution conditions caused by, and/or exacerbated by, services performed by the Licensee. The policy shall be endorsed to contain a blanket contractual liability endorsement. If this policy is written on a "claims-made" basis it shall remain in effect for no less than twenty-four (24) months after the expiry or termination of this Agreement.

(Collectively, the "Insurance Coverage").

The Licensee agrees that the insurance requirements set out herein shall not limit or restrict its liabilities pursuant to this Agreement.

The Insurance Coverage required to be maintained pursuant to this Agreement shall be primary and not in excess of any other insurance that may be available. Unless otherwise provided above, all insurance coverage shall take place in the form of an occurrence basis policy and not a claims made policy. Licensee shall waive any and all subrogation in the event of injury, death, losses, incidents, claims and

potential claims where permissible under the insurance policies required under this Insurance Section.

The Insurance Coverage shall be endorsed to provide CP with not less than thirty (30) days written notice in advance of cancellation.

Licensee shall provide CP with written notice and alt reasonable particulars and documents related to any damages, losses, incidents, claims, and potential claims concerning this Agreement as soon as practicable after the damage, loss, incident, or claim has been discovered. Licensee is responsible for any deductible and excluded loss under any insurance policy. The deductible in any insurance policy shall not exceed such maximum amount that a reasonably prudent business person would consider reasonable.

If requested, Licensee agrees to provide CP, or a third party acting on CP's behalf, with written confirmation from the applicable workers' compensation authorities, or equivalent authorities, of the province(s) where the Advertising Display(s) will be installed that the Licensee and/or any related parties including subcontractors or agents involved in the installation, servicing or inspection of the Advertising Display, are in good standing with such authorities.

Licensee shall provide a copy of the certificate(s) of insurance evidencing the above Insurance Coverage and may require the Licensee to annually provide CP with a copy of updated certificate(s) of insurance evidencing the renewal of the above mentioned insurance coverage. All certificate(s) of insurance and notice(s) shall be sent via email to cprail@ebix.com.

CP shall have no obligation to examine such certificate(s) or to advise Licensee if its Insurance Coverage is not in compliance with this Agreement. Acceptance of any certificate(s) which are not compliant with the requirements set out herein shall in no way whatsoever imply that CP has waived its insurance requirements,

CP reserves the right to maintain the Insurance Coverage in good standing at Licensee's expense and to require Licensee to obtain additional insurance where, in CP's reasonable opinion, the circumstances so warrant. If the Licensee fails to maintain the Insurance Coverage required in this Agreement, CP may, at its option, terminate this Agreement without notice.

14. (a) The Licensee hereby accepts the land and premises pertaining to any Advertising Displays on an "as is" basis and hereby waives against CP, all rights and recourses of any nature whatsoever in respect to any defects therein. CP makes no representation or warranty with respect to the condition, nature, composition, use (past, present or future) of such land and premises.

(b) The Licensee shall comply with the provisions of any federal, provincial or municipal environmental laws which during the continuance of this Agreement shall become applicable to the land and premises pertaining to any Advertising Displays.

If any governmental authority exercising jurisdiction with respect to environmental protection requires, in respect to any Advertising Displays, certain measures to be taken; then the Licensee shall promptly take such measures as may be required by such governmental authority. The Licensee shall be solely responsible for the cost of all work carried out to comply therewith.

(c) Upon termination of this Agreement with respect to any Advertising Displays, the Licensee shall leave the land and premises pertaining thereto free of any environmental contamination resulting from the Licensee's occupation or use thereof. The Licensee shall have the burden of proving that any environmental contamination has not resulted from its occupation or use of such land premises. In the event that the Licensee fails to comply with the above to the satisfaction of CP, CP may undertake any such work that it considers necessary to correct any environmental contamination which may have resulted from the Licensee's occupation or use of the land and premises pertaining hereto and all expenses incurred by CP, either directly or indirectly, shall be payable by the Licensee upon receipt of CP accounts therefor.

(d) The responsibility of the Licensee to CP with respect to these environmental obligations shall continue to be enforceable by CP notwithstanding the termination or expiry of this Agreement.

15. CP hereby reserves the right at all times and may, from time to time, upon written notice to the Licensee request the removal of any advertisement or poster which, in the reasonable opinion of CP, is of an offensive nature according to community standards, denigrates any persons or groups of persons, or is in any way detrimental to CP's interest. The Licensee hereby agrees to remove such advertisement within forty-eight (48) hours of receipt of such notice. Should the Licensee fail to do so, CP reserves the right to remove the advertisement at the risk and expense of the Licensee.

16. The Licensee agrees to remove, clean or repair any Advertising Displays damaged by vandalism, graffiti or mischief within ten (10) days of receiving notification of same.

17. With written consent from either party, CP or the Licensee may enter into an agreement with a third party, for purposes of installing upon the Licensee's sign structure consumer telecommunications equipment ("the equipment") provided that:

(a) Such agreement is a licence in nature and is secondary to and does not conflict with, the terms of this Agreement;

(b) Such agreement provides the Licensee indemnification, against liability for any of the third party's activity at the locations.

(c) Such agreement neither conveys nor purports to convey any legal interest by the third party in the Licensee's sign structure except as strictly set out in the agreement, notwithstanding that the equipment may be attached to the sign structure and notwithstanding that the third party may use the sign structure to access the equipment.

(d) Such agreement neither conveys nor purports to convey to the third party access to the Licensee's electrical equipment except as is strictly set out in the agreement.

(e) The location of the equipment on the structure, whether such equipment is visible from the road or not, be subject to the Licensee's approval;

(f) In the event that such an agreement is entered, CP and the Licensee agree that each shall be entitled to an agreed upon percentage of the total compensation payable by the third party. For greater clarity, should the third party offer "other consideration" in lieu of or in addition to monetary compensation, (e.g. assumption of utility expenses, taxes), such "other considerations" would be determined at market value and would be considered as part of the total compensation payable by the third party.

18. This Agreement shall remain in full force and effect for a period of three (3) years from the effective date hereof being the 1st day of September 2023, and terminating on the 31st day of August 2026, provided, however, this Agreement may be terminated at any time by CP upon not less than ninety (90) days' written notice to the Licensee. CP shall refund to Licensee any rental paid in advance for the unearned portion.

19. Notwithstanding any other provision of this Agreement, in the event that the Licensee fails to comply with any of the terms and conditions of this Agreement, CP shall have the right to terminate this Agreement in whole or in part on notification to the Licensee as follows: CP shall give to the Licensee written notice pursuant to Clause 20 setting out the details of such breach and CP's intent to cancel this Agreement in whole or in part. At the expiration of fifteen (15) days from the date of receipt of such notice, if the Licensee has failed to rectify the breach or to commence rectification of such breach in a reasonable and diligent manner that is acceptable to CP, CP may cancel this Agreement in whole or in part effective with further written notice to the Licensee. Upon such termination, the provisions of Clause 21 shall apply.

20. Any notice required to be given from one party to the other must be in writing and may be delivered either (i) in person, (ii) by overnight courier or (iii) registered mail to the following addresses:

If to CP:

CANADIAN PACIFIC RAILWAY COMPANY
7550 Ogden Dale Rd. S.E.
Calgary, AB T2C4X9
Attention: Manager, Real Estate
Email: Virginie.favreau@cpckr.com

If to the Licensee:

THE CORPORATION OF THE CITY OF SAULT STE. MARIE
99 Foster Drive, Civic Centre
Sault Ste. Marie, Ontario, P6A 5X6
Attention: Melanie Borowicz-Sibenik
Assistant City Solicitor/Senior Litigation Counsel
Email: m.borowiczsibenik@cityssm.on.ca

Such notice shall be deemed to have been given or received by the other party: (i) on the date sent when sent by confirmed e-mail or, (ii) three (3) business days after being sent by registered mail to the address set forth in this Agreement. Notices may also be communicated by email, so long as such notice is also sent by one of the other means permitted above within one (1) day of such email transmission.

21. Upon the termination of this Agreement, the Licensee shall, within thirty (30) days of the effective termination date, remove all of the Advertising Displays, including any foundation thereof, covered by this Agreement from the property of CP leaving the said property in a condition satisfactory to CP, provided that if the Advertising Displays are not removed by the Licensee within the said thirty (30) days, then CP may either (i) remove them at the expense and risk of the Licensee or (ii) such Advertising Displays may be deemed abandoned and shall become the property of CP. and in either case the conditions embodies in Clause 13 hereof will remain applicable and effective until such time as all work to be performed by or at the risk and expense of the Licensee, as provided in this Clause 21, has been carried out to the entire satisfaction of CP.

22. This Agreement cancels and supersedes all prior agreements pertaining to the Advertising Displays listed in Schedule "A".

23. Audit

Licensee shall keep and maintain true and correct books, records and accounts with respect to the performance of the Licensee's obligations pursuant to this Agreement, along with invoices and monthly summaries, for a period of seven (7) years after the Licensee ceases to operate under this Agreement. Licensee shall,

upon the request of CP or its Consultants, make available and permit CP or its Consultants during such period to inspect, make copies of, and audit such records. If there is any revision to charges as a result of an audit, within thirty (30) days of audit, Licensee shall pay to CP the full amount of any credit or CP shall pay to Licensee the full amount of any shortfall as applicable. This section shall survive termination of this Agreement.

24. Confidentiality

(a) Licensee shall:

(i) not make use of any CP Confidential information for its own personal gain or for any purpose other than is required to perform its obligations pursuant to this Agreement;

(ii) not disclose any CP Confidential Information to any person except Licensee's employees, consultants, subcontractors and agents who have a need to know such information consistent with the performance of Licensee's obligations pursuant to this Agreement, but only after such person has properly assumed obligations identical in principle to those in this Section and Licensee ensures that such person at all times complies with those obligations;

(iii) employ diligent efforts and exercise reasonable care to hold all CP Confidential Information in the strictest confidence;

(iv) not use CP's name for any marketing or promotional purposes and not make any public announcements or disclosure in respect of this Agreement or Licensee's relationship with CP without first obtaining written consent from CP; and

(v) be liable to CP and indemnify CP in accordance with Section 10 for any breach of this Section by Licensee or its employees, consultants, subcontractors or agents.

(b) Neither party shall:

(i) disclose the terms of this Agreement or amounts paid under it to any person without the other party's written consent, except to a party's employees, professional advisors and insurers who have a need to know such information, but only where the party ensures that such persons are under obligations of confidentiality identical in principle to those in this Section; or

(ii) disclose the terms of this Agreement or amounts paid under it, except in accordance with this Agreement and except as required by law, provided

that the party from whom disclosure is demanded pursuant to law shall promptly notify the other party of such demand so that the other party has an opportunity to oppose the production.

For the purposes of this Agreement, "CP Confidential Information" shall mean: any and all information, material, or data disclosed to Licensee by CP or its affiliates, or obtained by Licensee in connection with performing its obligations in this Agreement, whether orally, or in any written, magnetic, or electronically recorded form, or by drawings, or inspection of parts or equipment, and including without limitation:

i. information, knowledge or data of an intellectual, technical, scientific, commercial or industrial nature, or of a financial, cost, pricing, or marketing nature relating to the business operations of CP;

ii. "personal information" as defined in the Personal Information Protection and Electronic Documents Act (Canada) (and any applicable similar information protected by provincial legislation that may be enacted); or iii. any information supplied by CP that is clearly marked "Confidential"; but not including information in the public domain or information that at the time of disclosure was already known to Licensee on a non-confidential basis.

The parties agree that any violation of this Section is a material breach and that CP may avail itself of any legal or equitable remedies available in the event of such breach.

This Section shall not be replaced or modified by any terms contained elsewhere in this Agreement, including any schedules attached hereto or purchase orders issued in accordance with this Agreement.

This Section shall survive the expiration or termination of this Agreement.

25. Binding Effect; This Agreement shall be binding upon and enure to the benefit of each of CP and the Licensee and their respective successors and permitted assigns.

26. Code of Business Ethics: Licensee undertakes, as a condition of its engagement, to adhere to principles and standards of business conduct consistent with those set forth in CP's Code of Business Ethics, which is available for viewing at www.cpr.ca.

27. No Waiver: Neither party shall be deemed to have waived the exercise of any right that it holds pursuant to this Agreement unless such waiver is made in writing. No waiver made with respect to any instance involving the exercise of any such right shall be deemed to be a waiver with respect to any other instance involving the exercise of that right or with respect to any other right.

28. Governing Law: This Agreement shall be governed by and interpreted in accordance with the laws of the Province under which the Advertising Displays are located and the laws of Canada applicable therein, excluding any conflict of laws rules that may apply therein. The parties hereby attorn to the exclusive jurisdiction of the courts of the Province of Alberta, without prejudice to the rights of CP to take proceedings in any other jurisdiction. The parties hereby waive any right to a trial by jury.

29. Time of the Essence: Time shall be of the essence in this Agreement.

30. Entire Agreement; Invoice Terms of No Effect: This Agreement constitutes the entire agreement of the parties concerning its subject matter and no other representation, warranties or agreements, either oral or written, shall be binding upon the parties with respect to the subject matter. This Agreement supersedes and invalidates all prior agreements, understandings, negotiations, representations and warranties, whether oral or written, with respect thereto.

31. Amendment: This Agreement may not be varied, modified, amended, supplemented, or replaced except by written agreement executed by all parties to this Agreement.

32. Counterparts: The parties may execute this Agreement in separate counterparts, each of which shall be deemed to be an original and all of which together shall be deemed to be one and the same instrument. The exchange of copies of this Agreement and of signature pages by facsimile or e-mail shall constitute effective delivery of this Agreement and may be used in lieu of the original Agreement for all purposes.

{The next page is the signatory page.}

IN WITNESS WHEREOF, these presents have been duly executed on behalf of the parties hereto on this ____ Day of _____2023.

CANADIAN PACIFIC RAILWAY COMPANY

By:_____

Name:

Title:

I have the authority to bind the corporation.

CORPORATION OF THE CITY OF SAULT STE. MARIE

By: _____

Name: Matthew Shoemaker

Title: Mayor

I have the authority to bind the corporation.

By: _____

Name: Rachel Tyczinski

Title: City Clerk

I have the authority to bind the corporation.

MASTER SIGN LICENCE AGREEMENT
CORPORATION OF SAULT STE. MARIE
SCHEDULE 'A'

CP Lic #	Location	Municipality	Province	Subdivision	Milepost	Payment Frequency	Sept 2023	Sept 2024	Sept 2025
TNMK 690140104	Trunk Rd. NS	Sault Ste. Marie	ONT	Webbwood	147.21	Annual	$863.77	$898.32	$934.25
						Total	**$863.77**	**$898.32**	**$934.25**

Minimum Safety Requirements for Contractors Working on CP Property in Canada



Approval Authority:	Corporate Risk	**Effective Date:**	January 20, 2020
Version:	4.0	**Review Date:**	January 20, 2023

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Introduction

At Canadian Pacific (CP), safety is an integral part of the way we do business. We expect everyone working on Canadian Pacific's property to be unconditionally committed to safety. Safety must be given top priority and will take precedence over deadlines, production schedules, and all other considerations.

1 Application

1.1 Application

1.1.1 These Minimum Safety Requirements are applicable to all who work on CP property (except as noted in 1.13 and 1.14 below) including Contractors and other persons performing Work or otherwise providing services to Canadian Pacific on CP Property in Canada.

1.1.2 These Minimum Safety Requirements cannot be waived or altered, in whole or in part, without a prior Risk Assessment specific to the Work conducted and the Manager-In-Charge has provided written consent.

1.1.3 Notwithstanding the foregoing, these Minimum Safety Requirements do not apply to other railway companies who only operate trains on CP Property under various trackage or interchange agreements.

1.1.4 Further, notwithstanding the foregoing, these Minimum Safety Requirements may not apply to Work or services provided in CP Property in Canada that are Office Premises, in which case, CP's Minimum Safety Requirements for Contractors Working In CP's Office Premises may apply.

2 Definitions and Interpretation

2.1 Definitions

2.1.1 In these Minimum Safety Requirements, the following capitalized terms shall have the ascribed meaning below:

(a) "**Applicable Legislation**" means all applicable legislation, regulations, by-laws, codes, rules, standards, policies, procedures, promulgated by any federal, state, and municipal governmental body, including those of its agencies, having authority over CP and, or a Contractor in relation to the Work in the matter of health and safety of the person, property and, or the environment;

(b) "**Canadian Pacific**" or "**CP**" means Canadian Pacific Railway Company Ltd., and its subsidiaries and affiliates, and includes each of their respective directors, officers, employees, agent, and representatives;

(c) "**CP Personnel**" means CP's employees, agents, and representatives;

(d) "**CP Property**" means any building, facility, yard, track, right of way or other property owned or controlled by CP;

(e) "**Contractor**" means the company or person, and their respective employees and authorized agents, representative and subcontractors who are providing goods or services to CP; or on behalf of a third party working on CP property.

(f) "**Contractor Personnel**" means the Contractor's employees, and authorized agents, representative and subcontractors;

(g) "Co-mingled Work" means Work where Contractor Personnel works directly with or, in close proximity (time or space) to CP Personnel;

(h) **"eTest"** an efficiency test. It is a planned procedure to evaluate compliance with rules, instructions and procedures, with or without the employee's knowledge.

(i) **"Foul of Track"** means the placement of an individual or equipment within 4' feet of the outside rail of a railway track that could be struck by a moving train or on- track work equipment (e.g. Hi-rail equipment).

(j) "**Hazardous Materials**" means any substance, which is hazardous to persons or property and includes, without limiting the generality of the foregoing:

(i) radioactive, explosive, poisonous, or toxic substances;

(ii) any substance that if added to any water, would degrade or alter the quality of the water to the extent that it is detrimental to its use by man or by any animal, or plant;

(iii) any solid, liquid, gas or odour or combination of any of them that, if emitted into the air, would create or contribute to the creation of a condition of the air that endangers the health, safety, or welfare of persons, or the health of animal life, or causes damage to plant life or to property; and

(iv) substances declared to be hazardous, toxic or dangerous under any law or regulation now or hereafter enacted by any governmental authority having jurisdiction.

(k) "**Manager-in-Charge**" means a CP manager as designated or otherwise identified by CP as being responsible for overseeing the Work to be performed, such Manager-in-Charge may include, but is not limited to Local CP Management, Regional Superintendents, Division Engineers, and Project Managers.

(l) "**Mobile Equipment**" means any motorized and self-propelled equipment, excluding Railway equipment and highway vehicles, but including, for example, forklifts, tractors, cranes, ATVs, mules, motorized scissor lifts, and similar equipment that are not designed to operate or move on railway tracks;

(m) "**Office Premises**" means any building, facility, or portion thereof, or other premises, whether owned or controlled by CP, which is used solely for clerical or administrative purposes and which does not contain heavy equipment or machinery, as designated by CP from time to time;

(n) "**Qualified and Authorized**" means a status attained by a person who has successfully completed any required training and demonstrated proficiency in the duties of a particular position or function and who has been given the right to act.

(o) **Railway equipment**" means trains, locomotives, railcars, track units, hi-rail vehicles and any other equipment designed to operate or move on railway tracks;

(p) "**Site Safety Plan**" means a contractors' documented plan which set out how Work is to be conducted in a safe manner, as required by Applicable Legislation see 3.16;

(q) **"Third Party Project"** means any work being performed on CP property that CP is not managing (i.e, road authority, utility company, commuter agency, or other similar entity, are on CP property for their own purposes, and not a project sponsored or managed by CP.

(r) "**Work**" means the provision of products and services and related activities;

(s) "**Work Site**" means any CP Property where CP Personnel or Contractor Personnel are present, or permitted to be present, while engaged in any Work, including any railway equipment, Mobile Equipment and highway vehicles operated by or used to convey a person engaged in such Work. This applies also to work immediately adjacent to CP property, which can pose a risk to safe railway operations (i.e., blasting, excavation next to Right-of-Way (ROW), etc.).

2.2 Interpretation & Application

2.2.1 Where legislation is referred to in these Minimum Safety Requirements, it shall include all amendments and replacements thereto as promulgated from time to time.

2.2.2 Where standards, such as those of the Canadian Standards Association (CSA), is referred to in these Minimum Safety Requirements, they shall include all amendments and replacements thereof from time to time.

2.2.3 Where there is any ambiguity, inconsistencies, or omissions between or among any agreements with CP, expressed or implied; any Applicable Legislations; any applicable CP policies and practices; and any applicable industrial standards and practices, Contractor and Contractor Personnel shall adhere to that which is most stringent and current.

3 Contractor Compliance & Responsibilities

3.1 General Compliance

3.1.1 Contractor shall be fully and solely responsible for ensuring the safety and health of Contractor Personnel and for ensuring that its Work and other activities do not compromise the health and safety of CP Personnel or any other party, the protection of the environment, the protection of CP's property and those of any other party, and do not interfere with the safety of CP's railway operations.

3.1.2 Contractor shall comply with and shall ensure all of Contractor Personnel are trained and qualified to safely perform the Work and that they comply with all Applicable Legislation pertaining to the protection against fire, safety, health, and environmental hazards, and with any license, permits, authorizations issued by the respective authority.

3.1.3 Contractor shall comply with and shall ensure all of Contractor Personnel comply with all terms and conditions of all agreements, expressed or implied, between Contractor and CP, and all applicable CP policies and practices.

3.1.4 Subject to the requirements of CP's Access Control Procedures, the contractor shall provide CP eRailsafe training for each employee engaged in work on CP property. Where there is no agreement between CP and the Contractor, the Contractor is responsible for meeting the additional requirements outlines within CP's Access Control Procedures.

3.1.5 Contractor shall provide Contractor Personnel, at its own expense, all safety equipment required to protect against injuries during the performance of the Work and shall ensure that Contractor Personnel are knowledgeable of and utilize safe practices in performing the Work.

3.1.6 The Contractor shall have a copy of the following documents at the Work Site at all times, and shall produce them as and when requested by CP:

(a) These Minimum Safety Requirements for Contractors Working on CP Property;
(b) Licenses, Certifications, permits, training records or other documents required by Applicable Legislation or these Minimum Safety Requirements;
(c) Contractor's Site Safety Plan;
(d) Contractor's Emergency Information Sheet (see Attachment A); and
(e) Any additional documents required by Contract or by agreement with Manager-in-Charge.
(f) Employee identification (eRailsafe badge – see 9.1.1).

3.2 Compliance Assurance

3.2.1 CP reserves the right to observe, inspect, test and audit Contractor and Contractor Personnel for compliance with all requirements herein, and to demand and receive all relevant records, documentation, and materials evidencing compliance, at any time, and from time-to-time.

3.2.2 Failure of the Contractor or Contractor Personnel to comply with any applicable provisions herein may be considered a material breach, and in addition to all other remedies available, CP may without prejudice:

(a) take over control of that Work or activity;
(b) order the Work to stop; and/or
(c) order Contractor Personnel to leave CP Property.

3.2.3 Upon the earlier of the completion of the Work, the expiration of the applicable agreement, or the request of a Manager-in-Charge, Contractor and Contractor Personnel shall return all identification, badges, access cards, and decals, issued or provided by CP to the Manager-in-Charge.

4 Site Safety Plan

4.1 General Requirements

4.1.1 Prior to starting any Work on CP Property, the Contractor must have a written Site Safety Plan that identifies:

(a) All applicable legislation, rules, policies and work practices in relation to the Work being performed;

(b) Specific hazards that are associated with the Work being performed on CP property for CP, and Work being performed not for CP:

For example:

(i) Construction, maintenance or inspections of buildings;

(ii) Working on or adjacent to railroad tracks;

(iii) Maintenance or inspection or railroad tracks, crossings or signal systems;

(iv) Maintenance, reconstruction or construction of railway crossings, crossing approaches, grade separations, passenger facilities, passenger platforms, utility crossings or any other work which may affect the safe movement of trains;

(v) Operating Railroad Equipment on CP tracks; or

(vi) When/where Contractor Personnel work directly with or in proximity (time or space) to CP Personnel; and

(c) Methods of verifying compliance.

4.1.2 The Contractor will provide Manager-in-Charge with a copy of this Safety Management Plan on reasonable request.

4.1.3 The Contractor must be able to demonstrate an awareness of applicable legislation, rules, policies and work practices in relation to the work being performed.

5 Safety Training

5.1 Minimum Training & Qualifications

5.1.1 At its sole cost and expense, Contractor shall ensure that all Contractor Personnel be fully trained and qualified for the Work they will be performing. Contractors and Contractor Personnel shall meet, or exceed, all applicable legislation requirements relating to training and qualification.

5.1.2 Additionally, Contractor Personnel training and qualification shall meet or exceed all applicable industry standards.

5.2 Proof of Training & Qualification

5.2.1 Contractor Personnel shall at all times have proof of such training and qualifications and shall produce them as and when requested by the Manager-in-Charge.

5.2.2 CP reserves the right to inspect qualification certificates, licenses, training records and/or Work-history records for any Contractor Personnel, and, or to be provided with copies thereof, on reasonable request. In addition, CP reserves the right to perform eTests on contractor employees, and request discipline for non-conformance.

6 Safety Orientation

6.1 General Requirements

6.1.1 Prior to beginning Work, all Contractor Personnel shall participate in a CP authorized safety orientation, including on-site orientation presented by the Manager-in-charge or designate.

6.1.2 Any time the scope of Work, location, condition or supervision changes, Contractor Personnel may be required to attend additional safety orientation sessions.

6.1.3 After successful completion of such safety orientation, Contractors must be able to produce company identification or an eRailsafe photo identification badge authorizing access to CP property unescorted for the purposes of conducting work. Managers have the ability to enter the tracking code into CM (Compliance management). Third parties who hire subcontractors must ensure required compliance while on CP property. The eRailsafe identification card shall be worn or be made visible at all times, or produced upon request and cannot be transferred under any circumstances.

7 Job Safety Briefing

7.1.1 Contractor Personnel shall attend all Job Safety Briefings as and when conducted. Contractor Personnel shall be solely and fully responsible for understanding the content of the Job Safety Briefing, and at a minimum shall:

(a) have an understanding of the scope of Work to be performed and an appreciation of the nature of the location, environment, and conditions where such Work is to be performed;
(b) be aware of specific or unusual hazardous condition, existing or potential and the control measures required to protect against, control, mitigate, or where possible, avoid said hazard; and
(c) Have emergency response plan/evacuation procedures.

7.1.2 Where Contractor Personnel are working directly with or in proximity (time or space) to CP Personnel, job briefings must include both CP Personnel and Contractor Personnel, and any other affected third parties. The Job Safety Briefing shall identify nature and extent of the interaction between the Work being performed by Contractor Personnel, and those performed by CP Personnel or other third parties. Contractor Personnel shall inform CP Personnel, and any other third parties of known or potential unsafe conditions and hazards that may be created by, resulting from, or inherent in their Work and the corresponding preventative, mitigation, and/or control measures at all job safety briefings prior to commencing Work, or as soon as Contractor Personnel becomes aware of such conditions.

7.1.3 In all situations, all Contractor Personnel are expected to:

(a) continually identify hazards and assess risk of hazards and to continually and clearly communicate all hazards to the Manager-in-Charge and to all other parties that may be affected at job briefings, and at any other time as and when appropriate or necessary;

(b) take actions that are within their assigned responsibility to eliminate or control hazards and risks; and

(c) immediately notify their supervisor or the Manager-in-charge of hazards that pose unacceptable risk that they are unable to eliminate or control.

7.1.4. Where Contractor Personnel are unable to eliminate or control a hazard, Contractor Personnel shall take interim measures to protect people, property, equipment and the environment until the hazard can be properly assessed and appropriate corrective actions taken.

8 Applicable Legislation

8.1 General Requirements

8.1.1 Contractor and Contractor Personnel shall be solely responsible for identifying and complying with all Applicable Legislation. Contractors and Contractor Personnel providing Work to CP are likewise required to comply with all Applicable Provincial and Federal Legislations. At a minimum, Contractor and Contractor Personnel shall comply with the federal legislations set out below which list is intended solely for general guidance, and not as a comprehensive list of all applicable legislation.

8.1.2 Additionally, the Railway Association of Canada (RAC) is an industry association which can provide support and guidance on matters related to railway safety and the transportation of dangerous goods.

8.2 Transportation of Dangerous Goods

8.2.1 When Work involves the handling or transportation of dangerous goods, that Work must comply with the federal *Transportation of Dangerous Goods Act*, (TDG). Contractor shall be solely responsible for ensuring that all Contractor Personnel who handles, offers for transport and/or transports dangerous goods by any transportation mode be trained and holds a valid training certificate or is working under the direct supervision of someone who is trained and holds a valid training certificate. The training must be based on the Work that the person is expected to perform and the DG that the person is expected to handle, offer for transport or transport.

8.2.2 Contractors shall be solely responsible for ensuring that Contractor Personnel who handles, offers for transport and/or transports dangerous goods by any transportation mode are trained and hold a valid training certificate or is working under the direct supervision of someone who is trained and holds a valid training certificate. That training must be based on the Work that the person is expected to perform and the dangerous goods that the person is expected to handle, offer for transport or transport.

8.2.3 Transport Canada enables the Transportation of Dangerous Goods Act to publish Transportation of Dangerous Goods Regulation. The TDG Regulations divide dangerous goods into 9 classes according to the type of hazard they present

8.3 Canada Labour Code

8.3.1 Where Work is being performed that may create a risk to the health and safety of CP Personnel, Contractor Personnel must comply with Part II of the Canada Labour Code.

8.3.2 Additionally, Contractor and Contractor Personnel shall comply with all applicable provisions of the Occupational Health and Safety Regulations (COHS) which are intended to prevent accidents and injuries to employees working for federally regulated companies. Compliance with these regulations may extend to Contractors, depending on the type of Work being done and their proximity to CP Personnel (i.e. Co-mingled Work). Alternatively, provincial occupational health & safety regulations will govern Contractors.

8.4 Railway Safety Act

The *Railway Safety Act* (RSA) governs all federally certified railways in Canada and some provincial railways through various agreements with Transport Canada. The RSA addresses all

8.4.1 matters relating to the construction, alteration, operation, inspection and maintenance of railway works and railway equipment, and contains training and qualification requirements for certain types of Work. When applicable, Contractor and Contractor Personnel shall perform Work in accordance with the RSA, as if directly bound by it.

8.5 Environmental Protection Act

8.5.1 Where Work is being performed that may impact the environment, that Work must comply with all applicable federal and provincial environmental acts and regulations. Some examples of applicable legislations includes the Canadian Environmental Protection Act; Fisheries Act, Navigable Waters Protection Act; Species at Risk Act; Migratory Birds Convention Act; and all corresponding Regulations. Provincial requirements are normally set out in a general Environmental Protection Act which is complemented by numerous regulations addressing more specific areas of concern. Canadian Environmental Protection Act http://laws-lois.justice.gc.ca/eng/acts/C-15.31/

9 Security Access to CP Property

9.1 Access to CP Property

9.1.1 All Contractor Personnel must have the following identification in their possession at all times while on CP Property, and present them for review to any Manager-in-Charge, other CP managers and employees, Police Officer, security guard, or regulatory officer upon request:

(a) photo identification (e.g. driver's license);
(b) proof of employment document or card;
(c) identification card, or other proof of safety orientation issued by CP;
(d) access pass, issued and signed by a CP manager, where Work requires Contractor Personnel to ride in any locomotive or other non-passenger rolling stock;
(e) security identification card, where required by CP; and
(f) building access pass, where required by CP or by a third party having control of the premises.
(g) Valid eRailsafe card

9.1.2 Where any Work requires Contractor Personnel to ride in locomotive or other non-passenger railroad equipment, the Contractor must also possess a CP ACCESS PASS for riding non-passenger railroad equipment, signed by the responsible operating manager.

Such a signed pass must be presented to the train crew or operator when boarding the equipment. Failure to possess such a pass will result in the equipment not moving, removal from the equipment, and/or the filing of trespasser charges.

9.2 Security Awareness

9.2.1 The Contractor shall conduct such background check as is necessary to ensure that Contractor Personnel do not pose a security risk to CP, such security risk includes the risk of the commission of terrorist activities, sabotage, vandalism, theft, and violence. CP reserves the right, at all times, to require that Contractor undertake certain security training and/or perform background checks of Contractor Personnel, prior to allowing such Contractor Personnel to enter onto CP Property.

9.2.2 On request CP can make available a copy of CP's Railway Security Awareness program for use by Contractor Personnel.

9.3 Firearms & Explosives

9.3.1 Firearms (loaded or empty) are not permitted on CP Property, except for Police officers and other designated government officials when authorized to do so.

9.3.2 No explosives will be permitted on CP Property without written approval by the Manager-in-Charge.

9.4 Reporting

9.4.1 Contractor Personnel must report any security concern, security incident, criminal activity (known or suspected), suspicious happenings and/or suspicious persons on CP Property to the Manager-in-Charge or to CP Police Services in accordance with Section 18.

10 Personal Conduct

10.1 Drug and Alcohol Standards

10.1.1 The Contractor and Contractor Personnel shall comply with CP's Alcohol and Drug Policy and Procedure while under contract to perform services for CP. Any contravention of these requirements will be considered a breach of contract.

10.1.2 The Contractor and Contractor Personnel shall report fit to work and remain fit for work as scheduled and when on scheduled call and be able to perform their duties free from the negative effects, including the after effects of alcohol, legal recreational cannabis, illicit or illegal drugs, other mood altering substances or medications including medical marijuana, any of which can have the potential to adversely affect the way a person thinks, feels or acts.

10.1.3 It is prohibited to be in control of a CP vehicle or moving equipment (either on or off duty), while under the influence of alcohol and/or drugs, including the after effects of such use.

10.1.4 All Contractors must comply with these requirements when scheduled on call and/or subject to duty.

10.1.5 If there are grounds to believe a contract worker is unfit for work, the worker will be removed from CP property in a safe manner under the care of another adult person, to a safe place for example, to their local place of residence, or provided the opportunity to arrange the same or an escort is arranged to the nearest appropriate medical facility if there is a medical problem that requires immediate attention. The primary contractor is required to ensure appropriate investigation, follow up and a fitness for duty assessment is conducted to ensure the contractor

is fit to return to work prior to any return to CP property or work. CP reserves the right not to allow a contractor back on CP property or to CP work.

10.1.6 In the event a contract worker is directly involved in a significant work related incident as described by CP's Alcohol and Drug Policy and Procedure, the worker may be subject to Post Incident Testing under the CP Testing Program. They may be removed from CP premises pending the results of the investigation, including receipt of alcohol and drug testing results. Depending on the test results and the outcome of the investigation, a fitness for work medical assessment may also be required through the primary contractor before the Contractor can return to CP premises or work. CP reserves the right not to allow a contractor back on CP property or to CP work.

10.1.7 CP reserves the right to request drug and alcohol testing for Contractor Personnel performing Safety Critical and Safety Sensitive duties under CP's workplace testing program requirements as and where permitted by law.

10.2 Inappropriate Behavior

10.2.1 CP is committed to maintaining a Work environment that supports the dignity of all individuals. No person working at CP may be subjected to any form of discrimination or harassment, including sexual harassment.

10.2.2 Acts or threats of violence are unacceptable at all times on CP Property. Uttering of threats or committing acts of violence will result in the removal of the responsible Contractor Personnel from CP Property, termination of the Contract, and/or criminal charges.

10.2.3 Horseplay, practical jokes, fighting or any other activity that may create a safety hazard will not be tolerated.

10.2.4 Inappropriate language directed at any CP employee or agent of CP, will not be tolerated.

10.3 Electronic Entertainment and Communication Devices

10.3.1 The use of personal entertainment devices, including portable audio and video devices such as compact DVD, CD, video game players, tablets, SMART watches and MP3 players, is prohibited:

(a) while working on CP Property;

(b) while transporting CP personnel, whether on and off CP property; and

(c) while operating any CP highway vehicles, Railroad Equipment or Mobile Equipment, when on and off CP property

10.3.2 The use electronic communication devices, including cell phones, Smart Phones, Blackberries, walkie-talkies, PDAs, iPads, tablets, GPS navigation units, portable computers and similar devices, is prohibited:

(a) while operating a highway vehicle, unless it is stopped and parked in a safe location;

(b) while operating or assisting in the operation of any railroad equipment or mobile equipment;

(c) while operating power tools, equipment or machinery;

(d) when Foul of Track for any reason;

(e) whenever use of such a device creates an unsafe condition.

10.3.3 Notwithstanding the foregoing, company cell phones, radios, walkie-talkies, GPS units, iPads, tablets, and other communication devices may be used solely for the conduct of business when authorized by the CP Manager-in-Charge and where not prohibited by state or municipal legislation. Any electronic communication device may be used when it is necessary to communicate an emergency condition.

10.4 Smoking

10.4.1 Smoking, including the use of e-cigarettes is prohibited on all CP Property, and in or on all highway vehicles, Railroad Equipment, and Mobile Equipment, except for CP designated outdoor smoking areas.

11 Personal Protection

11.1 Work Clothing

11.1.1 The Contractor must ensure that Contractor Personnel wear clothing that meets Applicable Legislation and is suitable to perform the Work safely. This includes at minimum ankle length pants and waist length shirts with a minimum quarter-length sleeves at all times. Clothing must not interfere with vision, hearing or use of hands and feet.

11.2 Personal Protective Equipment (PPE)

11.2.1 The Contractor shall ensure that Contractor Personnel wear personal protective equipment required by Applicable Legislation, regulations, codes and industry standards as necessary to protect against personal injuries while on Railway property. All personal protective equipment shall be approved by the Canadian Standards Associations (CSA) or by the American National Standards Institute (ANSI), and shall be in good condition and be properly fitted.

11.2.2 The following mandatory personal protective equipment ("PPE") shall be supplied by the Contractor at its own expense, and shall be worn at all times by Contractor Personnel while on CP Property:

(a) safety hard hat, meeting CSA standard Z94.1 or ANSI 89.1 standards;

(b) safety boots with protective toe caps and soles, meeting CSA standard, Z195 (Green Triangle - Grade 1);

(c) safety glasses with permanently attached side shields, meeting CSA standard Z94.3;

(d) high visibility fluorescent outerwear with retro reflective striping (meeting CSA standard Z96, class 2 level 2), with such high visibility fluorescent outwear not covered by other clothing or equipment, except where necessary for safety reasons such as where fall protection or pole climbing equipment is being used; and

(e) any other PPE as required by Applicable Legislation, CSA standard, or otherwise required to protect Contractor Personnel from injuries.

11.2.3 In addition to the foregoing minimum requirements, the following table contains further recommendations in relation to specific types of PPE:

Type of Protection	Additional Recommendations
Hard Hats	Have hi-visibility characteristics which are not obscured by markings or decals
Safety Eye & Face Protection	Tinted safety eyewear must meet Canadian standards for red signal recognition if operating railway equipment (safety eyewear meeting this requirement is available from Acklands-Grainger; ask for CP approved tinted safety eyewear) Transition lenses are discouraged and should be worn with caution when working in changing light conditions Personal sunglasses are discouraged and must not be worn when operating railway equipment Wear mesh face shields over top safety glasses when using any striking tool while performing on track maintenance work (e.g. spiking, snapping on/off anchors, etc.). If working alongside CP employees you will be required to comply with this practice.
Safety Footwear	Have defined heels Be laced and tied securely for ankle support When snow and ice conditions are present wear anti-slip winter footwear
High-Visibility Apparel	Lime-green is recommended when working on, or near tracks, or when performing Co-mingled Work

11.2.3 Contractor and Contractor Personnel shall be solely and fully responsible for assessing the risks related to the Work and determining whether additional PPE may be required such as:

(a) Nomex or Proban fire-retardant protective gear when performing certain TDG Work and or handling certain Hazardous Materials or performing specialized Work.

(b) hearing protection when working in any area where noise exposure levels:

(i) are consistently greater than 84 dBA) ;

(ii) exceed 115 dBA at any time; and

(iii) any other Work areas where posted, or so notified by CP management.

(c) respiratory protection where Contractor Personnel may be exposed to occupational dusts/particulates, fumes, mists, gases and vapors, in which case, in which case Contractors must have a written Respiratory Protection Program that meets or exceeds Applicable Legislation;

(d) additional eye and face protection meeting CSA standard Z94.3 (i.e. face shields, impact/splash goggles, welding/cutting goggles and welding helmets); and

(e) fall protection systems and equipment meeting appropriate CSA standards as required by Applicable Legislation and appropriate for the related fall hazards.

(f) fall protection when working on an unguarded surface over water, where the water is deeper than 1.2 meters (4 feet), or where there is a hazard of drowning due to terrain, winter conditions, water velocity or current; contractors must use a fall protection system or a personal floatation device (PFD) meeting approved standards.

12 Railroad Track Protection

Contractor's Responsibilities for the Protection of Railroad Traffic and Property

12.1.1 Where the Work Site is in close proximity to, or is located on, above, or below railroad tracks, special attention, care and precautions shall be taken to ensure the safety of all Contractor Personnel, CP Personnel, all other third parties and to protect CP's property and railroad operations.

12.1.2 Contractor shall ensure that Contractor Personnel is made aware of all unique and inherent hazards in working near, on, above or below railroad tracks and shall ensure that all Contractor Personnel are fully trained and equipped to work safely.

12.1.3 Contractor Personnel shall at all times remain alert to the movement of trains, rolling stock and other Railway equipment.

12.1.4 No temporary structure, materials, or equipment shall be permitted closer than 3.66 meters (12 feet) to the nearest rail of any track without prior approval in writing of the Manager-In-Charge.

12.1.5 Contractor Personnel shall be especially alert in yards and terminal areas as

(a) Railway equipment that appears to be stationary may be moving;

(b) the rate of movement of Railway equipment may be faster than it appears;

(c) Railway equipment change tracks often; and

(d) movements may be occurring simultaneously on adjacent tracks

12.1.6 The Contractor shall, at all times, conduct its operations in a wholly responsible manner to avoid damage to CP's tracks or property.

12.2 15 m (50 ft.) Clearance Requirement

12.2.1 All work shall be performed as far away from railway tracks as possible.

12.2.2 Unless authorized by CP, Contractor Personnel, equipment, and vehicles are not permitted within 15 m (50 ft.) of the closest track centerline.

12.2.3 In the event work must be carried out within 15 m (50 ft.) of the closet track centerline, written authorization must be obtained from the Manager-in-Charge, and Contractor Personnel must still remain at the maximum practicable distance from all railway tracks at all times.

12.2.4 When crossing tracks, Contractor Personnel shall ensure a minimum of 15 m (50 ft.) separation between standing Railway equipment, stay at least 15 feet away from the end of the nearest equipment, and look both ways before crossing tracks, and if clear, walk at a right angle to the tracks. The 15 meters (50 feet) distance must take in account the swing radius of work equipment, vertical grade differences, and overhead work distances.

12.2.5 No work activities or processes are allowed within 15 m (50 feet) of the track while trains are passing through the work site unless specifically authorized.

12.3 Flagging Protection

12.3.1 When the Work requires Contractor Personnel to be within 15 m (50 ft.) of any railway tracks, Contractor or Contractor Personnel shall notify and obtain the written approval of the Manager-in-Charge in advance of the intended start date, and when approved, shall only perform Work strictly in accordance with all terms and conditions of that approval.

12.3.2 Unless otherwise indicated by the Manager-in-Charge, proper protection against the movement of trains, rolling stock and other Railway equipment shall be deemed required at all times

whenever Work or Contractor Personnel must be within 50 feet (approximately 15 metres) of the closet track centerline. Protection may be provided only by a qualified CP employee through use of a flag person, Canadian Railway Operating Rules (CROR) Track Occupancy Protection (TOP), mechanical blue flag protection or other protection methods designated by the Manager-in-Charge.

12.3.3 Where CP determines that flagging is required, then Work must be strictly conducted under the direction of a CP flag person or such other person designated by the Manager-in-Charge.

12.3.4 Contractor Personnel shall ensure that there is clear communication at all times between Contractor Personnel and any CP flag person. Contractor Personnel shall ensure that they are aware of:

(a) flagging distance limits;

(b) time limits; and

(c) any adjacent tracks where movement of Railway equipment may still occur.

12.3.5 Contractor Personnel shall not assume that a train movement is being stopped or cleared unless clear communication is received directly from the CP flag person.

12.3.6 A job safety briefing between the CP flag person and all Contractor Personnel must occur before beginning any Work on or Foul of Track, or within CP's ROW depending on the nature of the site.

12.3.7 Blue flag protection is used to indicate that CP or Contractor Personnel are working on, under or between Railway equipment and movement of trains or other Railway equipment is prohibited. Blue flags must not be tampered with or obstructed. Blue flags can only be removed by the person or group of persons who originally applied it. Application, use, and removal of blue flags, when appropriate, may only be done under the authorization and guidance of the Manager-in-Charge.

12.3.8 Red flag protection is used to indicate that CP or Contractor Personnel are working on or Foul of Track, or the track is out of service and movement of trains or other Railway equipment is prohibited. Red flags must not be tampered with or obstructed. Application, use, and removal of red flags, when appropriate, may only be done under the authorization and guidance of the Manager-in-Charge. Similarly, as with all other flags; blue, yellow and green flags.

12.4 Working on or near Tracks

12.4.1 When authorized to perform Work Foul of Track or otherwise be near railway tracks, Contractor Personnel shall ensure at Contractor Personnel, equipment, and vehicles are kept as far away from railway tracks as practicable, and shall at all times:

(a) be alert to train movements and shall expect the movement of trains, engines, cars, or other mobile Railway equipment at any time, on any track, and in any direction, even if they appear to be stationary or in storage;

(b) not rely on others to protect them from train movement;

(c) stay at least 15 feet (approximately 5 meters) away from the ends of stationary railway equipment when crossing the track;

(d) ensure a minimum of 50 feet (approximately 15 meters) separation prior to crossing between railway equipment;

(e) look both ways before crossing tracks, and if clear, walk at a right angle to them.

(f) never climb on, under or between railway equipment;

(g) be aware of the location of structures or obstructions where track clearances are close;

(h) not stand on the track in front of an approaching engine, car or other equipment;

(i) when possible, stand at least 20 feet back from the track(s) when there is a passing movement of trains, engines, cars, or other mobile Railway equipment, to prevent injury from flying debris or loose rigging and shall observe the train as it passes and be prepared to take evasive action in the event of an emergency;

(j) not stand on or between adjacent tracks in multiple track territory when a train is passing;

(k) not walk, stand or sit on the rails, between rails or on the end of ties, unless absolutely necessary. As the rail surface can be extremely slippery, personnel must step over the rails when crossing tracks. Personnel shall also be aware railway ties can also be slippery and that railway ballast can shift while walking on top of it. Situational awareness and use of proper footwear is important;

(l) not remain in a vehicle that is within 15.2 meters (50 feet) of a passing train unless specifically authorized, or where this is not possible, park the vehicle as far away from the tracks as possible and walk to as safe a distance whenever trains pass.

(m) keep away from track switches as remotely operated switch points can move unexpectedly with enough force to crush ballast rock. Personnel shall stay away from any other railway devices they are unsure of. Personnel shall not disturb or foul the ballast at any time.

(n) Third party work that has a potential to impact rail traffic must take into account machine swing radius, vertical grade differences, overhead work, etc to ensure it will not impact a passing train; work and equipment must maintain a distance of 15.2 meters (50 feet) of a passing train.

(o) When exiting on track machinery as trains are passing; exit on the opposite side.

(a) use 3-point contact when getting on/off any vehicle, equipment or track unit;
(b) face the vehicle or equipment/track unit when getting on/off
(c) place handheld items onto equipment/track unit or seek help prior to getting on/off
(d) get on/off on the operators side when possible

12.5 Equipment on or near tracks

12.5.1 Contractor Personnel shall not be Foul of Track with any piece of equipment without a CP flag person or other authorized track protection;

12.5.2 Contractor Personnel shall not move equipment across the tracks except at established road crossings, or unless under the protection and authorization of a CP flag person and only if the Work Site has been properly prepared for such a move. Tracked equipment will require a CP flag person any time railroad tracks are crossed.

12.5.3 Contractor Personnel shall not move equipment across railroad bridges or through tunnels, except as expressly authorized and only under such conditions as stipulated by the Manager-in-Charge.

12.5.4 Contractor Personnel shall move equipment away from the tracks at least 50 feet, or where not possible, park the equipment as far away from the tracks as possible, and walk to a safe distance whenever trains pass.

12.5.5 Buckets, shovels, and loads on cranes must be lowered to the ground to rest, and cranes without a load must have their load line tightened or retracted to prevent movement, whenever there are passing trains.

12.6 Railway Signs, Signals, Flags and other Communication Infrastructure

12.6.1 Signs, signals and flags shall not be obstructed, removed, relocated, disabled or altered in any way without proper authorization and qualification.

12.6.2 Only qualified Contractor Personnel who are authorized by CP are permitted to operate switches, derails, electric track mechanisms, signal and communication systems or other track control appliances.

12.6.3 Railway pole lines carry electric power and should be treated as any other power lines.

12.6.4 The Contractor shall keep all Contractor Personnel informed of current weather conditions.Personnel shall stay alert for possible high water conditions, or flash floods. During severe weather conditions:

a) Personnel shall be prepared to take cover in the event of a tornado;

b) Personnel shall not work while lighting is occurring;

c) If storm conditions arise unexpectedly, Contractor Personnel shall ensure that equipment is in the clear of the tracks and secured before seeking cover. Contractor Personnel shall stay away from railroad tracks when visibility is poor, such as during fog or blizzard conditions.

Any Contractor personnel discovering a hazardous or potentially unsafe condition, which may affect the safe passage of railway traffic, must advise CP Police immediately by calling the CP Police Communications Centre – 1-800-716-9132

Excavation

12.7.1 Before starting excavation operations, the Contractor shall ascertain that there are no underground wires, fiber optic cables, pipelines or other utilities which could be damaged or, if present, that such installations are properly protected. Fiber optic cables are present on most segments of the right-of-way. Prior to commencing any excavation, the Contractor shall contact the proper authority to obtain the necessary permit and to locate and protect such cables or other underground utilities.

12.7.2 Excavations shall not be left unattended unless they are properly protected; and the Manager-in-Charge shall be notified.

12.7.3 Contractors MUST obtain and maintain utility locates in accordance with applicable law.

13 WHMIS

13.1.1 If at any time Contractor's Work involves the use, handling, storage, or disposal of Hazardous Materials ("Handling of Hazardous Materials"), Contractor Personnel must inform the Manager-in-Charge.

13.1.2 Contractors shall ensure that all Contractor Personnel are fully trained in the Handling of Hazardous Materials and that Contractor and Contractor Personnel are in full compliance with all Applicable Legislation, and as directed by the Manager-in-Charge.

13.1.3 Contractor Personnel shall have appropriate processes, systems and controls in place to prevent or otherwise mitigate potential environmental, health and safety risks associated with the Handling of Hazardous Materials.

13.2 Access to Safety Data Sheets (SDS)

13.2.1 Prior to beginning any Work that may expose CP Personnel to Hazardous Materials, Contractor or Contractor Personnel shall:

(a) provide a copy of the respective Safety Data Sheet (SDS) to the Manager-in-Charge; and
(b) keep a copy of the SDS at the Work Site and shall such that it is readily available at all times.

13.3 Hazardous Material Incident or Spill

13.3.1 In the event of a hazardous material incident or spill, the Contractor must:

(a) ensure that no Contractor or CP Personnel have or will be exposed;
(b) take all reasonable actions to contain the spill;
(c) respond in accordance with its emergency response plan; and
(d) notify CP immediately in accordance with Section 18.

14 Operation of Highway Vehicles

14.1 Highway Vehicles

14.1.1 The following requirements apply to all highway vehicles, when operated on CP Property; or used to transport CP Personnel.

14.2 Regulations and Inspection

14.2.1 Before using a highway vehicle, Contractor Personnel shall:

(a) complete a pre-trip inspection;

(b) maintain an inspection log;

(c) ensure periodic inspections are completed at official testing locations as required;

(d) ensure the vehicle is maintained and in safe operating conditions at all times; and

(e) ensure the vehicle is in compliance with applicable motor vehicle regulations and license requirements.

14.2.2 Vehicle maintenance, inspection records and logs must be made available to the Manager-in-Charge on request.

14.3 Vehicle Operator Requirements

14.3.1 Operation of highway vehicles is restricted to those Contractor Personnel who are licensed, qualified and authorized to do so. Such Contractor Personnel shall be responsible for the safety of all passengers at all times. For greater certainty, such Contractor Personnel shall:

(a) hold a valid license for the class of vehicle being operated, in accordance with applicable local, state and federal requirements, and
(b) strictly comply with all posted traffic signs, signals, and all shall obey all Applicable Legislations; and
(c) maintain the required driver log, and make the log available to the Manager-in-Charge on request, and
(d) comply with the requirements on the use of electronic devices as set out in Section 10 above.

14.4 Driving on CP Property

14.4.1 In addition to the requirements set out above, while on CP Property, Contractor Personnel shall:

(a) travel only on designated roadways unless otherwise instructed;

(b) keep daytime running lights on (if so equipped);

(c) not exceed 15 mph unless otherwise posted;

(d) come to a full stop at all blind corners, rail and roadway crossings;

(e) yield the right of way to all Mobile Equipment and other non-highway equipment or service vehicles;

(f) not operate vehicles (or any internal combustion equipment) inside buildings or enclosed structures unless adequate ventilation is provided;

(g) not park Foul of Track unless on-track protection is provided;

(h) not leave vehicles running unnecessarily;

(i) park only in pre-determined or designated areas;

(j) always use the parking brake (or wheel chocks) when leaving an unoccupied vehicle running;

(k) prior to operation of a vehicle the driver must conduct a walk around of the vehicle to identify any obstacles, clearance restrictions, or adjacent vehicles that may interfere with executing a safe movement.

(l) where safe and practicable, pull vehicles through or back into marked parking spaces to avoid reverse collisions when exiting.

(m) If a passenger is present, he exit the vehicle prior to a reverse movement to provide guidance and direction to the driver during the reverse movement and applies to commercial vehicles and vehicles with restricted rear views

14.4.2 All Contractor Personnel who will be operating a highway vehicle or Mobile Equipment in any CP intermodal facilities must complete a Driver Safety Orientation program prior to first entry, and from time-to-time thereafter as directed by the Manager-in-Charge.

14.5 Seat Belts

14.5.1 Seat belts must always be worn while operating or riding in any equipped vehicle unless Contractor Personnel is actively engaged in inspections requiring said Contractor Personnel to be free of such restraint, and then only when the vehicle is operating at less than 25 km/h.

14.6 Loads

14.6.1 Contractor Personnel shall ensure vehicles are loaded according to weight and dimensional requirements as authorized by state regulations and permits, and properly load and secure tools, material, equipment and freight to avoid shifting, falling, leaking or otherwise escaping from vehicles during operation.

14.7 Riding in CP Vehicles

14.7.1 Contractor Personnel are prohibited from operating or riding in any CP vehicles unless authorized to do so, or in case of emergency.

15 Tools, Equipment and Machinery

15.1 General Safety Requirements Respecting All Tools, Equipment and Machinery

15.1.1 Contractor Personnel shall ensure that all tools, equipment, and machinery used be:

(a) in compliance with all applicable legislation;
(b) in good working order, properly serviced and maintained;
(c) safe for their proposed use and used only for purposes specified by the manufacturer;
(d) operated and maintained only by persons properly trained and qualified for that duty;
(e) seat belts (if present on equipment) must be worn while operating or riding any such equipped mobile equipment;
(f) if mobile, equipped with appropriate safety devices (e.g. lights, horns, back-up alarms, safety beacons), and prevented from moving through use of the hand brake, wheel blocking, wheel chocking and/or a derail where applicable.

15.1.2 The Contractor shall provide adequate lighting when performing work between sunset and sunrise.

15.1.3 Use of CP tools, equipment and machinery by Contractor Personnel is prohibited unless specifically authorized by local CP management.

15.2 Hazardous Energy Control- Lockout/Tagout

15.2.1 Contractor Personnel shall employ such hazardous energy lockout/tagout procedures as required to eliminate the accidental or unexpected start-up, energizing, or release of stored (residual) energy during maintenance, repair and/or servicing activities.

15.2.2 All tools, equipment and machinery must be made safe and isolated from all energy sources rendering the machine, equipment, or process inoperative prior to performing maintenance, repair or servicing related tasks.

15.2.3 No Contractor Personnel can remove any CP applied lock or tag, including bad-order tag.

15.2.4 Notwithstanding the foregoing, if Contractor's Work may create an energy hazard to any CP Personnel, then all affected parties must follow the requirements set forth in CP's Lockout – Hazardous Energy Control Policy and Code of Practice.

15.2.5 If CP Personnel and Contractors are jointly performing maintenance, repair or servicing activities on the same machine, equipment or using the same energy source, then they must apply a multi-

lock hasp and individual locks and tags (as per CP's Lockout – Hazardous Energy Control Policy and Code of Practice).

15.3 Electrical Safety Requirements

15.3.1 In addition to the hazardous energy control lockout requirements above, all electrical Work must comply with Applicable Legislation, CSA and National Fire Protection Association (NFPA) requirements.

15.3.2 Contractor Personnel Working on electrical systems must:

(a) if in proximity to CP Personnel, inform them of:

(i) existing or potential electrical hazards;
(ii) any specific additional personal protective equipment that may be required;
(iii) applicable safe Work practices;
(iv) applicable emergency and evacuation procedures; and
(v) apply lock out procedures as per section above on Hazardous Energy Control-Lockout

(b) have practices, procedures and training that comply with:

(i) applicable sections of CSA-Z462 Workplace Electrical Safety Standards;
(ii) Canadian Electrical Code Parts 1 and 2; and
(iii) any other Applicable Legislation

(c) not operate or allow cranes or other mobile equipment to approach closer to any live electrical power line than is permitted by CSA Z150 Standards for mobile cranes.

15.4 Lifting Devices

15.4.1 All lifting devices, including but not limited to jacks, cranes, cables, slings, chains and hooks shall:

(a) meet Applicable Legislation governing design, inspection, maintenance and operation;
(b) be safety certified and labeled or tagged with load capacity limits where required;
(c) have sufficient capacity for the planned lift;
(d) have sufficient footing or support area to properly distribute the load during a lift.

15.5 Welding and Torch Cutting

15.5.1 When welding or torch cutting, Contractor Personnel shall:

(a) be properly trained and qualified;
(b) ensure that all closed containers have been properly purged;
(c) direct flame or sparks away from other Workers, equipment and flammable material;
(d) have a fire extinguisher readily available;
(e) keep compressed gas and oxygen cylinders stored in a secure, vertical position, with regulators removed and caps applied, labeled properly and located in vented cabinets or other designated locations.

15.6 Explosive Actuated Tools

15.6.1 Only Contractor Personnel who are qualified and licensed in accordance with Applicable Legislation, and authorized by CP, may use explosives or explosive actuated tools.

15.7 Unattended Equipment or Machinery

15.7.1 Tools, Equipment and Machinery shall not be left unattended at any time and shall not be stored on CP Property, unless expressly permitted pursuant to a written agreement with CP or by the Manager-in-Charge in writing, and where so permitted, Contractor shall ensure that:

(a) storage shall be restricted to the designated area, or as otherwise specified by CP.
(b) all such tools, equipment and machinery shall be secured in a safe position well clear of all tracks to prevent accidental contact with trains and moving equipment and to not restrict train crew sightlines;
(c) as much as possible, tools, equipment and machinery shall be stored in locations out of public view.
(d) Machines must be secured in accordance with on-track machinery rules.

16 Emergency Response

16.1 Emergency Response Plan

16.1.1 The Contractor must maintain a current emergency response plan and make it available to CP on request. Emergency response plans must include at a minimum:

(a) contractor reporting procedures in the event of an incident or spill;
(b) emergency response contacts and phone numbers, including phone numbers for CP incident reporting and local CP managers (See Attachment A); and
(c) containment measures to be taken in the event of an incident or spill.

16.2 Initial Response

16.2.1 Initial response to any emergency condition must follow the following sequence:

(a) Protect the safety and security of all individuals and communities
(b) Provide environmental protection and mitigation
(c) Conduct incident investigation and evidence preservation
(d) Restore railroad operations

16.3 First Aid

16.3.1 Contractor Personnel must have sufficient First Aid qualified personnel and the required First Aid kit and any other required First Aid equipment at the Work Site, suitable for the crew size, nature of Work being performed and location, all of which shall, at a minimum, comply with Part II of the Canada Labour Code.

16.4 Fire Protection

16.4.1 The Contractor must have appropriate fire extinguishers, suitable in type, size and quantity having regards to the nature of Work and Applicable Legislation, readily available at all times on:

(a) the Work Site; and
(b) all Contractor equipment, machinery and highway vehicles.

16.4.2 Contractor Personnel shall ensure that all necessary precautions are taken to prevent fires, including the following:

(a) storing flammable material (e.g., paper, rubbish, sawdust, oily or greasy rags, etc.) in proper containers;

(b) storing and transporting fuel, gasoline or other flammable liquids in approved containers. Use of unapproved containers is prohibited;

(c) proper disposal of flammable material daily;

(d) preventing static electricity when dispensing or transferring flammable liquids by using proper grounding and bonding techniques;

(e) avoid using cutting or welding torches during the last one-half hour of shifts, if possible;

(f) taking special precautions with fusees, including:

(i) store and transport in approved containers;
(ii) do not allow fusees to come in contact with any combustible material, including railroad ties or wooden timbers; and
(iii) fully extinguish fusees before leaving the location where used;

(g) promptly advise CP management of any fire on CP Property; and

(h) fully extinguish or provide protection for any fire prior to leaving the Work Site.

16.4.3 Contractors Working on the CP right-of-way where a high risk of fire exists (e.g., during rail grinding, rail welding) must have:

(a) appropriate fire prevention and suppression plans (including emergency numbers for CP, local firefighters and fire control districts); and

(b) additional firefighting equipment and trained Contractor Personnel on site, as required by Applicable Legislation or the Manage In Charge.

17 Confined Space

17.1 Confined Space

(a) Qualified and authorized Contractor Personnel must follow all required confined space entry procedures in accordance with applicable legislation and standards prior to entering into a confined space.

(b) Rescue procedures and equipment must readily available when required to enter a confined space.

18 Reportable Accidents, Incidents and Injuries

18.1 Reportable Injuries

18.1.1 Reportable injuries include any personal injury to:

(a) Contractor Personnel;
(b) any CP Personnel; or
(c) to any third party on CP Property.

18.2 Reportable Accidents

18.2.1 Reportable accidents include any occurrence that results in:

(a) damage to railroad tracks, right of way, buildings or other CP Property;
(b) damage to railroad equipment;
(c) damage to CP highway vehicles;
(d) release or potential for release of hazardous material;
(e) damage to a container, spill or loss of transported commodities; and
(f) any threat to the environment.

18.3 Reportable Incidents

18.3.1 Reportable incidents include:

(a) unintended movement of railroad equipment;
(b) failure to provide track protection for Workers when required;
(c) movement of railroad equipment beyond authorized limits;
(d) operation of railroad equipment by an unqualified person;
(e) unauthorized handling of a track switch;
(f) damage, vandalism or tampering with any railroad signals, structures or railroad safety device;
(g) seepage, leakage, spills of, or other contamination from, Hazardous Materials;
(h) actual, threaten or suspected security related incidents;
(i) slides, washouts or other on-track obstructions; or
(j) any occurrence that may disrupt the movement of trains or affect safe rail operations.

19 Reporting

19.1 Emergency Reporting

19.1.1 In the case of an emergency, Contractor Personnel must call:

(a) 911, where this emergency response system exists, or
(b) the local police, fire or emergency department in all cases; and
(c) **CP Police Services Communication Center**- **1-800-716-9132**.

19.2 Accident, Incident, Injury Reporting

19.2.1 When an accident, incident or injury occurs on CP Property, the Contractor must:

(a) immediately report it to the

(i) **CP Police Services Communication Center 1-800-716-9132**; and
(ii) **CP Manager-in-Charge**

(b) follow all instructions given to protect the scene.

19.2.2 CP does not report Contractor Personal Injuries to WCB. Such WCB reporting remains the Contractor's responsibility.

19.3 Information to Report

19.3.1 Information required with the initial report includes:

(a) type of incident;
(b) date and time of occurrence;
(c) location (mileage, subdivision, building, yard or other physical description);
(d) identity of person(s) involved or injured (company & name);
(e) description of any hazardous materials involved;
(f) type & unit number of any railroad equipment or vehicle involved;
(g) description of occurrence, damage and/or injury, and cause if known;
(h) description of any emergency response;
(i) name and contact information of person making the report; and
(j) any such other information that CP may require.

19.4 Environmental Incidents and Spills

19.4.1 In the event of an environmental incident spill, leak or potential release of a hazardous material, the Contractor must immediately:

(a) immediately report the incident to:
(i) CP Police Services Communication Center 1-800-716-9132;
(ii) CP Manager-in-Charge,
(iii) Designated CP contact as per the governing agreement relating to the Work; and
(iv) Regulatory authorities that require notification related to the nature of the incident.

(b) follow all instructions given to protect the scene.

(c) take all reasonable actions to contain the spill;
(d) respond in accordance with its emergency response plan; and
(e) provide CP with the following information;
    (i) description of location and surrounding area, including any sensitive environmental areas nearby (e.g., rivers, parks, sewers);
    (ii) type and quantity of substance released;
    (iii) cause of spill or deposit, if known; and
    (iv) details of any immediate action taken or action proposed to be taken to contain spill and recover substance.
    (v) details of any external or regulatory agency reporting completed as a result of the incident.

19.5 Additional Contractor Requirements

19.5.1 Contractor and Contractor Personnel must:

(a) ensure an appropriate emergency response is initiated;
(b) protect any evidence until released by the CP Manager-in-Charge;
(c) cooperate fully with any CP investigation;
(d) cooperate fully with any investigating government agency; and
(e) notify CP if information is requested by any investigating government agency.

20 Contractor & Contractor Personnel Acknowledgement

Acknowledgement

20.1.1 Contractor and Contractor Personnel who Work on CP Property shall be deemed to have read and understood the content of these Minimum Safety Requirements for Contractors While Working on CP Property in Canada, as amended from time to time, and to agree to be bound by them.

20.1.2 These Minimum Safety Requirements for Contractors While Working on CP Property in Canada are subject to change without prior notice. The most current version of these Minimum Safety Requirements can be viewed at www.cpr.ca or by contacting the Manager-in-Charge.



Home Safe™ is a commitment to be vigilant about personal safety and the safety of co-workers.

NOTES:

21 **Attachment A - Emergency Information Sheet**

EMERGENCY CONTACT INFORMATION		
EMERGENCY CONTACTS	PHONE	LOCATION
CP Calgary Operations Center	1-800-795-7851	·
CP Police Services	1-800-716-9132	
CP Railroad Traffic Controller Radio Channel		
Manager-in-Charge		
Local Police Services		
Local Fire Services:		
Local EMS		
Hospital		
Physician		
Aircraft Service, (if applicable):		
Watercraft Service, (if applicable):		
Other Emergency Services		

Emergency Evacuation Route
(Describe nearest evacuation assembly location OR Provide sketch on back)

WORK SITE INFORMATION		
	PHONE	LOCATION
Work Site Location Name		
Railroad Subdivision & Mileage		
Address, Number and Street		
Nearest Town		
CP Manager-in-Charge		
Emergency Site Access Route (Describe route from nearest emergency services location in detail including access roads & physical landmarks OR provide sketch on back.)		
Contractor Supervisor		
Site Telephone		
Certified First Aid Attendant		
Location of First Aid Supplies at Site		
Location of Fire Extinguishing Equipment:		
Location of WHIMS data sheets		
UTILITY INFORMATION		
UTILITIES CONTACT	PHONE	LOCATION
Natural Gas:	( )	
Electrical:	( )	
Fiber Optic Line:	( )	
Water & Sewer:	( )	
Telephone:	( )	
Cable System:	( )	
Qualified employee(s) in:	( )	
Confined Space Entry, (if applicable):	( )	
Equipment requirements for Confined Space Entry, (if applicable):	( )	
Other:		

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NO. 2023-137

ZONING: A by-law to amend Sault Ste. Marie Zoning By-law 2005-150 concerning lands located at 16 Caesar Road (786211 Ontario Limited - Mario Adamo).

THE COUNCIL of The Corporation of the City of Sault Ste. Marie, pursuant to section 34 of the *Planning Act*, R.S.O. 1990, c. P.13 and amendments thereto, **ENACTS** as follows:

1. **16 CAESAR ROAD; LOCATED ON THE NORTH SIDE OF CAESAR ROAD AT THE INTERSECTION OF CAESAR ROAD AND ANGELINA AVENUE; CHANGE FROM R4 TO C4**

   The zone designation on the lands having civic address 16 Caesar Road shown as "Subject Property" on the map attached to this by-law, which property is shown on Map 21/1-20 of Schedule "A" to By-law 2005-150 is changed from R4 (Medium Density Residential) zone to C4 (General Commercial) zone.

2. **SCHEDULE "A"**

   Schedule "A" hereto forms a part of this by-law.

3. **CERTIFICATE OF CONFORMITY**

   It is hereby certified that this by-law is in conformity with the Official Plan for the City of Sault Ste. Marie authorized and in force on the day of the passing of this by-law.

PASSED in Open Council this 28th day of August, 2023

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

da LEGAL\STAFF\LEGAL\ZONING\2023\CAESAR ROAD, 16\2023-137 ZONING.DOCX



Application A-7-23-Z: Subject Property

Property Information

Civic Address: 16 Caesar Road
Roll No.: 010006066000000
Map No.: 21/1-20
Date Created: June 26, 2023

SAULT STE.MARIE

Planning and Enterprise Services

Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

Legal Department Reference

Schedule "A"

- Subject Property: 16 Caesar Road
- Area to be Rezoned
- Previously Rezoned
- Parcel Fabric

0 10 20 m
1:1,000
This map is for general reference only.

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NO. 2023-138

DEVELOPMENT CONTROL: A by-law to designate the lands located at 16 Caesar Road an area of site plan control (786211 Ontario Limited - Mario Adamo).

THE COUNCIL of The Corporation of the City of Sault Ste. Marie **ENACTS** as follows:

1. **DEVELOPMENT CONTROL AREA**

The lands described on Schedule "A" attached hereto are hereby designated to be an area of site plan control pursuant to section 41 of the *Planning Act*, R.S.O. 1990, c. P. 13 and amendments thereto.

2. **SITE PLAN POWERS DELEGATED**

The Council hereby delegates to the Planning Director or his/her designate for the City of Sault Ste. Marie, Council's powers to enter into a site plan agreement dealing with any of the works or matters mentioned in Section 41 of the *Planning Act* as amended, for the lands shown as Subject Property on the map attached as Schedule "A" to this by-law.

3. **SCHEDULE "A"**

Schedule "A" hereto forms a part of this by-law.

4. **PENALTY**

Any person who contravenes this by-law including the obligations pursuant to the agreement entered into under the authority of this by-law is liable upon conviction therefore to penalty provisions as contained in the *Planning Act* and the *Municipal Act, 2001.*

5. **EFFECTIVE DATE**

This by-law takes effect from the date of its final passing.

PASSED in open Council this 28th day of August, 2023.

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

da LEGAL\STAFF\LEGAL\ZONING\2023\CAESAR ROAD, 16\2023-138 DC.DOCX



Application A-7-23-Z: Subject Property

Property Information

Civic Address: 16 Caesar Road
Roll No.: 010006066000000
Map No.: 21/1-20
Date Created: June 26, 2023

SAULT STE.MARIE

Planning and Enterprise Services

Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

Legal Department Reference

Schedule "A"

- Subject Property: 16 Caesar Road
- Area to be Rezoned
- Previously Rezoned
- Parcel Fabric

0 10 20 m
1:1,000
This map is for general reference only.

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NO. 2023-139

ZONING: A by-law to amend Sault Ste. Marie Zoning By-laws 2005-150 and 2005-151 concerning lands located at 1281 Great Northern Road (CS Engineers – Tom Spriet).

THE COUNCIL of The Corporation of the City of Sault Ste. Marie, pursuant to section 34 of the *Planning Act*, R.S.O. 1990, c. P.13 and amendments thereto, **ENACTS** as follows:

1. **1281 GREAT NORTHERN ROAD; LOCATED ON THE SOUTHWEST CORNER OF GREAT NORTHERN ROAD AND FOURTH LINE EAST; CHANGE FROM HZ.S.160 TO HZ.S.160 AMENDED WITH A "SPECIAL EXCEPTION"**

   The zone designation on the lands described in Section 2 of this by-law, which lands are shown on Map 126/1-141 of Schedule "A" to By-law 2005-150, is changed from HZ.S.160 (Highway) zone with a "Special Exception" to HZ.S.160 Amended (Highway) zone with an amended "Special Exception".

2. **BY-LAW 2005-151 AMENDED**

   Section 2 of By-law 2005-151 is amended by repealing section 2(160) and adding the following subsection 2(160 Amended) and heading as follows:

   "2(160 Amended) 1281 Great Northern Road

   Despite the provisions of By-law 2005-150, the zone designation on the lands located on the southwest corner of Great Northern Road and Fourth Line East and having civic no. 1281 Great Northern Road and outlined and marked "Subject Property" on the map attached as Schedule 160 Amended hereto is changed from HZ.S.160 (Highway) zone with a "Special Exception" to HZ.S.160 Amended (Highway) zone with an amended "Special Exception" to, in addition to those uses permitted in an HZ zone:

   1. Permit Professional Scientific and Technical Services; and
   2. Waive the surface treatment requirements outlined in Zoning By-law 2005-150, Section 5.2.2 for the Professional Scientific and Technical Services parking only."

3. **SCHEDULE "A"**

Schedule "A" hereto forms a part of this by-law.

4. **CERTIFICATE OF CONFORMITY**

It is hereby certified that this by-law is in conformity with the Official Plan for the City of Sault Ste. Marie authorized and in force on the day of the passing of this by-law.

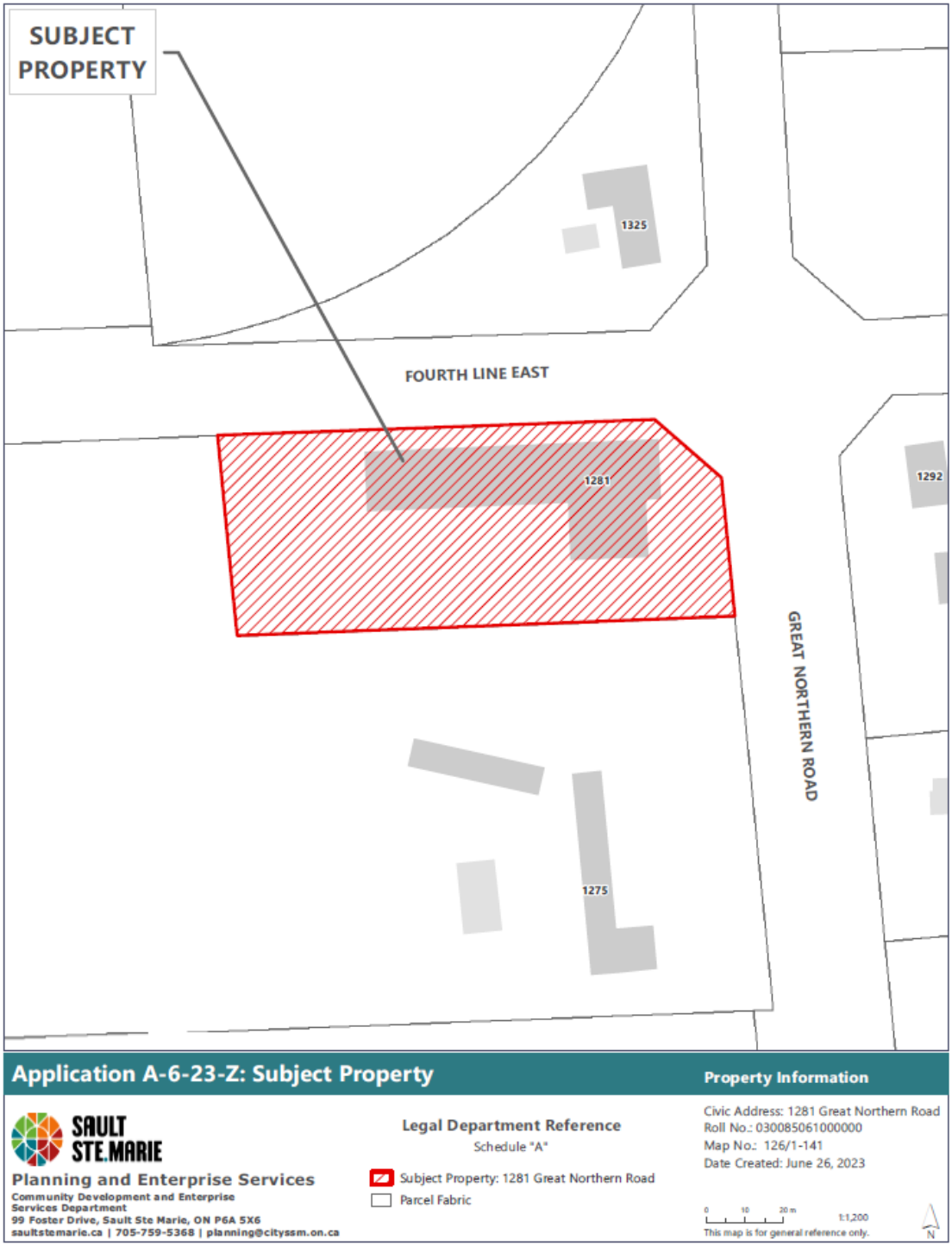
PASSED in Open Council this 28th day of August, 2023.

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

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SCHEDULE “A” TO BY-LAW 2023-139 AND
SCHEDULE 160 AMENDED TO BY-LAW 2005-151



THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NO. 2023-140

ZONING: A by-law to amend Sault Ste. Marie Zoning By-laws 2005-150 and 2005-151 concerning lands located at 92 Manitou Drive (Manitou Developments Inc. – Caicco/Jones/Nogalo/Zavitz).

THE COUNCIL of The Corporation of the City of Sault Ste. Marie, pursuant to section 34 of the *Planning Act*, R.S.O. 1990, c. P.13 and amendments thereto, **ENACTS** as follows:

1A. **LOTS 1 TO 12 OF THE SUBJECT PROPERTY**
92 MANITOU DRIVE; LOCATED ON THE EAST SIDE OF MANITOU DRIVE, APPROXIMATELY 47 METERS NORTH OF GREENE STREET; CHANGE FROM I TO R3.S

The zone designation on the lands described in section 2 of this by-law, which lands are shown on Schedule "A" to By-law 2005-150, is changed from I (Institutional) zone to R3.S (Low Density Residential) zone with a "Special Exception".

1B. **BLOCKS 1, 2 AND 4 OF THE SUBJECT PROPERTY**
92 MANITOU DRIVE; LOCATED ON THE EAST SIDE OF MANITOU DRIVE, APPROXIMATELY 47 METERS NORTH OF GREENE STREET; CHANGE FROM I TO R4.SH

The zone designation on the lands described in section 2 of this by-law, which lands are shown on Schedule "A" to By-law 2005-150, is changed from I (Institutional) zone to R4.SH (Medium Density Residential) zone with a "Special Exception" and Holding Provision.

1C. **BLOCK 3 OF THE SUBJECT PROPERTY**
92 MANITOU DRIVE; LOCATED ON THE EAST SIDE OF MANITOU DRIVE, APPROXIMATELY 47 METERS NORTH OF GREENE STREET; CHANGE FROM I TO PR
The zone designation on the lands described in section 2 of this by-law, which lands are shown on Schedule "A" to By-law 2005-150, is changed from I (Institutional) zone to PR (Parks and Recreation) zone.

2. **BY-LAW 2005-151 AMENDED**

Section 2 of By-law 2005-151 is amended by adding the following subsection 2(432) and heading as follows:

2A. **“LOTS 1 TO 12 OF THE SUBJECT PROPERTY**
2 (432) 92 Manitou Drive

Despite the provisions of By-law 2005-150, the zone designation on the lands located on the east side of Manitou Drive, approximately 47 metres north of Greene Street and having civic no. 92 Manitou Drive and outlined and marked “Subject Property” on the map attached as Schedule “A” hereto is changed from I (Institutional) zone to R3.S (Low Density Residential) zone with a “Special Exception” to, in addition to those uses permitted in an R3 zone:

a. Permit one parking space in an exterior side yard setback for Lot 3;
b. Reduce the front yard setback from 7.5 metres to 6 metres;
c. Reduce the rear yard setback from 10 metres to 9 metres; and
d. Reduce the required number of parking spaces from 1.25 to 1 space for any semi-detached dwelling unit.”

2B. **“BLOCKS 1, 2 AND 4 OF THE SUBJECT PROPERTY**
2 (432) 92 Manitou Drive

Despite the provisions of By-law 2005-150, the zone designation on the lands located on the east side of Manitou Drive, approximately 47 metres north of Greene Street and having civic no. 92 Manitou Drive and outlined and marked “Subject Property” on the map attached as Schedule “A” hereto is changed from I (Institutional) zone to R4.SH (Medium Density Residential) zone with a “Special Exception” and Holding Provision, subject to the following special exceptions:

a. Restrict the number of dwelling units to no greater than 20 units;
b. Restrict the height of any apartment building to no greater than 3 storeys;
c. As per the Holding Provision, restrict any development until such a time that a stormwater management plan and a servicing study are submitted to the satisfaction of City Council.”

3. **SCHEDULE “A”**

Schedule “A” hereto forms a part of this by-law.

4. **CERTIFICATE OF CONFORMITY**

It is hereby certified that this by-law is in conformity with the Official Plan for the City of Sault Ste. Marie authorized and in force on the day of the passing of this by-law.

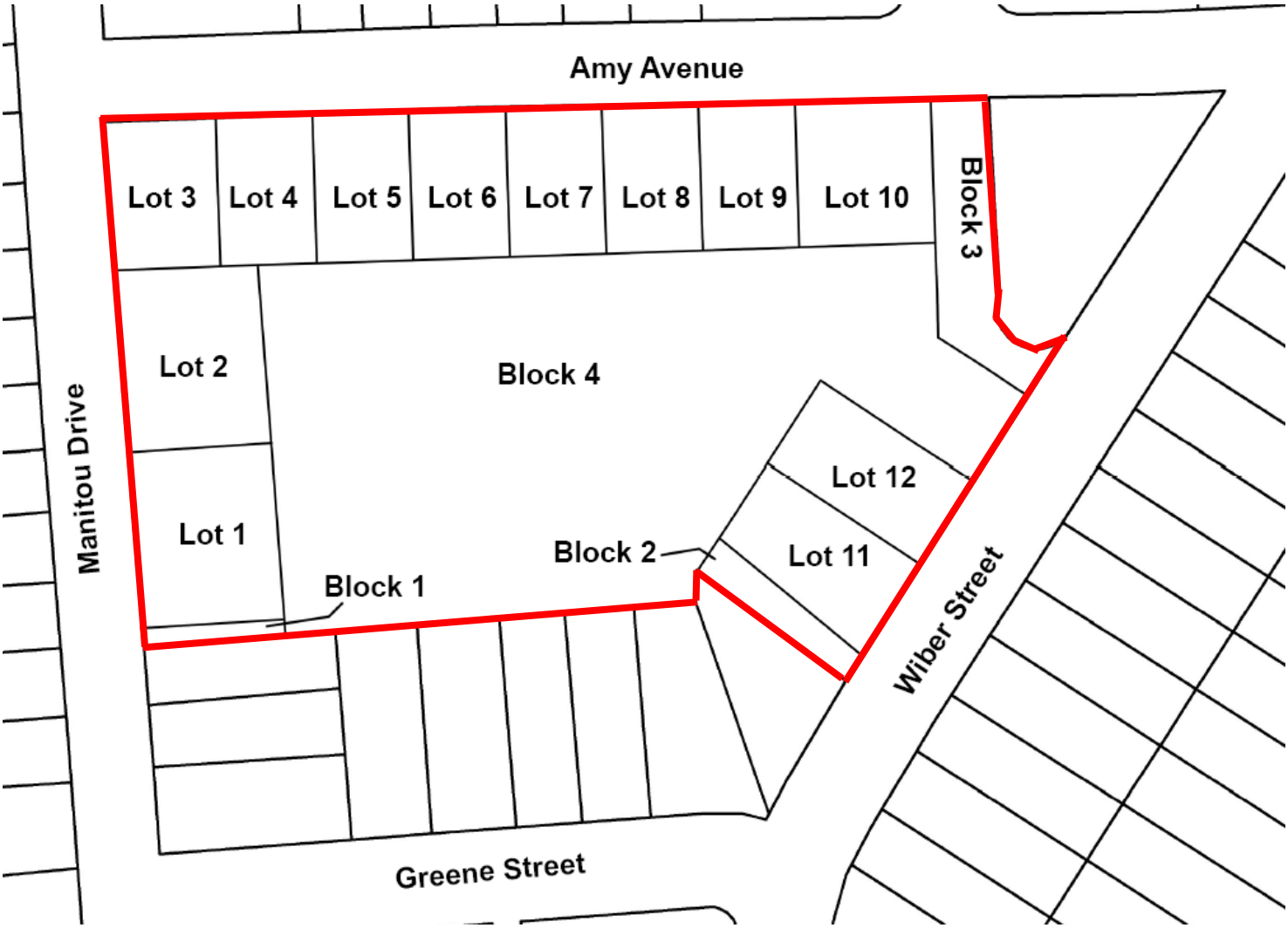
PASSED in open Council this 28th day of August, 2023.

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

LEGAL\STAFF\LEGAL\ZONING\2023\MANITOU DRIVE, 92\2023-140 ZONING BY-LAW.DOCX

SCHEDULE "A" TO BY-LAW 2023-140 AND
SCHEDULE 432 TO BY-LAW 2005-151



Application A-5-23-Z: Subject Property

Property Information

Civic Address: 92 Manitou Drive
Roll No.: 030002032000000

Legal Department Reference
Schedule "A"

SAULT STE. MARIE
Planning and Enterprise Services
Community Development and Enterprise Services Department
99 Foster Drive, Sault Ste Marie, ON P6A 5X6
saultstemarie.ca | 705-759-5368 | planning@cityssm.on.ca

This map is for general reference only.

N

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NO. 2023-142

BY-LAW ENFORCEMENT OFFICERS: A by-law to appoint by-law enforcement officers to enforce The Corporation of the City of Sault Ste. Marie Property Standards By-law as Property Standard Officers and enforce various other by-laws of The Corporation of the City of Sault Ste. Marie as By-law Enforcement Officer.

WHEREAS from time-to-time persons have been appointed by-law enforcement officers;

THEREFORE THE COUNCIL of the Corporation of the City of Sault Ste. Marie pursuant to section 15 of the *Police Services Act*, R.S.O. 1990, chapter p. 15 and amendments thereto, and pursuant to section 1 and 15.1 of the *Building Code Act*, 1992, S.O. 1992, c. 23 and amendments thereto **ENACTS** as follows:

1. **SCHEDULE "A"**

   Schedule "A" attached hereto names those authorized to enforce the Property Standards By-law and other various by-laws of The Corporation of the City of Sault Ste. Marie.

2. **EFFECTIVE DATE**

   This By-law takes effect on the day of its final passing.

PASSED in open Council this 28th day of August, 2023.

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

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SCHEDULE “A”

Francois Couture (Co-ordinator Plan Examinations)

Frank Bentrovato (Co-ordinator of Building Inspections)

Tyler Bertrand (By-law Enforcement Officer)

Carlee Spry (By-law Enforcement Officer)

Sai Kiran Chipalthurthi (By-law Enforcement Officer)

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW 2023-143

AGREEMENT: A by-law to authorize the execution of the Agreement between the City and FEDERATION OF CANADIAN MUNICIPALITIES (FCM) for the Greenhouse Gas (GHG) Reduction Pathway Feasibility Study initiative.

THE COUNCIL of The Corporation of the City of Sault Ste. Marie, pursuant to section 9 of the *Municipal Act, 2001*, S.O. 2001, c. 25, **ENACTS** as follows:

1. **EXECUTION OF DOCUMENT**

The Mayor and City Clerk are hereby authorized for and in the name of the Corporation to execute and affix the seal of the Corporation to the Agreement dated August 28, 2023 between the City and FEDERATION OF CANADIAN MUNICIPALITIES (FCM), a copy of which is attached as Schedule "A" hereto. This Agreement is for the GHG Reduction Pathway Feasibility Study initiative.

2. **SCHEDULE "A"**

Schedule "A" forms part of this by-law.

3. **EFFECTIVE DATE**

This by-law takes effect on the day of its final passing.

PASSED in open Council this 28th day of August, 2023.

MAYOR – MATTHEW SHOEMAKER

CITY CLERK – RACHEL TYCZINSKI

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FEDERATION OF CANADIAN MUNICIPALITIES FÉDÉRATION CANADIENNE DES MUNICIPALITÉS

GREEN MUNICIPAL FUND GRANT AGREEMENT
CBR-22-0001

This Grant Agreement is hereby made and entered into

BETWEEN:

FEDERATION OF CANADIAN MUNICIPALITIES, a not-for-profit corporation incorporated under the laws of Canada, acting as trustee of the Green Municipal Fund ("**GMF**"), and having a place of business at 24 Clarence Street, Ottawa, ON, K1N 5P3.

("**FCM**")

and

THE CORPORATION OF THE CITY OF SAULT STE. MARIE, an Ontario corporation and having a place of business at 99 Foster Drive, Sault Ste. Marie, ON, P6A 5X6.

("**Recipient**")

FCM and the Recipient shall be referred to individually as a "**Party**" and collectively as the "**Parties**".

The Agreement, including all the schedules described below, constitutes the entire understanding and agreement between the Parties ("**Agreement**") and supersedes all prior correspondence, offers, negotiations, agreements, or other communications between the Parties relating to the subject matter hereof, whether oral, written or electronic. No changes or modification to the Agreement shall be binding upon a Party unless in writing and signed by both Parties.

The Agreement will be effective commencing on the date of last signature below (**"Effective Date**") and shall end on May 2, 2026 ("**Term**") unless earlier terminated in accordance with the provisions of the Agreement.

The following Schedules are attached and incorporated in the Agreement by reference:

Schedule A – General Terms and Conditions
Schedule B – Eligible and Ineligible Costs Table
Schedule C – Recipient's Specific Terms and Conditions
Schedule D – Request for Contribution Template
Schedule E – Project Progress Report Template
Schedule F – Project Completion Report Template

In witness whereof, the Parties have executed the Agreement through their duly authorized officials.

FEDERATION OF CANADIAN MUNICIPALITIES	**THE CORPORATION OF THE CITY OF SAULT STE. MARIE**
Per:_____ Catherine Gardner, Director, Client and Funding Services, Green Municipal Fund	Per:_____ Mayor Matthew Shoemaker
Date:_____	Date:_____
	Per:_____ Rachel Tyczinski, City Clerk
	Date:_____

SCHEDULE A - GENERAL TERMS AND CONDITIONS

1. DEFINITIONS

Whenever used in the Agremeent and unless the context otherwise requires, the following terms have the following meanings:

"**Advanced Contribution**" means the first disbursement of the Grant Amount, disbursed in advance of the Recipient having incurred sufficient Eligible Costs to request reimbursement from FCM, as set forth in Schedule C to the Agreement;

"**Business Day**" means any day other than a Saturday, Sunday or statutory holidays in the Province of Ontario;

"**Confidential Information**" has the meaning ascribed thereto in Section 8.3 of this Schedule A;

"**Contribution**" means each individual disbursement of the Grant Amount, as set forth in Schedule C;

"**Eligible Costs**" means the costs described in Schedule B of the Agreement, for which the Recipient may use the Grant;

"**Expense Claim**" means the expense claim in the form of the Project Workbook;

"**FCM's Accessibility Guidelines**" means the FCM guidelines to be followed by the Recipient, or the consultant hired by the Recipient, when preparing the Project Progress Report(s), Project Completion Report and Final Deliverable, to ensure that such reports are accessible to people with disabilities;

"**Final Contribution**" means the last disbursement of the Grant Amount. In the event that the Recipient receives the Grant Amount in a single contribution, FCM will advance the Grant Amount through the Final Contribution;

"**Final Deliverable**" means a confirmation that the building monitoring and analysis system has been established, the final version of the plan or the final version of the report summarizing the results and activities undertaken in conducting the existing building commissioning, study or the pilot project, as applicable, as described in Schedule C;

"**GAAP**" means the generally accepted accounting principles for local governments as recommended, from time to time, by the Public Sector Accounting Board of the Canadian Institute of Chartered Accountants;

"**Material Change**" means any change to the description of the Project, forecasted Eligible Costs or particulars of the sources of funding, all as set forth in Schedule C;

"**Project**" means the plan, building monitoring and analysis project, existing building commissioning, feasibility study or pilot project, as applicable, as described in Schedule C;

"**Project Workbook**" means the form of electronic spreadsheet provided by FCM to the Recipient, as amended by FCM from time to time, to be completed when providing information updates or submitting a Request for Contribution to FCM; and

"**Request for Contribution**" means the request for Contribution, in the form of Schedule D.

2. GRANT

2.1 Grant Purpose - FCM is providing the Grant to the Recipient for the sole purpose of assisting the Recipient in the preparation of the Project ("**Grant**").

2.2 Grant Amount - Subject to and in accordance with the terms and conditions of the Agreement and in reliance upon the representations, warranties and covenants of the Recipient hereinafter set forth, FCM agrees to contribute towards the Eligible Costs the maximum amount in Canadian Dollars (the "**Grant Amount**"), set forth in Schedule C of the Agreement. In the event that, if the aggregate amount of funding received or to be received from all sources of funding, other than the Recipient, as set forth in Schedule C of the Agreement or as updated in the Project Workbook (all as determined and calculated by FCM) is greater than the total costs incurred by the Recipient in respect of the Project, as evidenced by the delivery of documentation establishing Eligible Costs, then FCM may reduce the Grant Amount to such amount as it deems appropriate, in its sole and absolute discretion.

2.3 Grant Expiration Date - In the event that the Recipient fails to meet the conditions of Contribution set forth in the Request for Contribution and fails to obtain the Final Contribution before the end of the Term, then FCM may, at its sole and absolute discretion terminate any further requirement to make the Contribution(s), set forth in Schedule C.

2.4 Grant Disbursement - FCM will disburse the Contribution within 30 days of confirming that the Recipient has met all of FCM's conditions, to FCM's satisfaction.

2.5 Advanced Contribution – FCM will inform the Recipient, before signature of the Agreement, whether it is eligible for an Advanced Contribution, all as determined in FCM's sole and absolute discretion. In the event that the Recipient is eligible for an Advanced Contribution, FCM will disburse the Contribution within 30 days of receiving from the Recipient, a signed Agreement and a completed copy of FCM's Electronic Funds Transfer form, identifying the bank account where FCM should disburse the Advanced Contribution. The representations and warranties confirmed or made in the Agreement with respect to the Recipient will be true on and as of the date that FCM makes the Advanced Contribution, with the same effect as though such representations and warranties have been made on and as of the date that FCM makes the Advanced Contribution. If any confirmation, information or documentation provided to FCM is not true and correct, or if any act or event does or may materially and adversely affect the Project or the ability of the Recipient to perform its obligations under the Agreement or the Project or any of its other obligations that are material to the Recipient has occurred, the Recipient will immediately notify FCM prior to the making of the Advanced Contribution.

3. OBLIGATIONS OF THE RECIPIENT

Unless FCM shall otherwise agree in writing, the Recipient covenants and agrees that it: (i) shall use the Grant solely for expenditures that are Eligible Costs; (ii) shall carry out the Project and conduct the activities thereof in compliance with all applicable laws, regulations, order, rules, ordinances, permits, licenses, and without restricting the generality of the foregoing, in compliance with all labour, environmental, health and safety and human rights legislation applicable to the Project; (iii) shall carry out the Project with due diligence and efficiency and in accordance with sound engineering, scientific, financial and business practices; (iv) shall maintain industry standard insurance coverage which shall include general liability insurance; (v) shall not make any Material Change to the Project or in the nature or scope of its legal status; and (vi) shall not sell, assign, transfer, lease, exchange or otherwise dispose of, or contract to sell, assign, transfer, lease, exchange or otherwise dispose of, any of the real or personal property, whether movable or immovable, acquired, purchased, constructed, rehabilitated or improved, in whole or in part with the Grant, except if previously approved by FCM as described in Schedule C.

4. ELIGIBLE COSTS

Expenses that are eligible for partial reimbursement by FCM must be: (i) invoiced directly to the Recipient; (ii) incurred after the date set forth in Schedule C; (iii) an integral and an essential

component of the Project and required to help achieve the environmental objective of the Project; and (iv) actually and reasonably incurred in accordance with applicable industry standards.

5. RECORD-KEEPING and AUDIT

5.1 Record-keeping - The Recipient shall: (i) maintain its accounts, management information and cost control system and books of accounts adequately to reflect truly and fairly the financial condition of the Project and to conform to GAAP; and (ii) **safekeep all such records for at least seven (7) years after the end of the Term**.

5.2 Audit – The Recipient shall: (i) upon FCM's request with reasonable prior notice thereto, permit representatives of FCM, during its normal office hours, to have access to its books of accounts and records relating to the Project and permit FCM to communicate directly with, including the receipt of information from, its external auditors regarding its accounts and operations relating to the Project; (ii) permit FCM to undertake, at any time, at its expense, any audit of the records and accounts of the Recipient in relation to the Project. The Recipient agrees to ensure that prompt and timely corrective action is taken in response to any audit findings and recommendations conducted in accordance with the Agreement. The Recipient will submit to FCM in a timely manner, a report on follow-up actions taken to address recommendations and results of the audit; and (iii) permit the Government of Canada, the Auditor General of Canada, and their designated representatives, to the extent permitted by law, to inspect the terms and conditions of the Agreement and any records and accounts respecting the Project and to have reasonable and timely access to sites, facilities and any documentation relevant for the purpose of audit.

6. ONGOING INFORMATION REQUIREMENTS

The Recipient shall provide to FCM the following information, in form and content satisfactory to FCM: (i)a Project Progress Report in the form of Schedule E within thirty (30) days of FCM making such requests; ii) prompt notice of any proposed change in the nature or scope of its legal status; (iii) prompt notice of any act or event which does or may materially and adversely affect the Project or may materially and adversely affect the ability of the Recipient to perform its obligations under the Agreement or the Project or any of the Recipient's other obligations that are material to the Recipient; (iv) prompt notice of any litigation or administrative proceedings, together with copies of any written legal documents as FCM may request, excluding legal documents subject to solicitor client privilege, before any court or arbitral body or other authority which might materially and adversely affect the Project or the ability of the Recipient to perform its obligations under the Agreement or in respect of the Project or any of the Recipient's other obligations that are material to the Recipient; (v) immediate notice of the occurrence of any breach of any term or condition of the Agreement and specifying the nature of such breach, and the steps, if any, that it is taking to remedy the same; and (vi) such other information as FCM may from time to time reasonably request from the Recipient by notice to the Recipient.

7. COPYRIGHT

7.1 Copyright - Copyright in all reports, documents and deliverables prepared in connection with the Agreement and set out in Schedule C, by or on behalf of the Recipient (the "**Recipient Documentation**") will be the exclusive property of, and all ownership rights shall vest in either the Recipient or, subject to the Recipient's ability to grant the license set out in this Article 7.2, a person or entity engaged to develop the Recipient Documentation on behalf of the Recipient. In the event that the Recipient receives a copyright license to the Recipient Documentation, such license shall include a complete waiver in favour of the Recipient of all non-assignable rights (including moral rights) that may exist in the Recipient Documentation.

7.2 License - The Recipient hereby grants to FCM an irrevocable, perpetual, non-exclusive, worldwide, royalty-free, license, to use, reproduce, distribute, adapt, change formats, display, publish, make improvements to, sub-license, translate and copy in any manner the Recipient Documentation. This license shall survive the expiration or termination of the Agreement.

7.3 Interview - FCM shall hold all right, title and interest, including all intellectual property rights, in and to all formats of the Interview, including but not limited to written, audio recorded or video recorded formats, and to have sole and exclusive rights to the use thereof. Prior to the Interview, the Recipient shall ensure that any person designated by the Recipient to participate in the Interview will execute and deliver to FCM a written agreement which effects the assignment to FCM of all right, title and interest therein, including all intellectual property rights, and provides that such person has waived all its non-assignable rights (including moral rights) therein and grants to FCM the right to use the individual's image, including but not limited to posting the Interview on a public website.

8. PUBLIC RECOGNITION, COMMUNICATION, CONFIDENTIALITY

8.1 Public Recognition - The Recipient shall incorporate the following language into the Project Completion Report and the Final Deliverable:

"© 20XX, The Corporation of the City of Sault Ste. Marie. All Rights Reserved.
This project was carried out with assistance from the Green Municipal Fund, a Fund financed by the Government of Canada and administered by the Federation of Canadian Municipalities. Notwithstanding this support, the views expressed are the personal views of the authors, and the Federation of Canadian Municipalities and the Government of Canada accept no responsibility for them."

8.2 Communication - The Recipient shall comply with FCM's bilingual communication requirements until the date that is five (5) years following the Final Contribution and shall: (i) cooperate with FCM, who will lead the preparation and issuance of a news release announcing GMF funding for the Project and/or the coordination of a public announcement attended by FCM and the Government of Canada; (ii) promptly inform FCM of upcoming promotional events related to the Project and allow FCM and the Government of Canada to participate in such promotional events; (iii) cooperate with FCM in providing information on the Project to other interested persons to permit the sharing of knowledge and lessons learned about the Project; and (iv) cooperate with FCM in preparing one or more educational interviews, if required by FCM, showcasing the Project, that may be posted on FCM's public website or through other social media tools and made available through other mediums and in various formats (the "**Interview**").

8.3 Confidentiality - All processes, documents, data, plans, material, policies or information pertaining to either Party's operations which is obtained by the other Party ("**Receiving Party**") or furnished to the Receiving Party in connection with the Agreement and expressly identified as confidential thereby, including, without limitation, the terms of the Agreement, ("**Confidential Information**") shall be maintained by the Receiving Party in strict confidence and shall not be disclosed to any person or entity for any reason or used by the Receiving Party except as necessary for it to perform its obligations hereunder. The limitations contained in this section shall not apply to (a) Confidential Information which is in the public domain at the time of disclosure; (b) Confidential Information that becomes part of the public domain after disclosure through no fault of the Receiving Party; (c) Confidential Information that the Receiving Party can prove was known by the Receiving Party at the time of disclosure; (d) Confidential Information that the Receiving Party can prove was supplied to the Receiving Party by a third party or was independently developed by the Receiving Party; or (e) Confidential Information required to be disclosed pursuant to judicial process.

8.4 Two versions of confidential reports - The Recipient shall provide two versions of any Project Progress Report, Project Completion Report or Final Deliverable that might contain Confidential Information. The version containing Confidential Information shall be clearly labeled as confidential and will be treated as confidential by FCM. The version that does not contain Confidential Information may be posted on FCM's public website and/or made available through other social media websites or tools and otherwise made available to interested third parties.

9. REPRESENTATIONS AND WARRANTIES

The Recipient represents and warrants that: (i) it is duly established under the laws of the Province or Territory set forth in Schedule C of the Agreement and has the legal power and authority to enter into, and perform its obligations under, the Agreement and the Project; (ii) the Agreement has been duly authorized and executed by it and constitutes a valid and binding obligation of it, enforceable against it in accordance with its terms; (iii) neither the making of the Agreement nor the compliance with its terms and the terms of the Project will conflict with or result in the breach of any of the terms, conditions or provisions of, or constitute a default under any indenture, debenture, agreement or other instrument or arrangement to which the Recipient is a party or by which it is bound, or violate any of the terms or provisions of the Recipient's constating documents or any license, approval, consent, judgment, decree or order or any statute, rule or regulation applicable to the Recipient; (iv) it is not subject to any restructuring order under any applicable statutory authority; (v) no litigation, arbitration or administrative proceedings are current or pending or have been threatened, and so far as the Recipient is aware no claim has been made, which is likely to have an adverse effect on its preparation of the Project or its compliance with its obligations under the Agreement; and (vi) the Recipient has the right to grant the copyright license set out in Article 7 of this Schedule A.

10. TERMINATION OF THE AGREEMENT

(a) FCM may terminate this Agreement: (i) if the Recipient breaches any term or condition of this Agreement, and fails to remedy such breach upon the expiry of 15 Business Days' written notice from FCM of such breach or, with respect to a breach that cannot be remedied within the 15 Business Day period, such longer period of time as FCM may reasonably provide the Recipient to remedy the breach, provided the Recipient has commenced to remedy the breach within the 15 Business Day period and is actively and diligently taking appropriate measures to remedy the breach; (ii) if, in FCM's sole discretion, the Project cannot be completed as initially presented; (iii) if the Recipient fails to meet the conditions of Contribution set forth in the Request for Contribution and fails to obtain the Final Contribution before the end of the Term; (iv) if control and charge over the administration of all the affairs of the Recipient are vested in any person other than the Recipient; (v) if the Recipient becomes insolvent and/or proceedings have been commenced under any legislation or otherwise for its dissolution, liquidation or winding-up, or bankruptcy, insolvency or creditors' arrangement proceedings have been commenced by or against the Recipient; and (vi) if the Parliament of Canada fails to pass an appropriation that is sufficient and constitutes lawful authority for the Government of Canada making the necessary payment to FCM for the project or program in relation to which the Grant is being provided.

(b) Either Party may, on not less than 30 days' prior written notice to the other Party, terminate this Agreement.

11. EFFECT OF TERMINATION

(a) If this Agreement is terminated pursuant to Article 10, the Recipient may be: (i) reimbursed for all or a portion of the Eligible Costs they have incurred in relation to the Project up to the effective date of termination; and (ii) required to pay back to FCM all or a portion of the Grant Amount that was disbursed by FCM to the Recipient prior to the effective date of termination.

(b) The rights contained in Sections 11(a) are subject to FCM's sole discretion and satisfaction, taking into consideration the Recipient's out-of-pocket Eligible Costs incurred and results reported by the Recipient in connection with the Project. In addition, FCM may take such action or proceedings in compliance with applicable laws or regulations as FCM in its sole discretion deems expedient to collect the amounts owing to FCM hereunder, all without any additional notice, presentment, demand, protest or other formality, all of which are hereby expressly waived by the Recipient.

12. SAVING OF RIGHTS

No course of dealing and no delay in exercising, or omission to exercise, any right, power or remedy accruing to FCM upon any default under the Agreement shall impair any such right, power or remedy or be construed to be a waiver thereof or any acquiescence therein; nor shall the action

of FCM in respect of any such default, or any acquiescence by it therein, affect or impair any right, power or remedy of FCM in respect of any other default.

13. APPROPRIATIONS

Notwithstanding FCM's obligation to make any payment under the Agreement, this obligation does not arise if, at the time when a payment under the Agreement becomes due, the Parliament of Canada has not passed an appropriation that is sufficient and constitutes lawful authority for the Government of Canada making the necessary payment to FCM for the project or program in relation to which the Grant is being provided. FCM may reduce, delay or terminate any payment under the Agreement in response to the reduction or delay of appropriations or departmental funding levels in respect of transfer payments, the project or program in relation to which the Grant is being provided, or otherwise, as evidenced by any appropriation act or the federal Crown's main or supplementary estimates expenditures. FCM will not be liable for any direct, indirect, consequential, exemplary or punitive damages, regardless of the form of action, whether in contract, tort or otherwise, arising from any such reduction, delay or termination of funding.

14. NO BRIBES

The Recipient guarantees that no bribe, gift or other inducement has been paid, given, promised or offered to any person in order to obtain the Agreement. Similarly, no person has been employed to solicit or secure the Agreement upon any agreement for a commission, percentage, brokerage or contingent fee. The Recipient also guarantees that it has no financial interest in the business of any third party that would affect its objectivity in carrying out the Project.

15. RELEASE AND INDEMNIFICATION

15.1 Acknowledgment - The Recipient acknowledges and agrees that (i) the Recipient shall be solely and fully responsible for the Project or any element thereof; (ii) by accepting or approving anything required to be accepted or approved pursuant to this Agreement or the Project, FCM shall not be deemed to have warranted or represented the accuracy, sufficiency, legality, effectiveness or legal effect of the same, or of any term, provision or condition thereof, and such acceptance or approval thereof shall not constitute a warranty or representation to anyone with respect thereto by FCM; and (ii) FCM shall not be responsible in any way whatsoever for the Project or any element thereof.

15.2 Release - the Recipient releases and forever discharges FCM and its directors, officers, agents, servants and employees from any claims, demands, proceedings, losses, damages, liabilities, deficiencies, costs and expenses arising out of or in consequence of any loss, injury or damage to the Recipient or its property in any way relating to this Agreement and/or the Project.

15.3 Indemnification - The Recipient hereby agrees to indemnify and hold harmless FCM and its officers, directors, employees and agents from and against any and all liability, loss, costs, damages and expenses (including legal, expert and consultant fees), causes of action, actions, claims, demands, lawsuits or other proceedings (collectively, a "Claim"), by whomever made, sustained, incurred, brought or prosecuted, in any way arising out of or in connection with the Project or otherwise in connection with the Agreement, but only to the extent that such Claim arises out of or is in connection with the Recipient's breach of this Agreement or is caused by the negligence or wilful misconduct of the Recipient in the performance of its obligations hereunder or otherwise in connection with the Project.

15.4 Intellectual Property Indemnity - Recipient shall defend or settle at its expense any claim or suit against FCM arising out of or in connection with an assertion that the Recipient Documentation infringes any intellectual property right and the Recipient shall indemnify and hold harmless FCM from damages, costs, and attorneys' fees, if any, finally awarded in such suit or the amount of the settlement thereof; provided that (i) Recipient is promptly notified in writing of such claim or suit, and (ii) Recipient shall have the sole control of the defense and/or settlement thereof.

15.5 FCM's Limited Liability - In no event shall FCM, including its directors, officers, employees and agents, be liable under the Agreement for any indirect, special, incidental, consequential or punitive

damages of any kind, however caused, including, but not limited to, loss of profits or revenue, loss of data, work interruption, increased cost of work, or any claims or demands against the Recipient by any other entity, whether such remedy is sought in contract, tort (including negligence), strict liability or otherwise and whether or not FCM, including its directors', officers', employees' and agents' liabilty for direct damages for any reason and upon any cause of action, whether in tort (including negligence), contract, or any other legal theory, exceed the Grant Amount that was disbursed under the Agreement. The Agreement shall not create for nor give to any third party any claim or right of action against FCM.

15.6 Further Assurances - The Recipient shall promptly execute and deliver, upon request by FCM, all such other and further documents, agreements, opinions, certificates and instruments as may be reasonably required by FCM to more fully state the obligations of either party to the Agreement or to make any recording, file any notice or obtain any consent.

16. GENERAL

16.1 Notices and Requests - Any notice, document or other communication required to be given under the Agreement shall be in writing and shall be sufficiently given if sent by personal delivery/courier, registered mail or email to the other Party at its address indicated in Schedule C. The notice shall be deemed to have been delivered on the day of personal delivery, on the day received by email (as evidenced by a transmission confirmation), or on the fifth day following mailing.

16.2 Relationship of the Parties - The relationship between the Recipient and FCM is, and shall at all times be and remain, essentially that of a recipient and a grantor, and the Agreement does not and shall not be deemed to create a joint venture, partnership, and fiduciary or agency relationship between the Parties for any purpose. Neither the Recipient, nor any of its personnel are engaged as an employee, servant or agent of FCM.

16.3 Amendment - Any amendment of any provision of the Agreement, including the Schedules, must be in writing and signed by both Parties.

16.4 Choice of Language - It is the express wish of the Parties that the Agreement and any related documents be drawn up and executed in English. Les Parties reconnaissent avoir exigé que la présente convention et tous les documents connexes soient rédigés en anglais.

16.5 Governing Law -The Agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

16.6 Choice of Forum - The Parties hereto agree and intend that the proper and exclusive forum for any litigation of any disputes or controversies arising out of or related to the Agreement shall be a court of competent jurisdiction located in the Province of Ontario, City of Ottawa.

16.7 Effectiveness - The Agreement shall be in force until such time as FCM has disbursed the Final Contribution or until the Agreement has been terminated in accordance with Article 10, whichever shall first occur.

16.8 Successors and Assigns - The Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective successors and assigns, except that the Recipient may not assign or otherwise transfer all or any part of its rights or obligations under the Agreement without the prior written consent of FCM.

16.9 Severability - If any provision or clause of the Agreement is found by a court of competent jurisdiction to be invalid, void, null, illegal or unenforceable, that determination shall not affect the enforceability of the remaining provisions to the extent they can be given effect without the illegal or invalid provision. The Parties further agree to negotiate the severed provision to bring the same within the applicable legal requirements to the extent possible.

16.10 Waiver of Rights - Except as expressly provided in the Agreement, any waiver of, or consent to depart from, the requirements of any provision of the Agreement shall be effective only if it is in writing and signed by the Party giving it, and only in the specific instance and for the specific purpose for which it has been given. No failure on the part of a Party to exercise, and no delay in exercising, any right under the Agreement shall operate as a waiver of such right. No single or partial exercise of any such right shall preclude any other or further exercise of such right or the exercise of any other right.

16.11 Entire Agreement - The Agreement constitutes the entire agreement between the Parties pertaining to the subject matter hereof and supersedes all prior correspondence, agreements, negotiations, discussions and understandings, if any, written or oral.

16.12 Headings - Headings are included in the Agreement for convenience of reference only and are not intended to be full or accurate descriptions of the contents thereof.

16.13 Gender and Number - All references in the Agreement to the masculine gender include the feminine gender; and all references to the singular include the plural and vice versa.

16.14 Counterparts - The Agreement may be executed and delivered (including by email transmission or by protocol document format ("PDF")) in one or more counterparts and, each of which when executed shall be deemed an original, but both of which together shall constitute one and the same agreement.

16.15 Survival - The provisions pertaining to Article 5, Article 7, Article 8, Article 15 and this Article 16, and any other provisions hereof expressly or impliedly intended to survive termination or expiry, will survive the termination of the Agreement.

SCHEDULE B – ELIGIBLE AND INELIGIBLE COSTS TABLE

Expenses that are eligible for partial reimbursement or for an Advanced Contribution must be:

- incurred after the date the application is received by FCM (costs to write the application incurred up to 90 days prior to receipt of the application by FCM).
- invoiced directly to your organization.
- an integral and an essential component of the initiative required to achieve the environmental objective.
- actually and reasonably incurred in accordance with applicable industry standards.
- Labour costs must be documented in a manner that meets audit standards for verification of eligibility of cost and level of effort.

FCM reserves the right to audit financial statements or expenses incurred at a future date. **Please keep financial accounts and records, including but not limited to contracts, invoices, statements, receipts, timesheets, and vouchers, for at least seven years.** Financial records must be sufficiently detailed to enable verification of expenditure eligibility and level of effort.

Cost Category	Eligible Costs	Ineligible Costs
Section A: Costs incurred prior to date application received by FCM		
1. Pre-application	Consulting costs to write the GMF application, including inserting information into the Project Workbook, incurred up to 90 days before the date FCM receives your application.	All other costs incurred before the date FCM receives your application, including any stakeholder engagement or research that took place to complete the full application or project workbook.
Section B: Costs incurred after date application received by FCM		
2. Administrative	Administrative costs that are directly linked to and have been incurred for the Project, such as: • communication costs (e.g. long-distance calls) • permits or certifications required for the Project • printing or photocopying by outside suppliers • acquisition of documents used exclusively for the project document translation	• General overhead costs, including operating costs related to the general maintenance, repair and overhead costs associated with the project. • Administrative costs not specifically listed as eligible costs. • Office space, supplies, and general overhead costs incurred in the ordinary course of business.
3. Advertising	Advertising costs essential to communicating the project to the public and evaluating the project, such as: • fees for advertising development • fees for media distribution • website development • public surveys	• Advertising costs for general education or publicity associated with ongoing or other business activity and not a specific requirement of the project. • Promotional items
4. Audit (capital projects only)	The cost of a financial audit conducted by a third-party accredited professional for the capital project, which is required by FCM.	N/A

5. Capital expenditures (capital projects only)	Capital costs as defined and determined in accordance with generally accepted accounting principles (GAAP), including: • Costs for acquiring, developing, constructing, modernizing or leasing systems (equipment, hardware, software, etc.). • Costs of construction, renovation or modernization of facilities and structure such as material and installation costs.	Purchase or lease of real property
6. Equipment rental (capital projects only)	Rental of tools and equipment related to the capital project.	Rental of tools or equipment related to ongoing or other business activities.
7. Meetings and public gatherings	Costs related to meetings and public gatherings that communicate the project to the public and that collect feedback, such as: • facility rental • audiovisual equipment rental	Any hospitality expenses, such as: • food and drink • alcohol • door prizes • entertainment • music • decorations • flowers and centrepieces
8. Services	Fees for professional or technical services, including: • Consultants and contractors fees for work related to building monitoring and analysis, existing building commissioning (EBX), low-carbon pathway studies and capital projects. • Fees incurred by a third-party qualified commissioning agent or existing building commissioning agent for a comprehensive review of building systems. • Fees incurred by a certified professional to conduct project measurement and verification. • The cost of an environmental audit, which is required by FCM, undertaken by a third-party verification specialist (capital projects only)	Costs for engineering studies, audit studies or feasibility studies for which grants or contributions are provided by or committed to be provided by any program of the Government of Canada.
9. Staff remuneration	Daily rates actually paid by the Eligible Recipient to its employees (including permanent and contract employees) in Canada for time actually worked on the implementation of the	• Overtime pay • Bonuses/performance pay • Fringe benefits such as: sick days, pension plan, maternity leave, parental leave, any

	Project (including staff time to participate in capacity-building activities led by or on behalf of FCM). The daily rate per employee shall include the following costs: • direct salaries: actual and justifiable sums paid by the Eligible Recipient to employees in accordance with the Eligible Recipient's pay scales as regular salary excluding overtime pay and bonuses. • fringe benefit: in accordance with the Eligible Recipient's policies, as follows: (a) time-off benefits (prorated to the annual percentage (%) of time actually worked on the implementation of the Project): allowable number of days to be paid by the Eligible Recipient for the following payable absences: statutory holidays, annual vacation, and (b) paid benefits: actual sums paid by the Eligible Recipient for paid benefits (prorated to the annual percentage (%) of time actually worked on the implementation of the Project): the Eligible Recipient's contribution to employment insurance and workers' compensation plans (where applicable), health and medical insurance, group life insurance, or other mandatory government benefits **N.B. For private sector entities only, as determined by FCM, the value of the total staff remuneration cannot exceed 10% of the Project's Eligible Costs.**	other fringe benefits not listed as eligible • Costs related to ongoing or other regular business activities and not specifically required for the Project. • Staff wages while receiving training or attending learning events. • Professional membership fees or dues. • Staff remuneration for which a grant or contribution are provided by or committed to be provided by the FCM. This includes funding provided or committed through Climate Change Staff Grants from FCM's Municipalities for Climate Innovation Program.
10. Supplies and materials	Supplies and materials that are specifically needed to undertake the project.	Costs related to ongoing or other business activities, and not a specific requirement of the Project.

11. Transportation, shipping and courier charges	Transportation costs for delivery of materials and services essential for the Project.	Any transportation expense related to ongoing or other business activities.
12. Travel and accommodation	Travel and project associated expenses for you and consultants to the extent that the travel and accommodation rates comply with Treasury Board of Canada guidelines and to the extent that such travel is necessary to complete the project, including travel and accommodation costs to attend CBR capacity-building activities organized by or on behalf of FCM.	• Travel and associated expenses of a partner in the Project. • Travel, accommodation and fees to attend conferences, missions, trade shows, etc.
13. Taxes	The portion of taxes for which your organization is not otherwise eligible for rebate.	The portion of taxes for which your organization is eligible for rebate (provincial, territorial or federal).
14. In-kind	N/A **Note: Lead applicants can include costs for staff time for time actually worked on the implementation of the project and list this as "staff remuneration." See Staff Remuneration category above.**	Any goods and services that are received through donation or in-kind contribution.
15. Other	Other costs considered by the FCM's Board of Directors or FCM Staff to be necessary direct costs incurred properly and reasonably to implement your project.	N/A

SCHEDULE C – RECIPIENT'S SPECIFIC TERMS AND CONDITIONS

1. PROJECT

The Recipient is receiving the Grant Amount to perform the following project:

Project description:

The City of Sault Ste. Marie will complete deep energy retrofit feasibility studies for its top six building emitters. The chosen buildings represent 43% of the total carbon emissions from the city's corporate portfolio and include a community centre, a wastewater treatment plant, an arena complex, a public works centre, a fire hall, and a transit administration/garage facility.

The studies will assess how each facility can reduce greenhouse gas emissions by 50% within 10 years, 80% within 20 years and net zero by 2050, compared to their 2017 baseline. Each measure will be supported by a detailed assessment of the expected impact on greenhouse gas emissions and energy use, the capital and operation costs, an evaluation of the net present value, and the overall life cycle costs. Finally, the studies will investigate a full facility switch from fossil fuels by introducing renewable energy generation.

The project aligns well with the city's Greenhouse Gas Reduction Plan, which charts a path to reduce corporate and community emissions to net zero by 2050 by outlining intermediate 10-year reduction targets. If the city implements the recommendations resulting from these studies, it would exceed its 2030 targets of reducing corporate emissions by 10%.

Innovative aspect: The project considers a whole-building outlook approach to studying greenhouse gas emissions reduction on the city's top six largest greenhouse gas emitters.

Replicability: Each chosen building offers a unique outlook into different building archetypes. The measures identified in one facility can be replicated in similar buildings across the city's corporate building portfolio.

2. PROJECT COSTS

The forecasted Eligible Costs that the Recipient included in its GMF funding application:

WORK PLAN AND BUDGET				
Milestones	**Cost Category**	**Eligible Cost ($)**	**Ineligible Cost ($)**	**Total Cost ($)**
Milestone 1: Project Planning	**Start date:**	08/2023	**End date:**	08/2023
Establish Project Advisory Team, comprised of City Department Directors who manage the six buildings that will be audited, and the Sustainability Coordinator.	(9) Staff remuneration	$1,939	$0	**$1,939**
Finalize project statement of work	(9) Staff remuneration	$1,939	$0	**$1,939**
Develop and issue RFP.	(9) Staff remuneration	$1,939	$0	**$1,939**
Answer questions from prospective vendors, hold bidders conference	(9) Staff remuneration	$332	$0	**$332**
Review submitted bids and select project consultant	(9) Staff remuneration	$332	$0	**$332**
Write report to Council and obtain Council approval	(9) Staff remuneration	$332	$0	**$332**
Inform selected bidder and organize project kickoff	(9) Staff remuneration	$111	$0	**$111**
			Milestone 1 Subtotal	**$6,925**
Milestone 2: Site Investigation	**Start date:**	08/2023	**End date:**	08/2023

Consultant to review all available drawings (mechanical, electrical, structural, etc.);	(8) Services	$4,520	$0	**$4,520**
A site walkthrough for each facility including a visit to all mechanical and electrical rooms;	(8) Services	$4,520	$0	**$4,520**
Perform interviews with facility operations and key staff at each facility building to fully understand building requirements and how the systems are operated on a daily basis; and,	(8) Services	$4,520	$0	**$4,520**
Review of at least 2 years of utility bills for the facility, including natural gas and electricity;	(8) Services	$4,520	$0	**$4,520**
Create a site investigation summary, a summary of interviews and include any other findings relevant to the project identified	(8) Services	$4,520	$0	**$4,520**
			Milestone 2 Subtotal	**$22,600**
Milestone 3: Develop Calibrated Model	**Start date:**	08/2023	**End date:**	09/2023
Consultant to develop energy model of each facility using a recognized industry-standard software (e.g. RETScreen Expert);	(8) Services	$5,424	$0	**$5,424**
Analysis of thermal bridging review for each facility	(8) Services	$5,424	$0	**$5,424**
Analysis of the roof assessment for each facility	(8) Services	$5,424	$0	**$5,424**
Electricity demand impact modelling for each facility	(8) Services	$5,424	$0	**$5,424**
Embodied impact analysis for each facility	(8) Services	$5,424	$0	**$5,424**
Climate adaptation strategies for each facility	(8) Services	$5,424	$0	**$5,424**
			Milestone 3 Subtotal	**$32,544**
Milestone 4: Design Workshop	**Start date:**	09/2023	**End date**:	10/2023
Confirm the project goals as per Greenhouse Gas (GHG and energy use targets;	(8) Services	$5,424	$0	**$5,424**
Determine roles and responsibilities for the project;	(8) Services	$5,424	$0	**$5,424**
Establish the GHG quantification framework and methodologies to be used;	(8) Services	$5,424	$0	**$5,424**
Define all assumptions and risks;	(8) Services	$5,424	$0	**$5,424**
Perform brainstorming on high level strategies to be used;	(8) Services	$5,424	$0	**$5,424**
Identify non-energy and non-GHG related benefits associated to this project and any other findings derived from the workshop	(8) Services	$5,424	$0	**$5,424**
			Milestone 4 Subtotal	**$32,544**
Milestone 5: Measure Analysis	**Start date:**	10/2023	**End date**:	10/2023
Energy modelling approach	(8) Services	$5,424	$0	**$5,424**
Measure description and associated impacts and costs (capital, operational, carbon)	(8) Services	$5,424	$0	**$5,424**
Identify capital and operational costs	(8) Services	$5,424	$0	**$5,424**
Evaluate Net Present Value (NPV) and comparative costs associated with businesses as usual model, and low carbon model to establish a +NPV	(8) Services	$5,424	$0	**$5,424**
Identify impact on interrelated systems	(8) Services	$5,424	$0	**$5,424**
Develop implementation strategy	(8) Services	$5,424	$0	**$5,424**
Develop commissioning, measurement and verification strategies	(8) Services	$5,424	$0	**$5,424**
			Milestone 5 Subtotal	**$37,968**
Milestone 6: GHG Reduction Pathway Scenarios	**Start date:**	11/2023	**End date**:	11/2023

Proposed solutions with descriptions and interactions with other systems, including all technologies and measures for each scenario.	(8) Services	$18,080	$0	**$18,080**
capital operational and carbon costs	(8) Services	$18,080	$0	**$18,080**
Projected emissions using project grid emission factors and other fuel emission factors	(8) Services	$18,080	$0	**$18,080**
Life cycle costing assessment for each scenario	(8) Services	$18,080	$0	**$18,080**
			Milestone 6 Subtotal	**$72,320**
Milestone 7: Draft Final Report - including	**Start date:**	11/2023	**End date**:	12/2023
Summarize findings from Milestones 2-6	(8) Services	$33,900	$0	**$33,900**
Submit report for City feedback	(8) Services	$334	$0	**$334**
City review report and submit feedback to consultant	(9) Staff remuneration	$1,994	$0	**$1,994**
Consultant to finalize report	(8) Services	$8,588	$0	**$8,588**
			Milestone 7 Subtotal	**$44,817**
Milestone 8: Present final audits to City for approval	**Start date:**	12/2023	**End date**:	12/2023
Present final Project to City Council	(9) Staff remuneration	$55	$0	**$55**
Present final Project to City Council	(7) Meetings and public gatherings	$271	$0	**$271**
			Milestone 6 Subtotal	**$327**
	Subtotal – All Phases	**$250,045**	**$0**	**$250,045**

	Total Eligible Costs **$250,045**

Contingency costs: Have you included room for contingencies in some or all of your task costs? Please explain.
Yes. 13%

FCM will only reimburse costs incurred after November 24, 2022, except for costs incurred to write the application, which are eligible for reimbursement if incurred after August 26, 2022.

3. PROJECT SOURCES OF FUNDING

The funding for the Project is planned as:

Funding Source	Description	Date Confirmed	Amount	Percentage of Total Budget
Green Municipal Fund	Grant	05-MAY-2023	$200,000	80%
The Corporation of the City of Sault Ste. Marie	Cash	22-NOV-2023	$50,045	20%
		TOTAL	**$250,045**	**100%**

4. GRANT AMOUNT

The Grant Amount, described in Article 2 of Schedule A, shall be equal to the lower of:

(i) the sum of two hundred thousand dollars ($200,000); or
(ii) eighty percent (80%) of Eligible Costs.

5. GRANT DISBURSEMENTS

The obligation of FCM to disburse the Grant to the Recipient, is subject to the Recipient fulfilling the applicable conditions of Contribution set forth below, to the satisfaction of FCM, in its sole and absolute discretion.

Payment and reporting table: The forecasted Contribution(s) amounts ($), reporting requirements and reporting dates as agreed upon by the Parties prior to Agreement signature.

Contribution(s) and Deliverable(s)	Approximate Date of Submission	Approximate Date of Contribution	The Contribution shall be equal to the lesser of:
Advanced Disbursement • Executed Grant Agreement • Void Cheque • Evidence that project delivery team has been hired	Within 30 days of executed Agreement + receipt of void cheque		• $140,000
Final Contribution • Schedule D – Request for Contribution • Schedule F – Project Completion Report • Evidence that Milestones #1, #2, #3, #4, #5, and #6 were completed: Project Planning, Site Investigation, Develop Calibrated Model, Design Workshop, Measure Analysis, and GHG Reduction Pathway Scenarios • Final Feasibility Study Report • Updated Project Workbook ○ Sources of Funding ○ Payment and reporting table ○ Expense Claim • Additional conditions: None	31-Dec-2023	31-Jan-2024	• $200,000 less the amount of previous Contribution; or • 80% of Eligible Costs then incurred by the Recipient less the amount of previous Contribution

6. JURISDICTION

The jurisdiction applicable to Section 9 of Schedule A of the Agreement is the Province of Ontario.

7. CRA BUSINESS NUMBER

The Recipient's CRA Business number is 122023120 RT001.

8. NOTICES

To the Recipient:	To FCM:
The Corporation of the City of Sault Ste. Marie 99 Foster Drive Sault Ste. Marie, Ontario P6A 5X6 Attention: Emily Cormier Sustainability Coordinator • telephone: 705-989-8748 • by electronic mail: e.cormier2@cityssm.on.ca Alternate Contact: Attention: Travis Anderson Director of Tourism and Community Development • telephone: 705-989-7915 • by electronic mail: t.anderson@cityssm.on.ca	Federation of Canadian Municipalities 24 Clarence Street Ottawa, Ontario K1N 5P3 Attention: Carrie Booth Project Officer for GMF • telephone: 613-907-6293 • by electronic mail: cbooth@fcm.ca

SCHEDULE D – REQUEST FOR CONTRIBUTION TEMPLATE

[LETTERHEAD OF THE RECIPIENT]

[Address]
[Date]

Federation of Canadian Municipalities
24 Clarence Street
Ottawa, Ontario
K1N 5P3

Attention: Carrie Booth
Project Officer for GMF

I am an authorized official of the Recipient and understand that all the information below must be submitted and accepted by FCM, in order to receive the Contribution. I hereby certify, in satisfaction of the terms and conditions of the Agreement, that:

- The Conditions of Contribution set forth in Schedule C have been met by the Recipient.
- The Project conforms to the description set forth in Schedule C of the Agreement.
- The Recipient has obtained, or has made other arrangements satisfactory to FCM for obtaining, all approvals, consents, authorizations and licences that are required under the laws of Canada and of the relevant Province or Territory, in order for the Recipient to enter into and comply with the Agreement and to undertake and complete the Project.
- No act or event does or may materially and adversely affect the Project or the ability of the Recipient to perform its obligations under the Agreement and the Project or any of its other obligations that are material to the Recipient has occurred.
- The representations and warranties confirmed or made in the Agreement with respect to the Recipient will be true on and as of the date that FCM makes the Contribution, with the same effect as though such representations and warranties have been made on and as of the date that FCM makes the Contribution.
- All the covenants, conditions and other obligations set forth in the Agreement, including its schedules, and the Project Workbook, to be performed or satisfied by the Recipient before the date that FCM makes the Contribution have been performed or satisfied, to FCM's satisfaction.
- All capitalized terms have the meaning attributed to them in the Agreement.
- If any confirmation, information or documentation provided to FCM is not true and correct, the Recipient will immediately notify FCM prior to the making of the Contribution.
- All expenses claimed:
    - have been submitted through the Expense Claim template, in the Project Workbook;
    - have been incurred and paid, or are to be paid, by the Recipient;
    - were integral and essential components of the Project and required to help achieve the environmental objectives of the Project;
    - were reasonably incurred in accordance with applicable industry standards; and
    - are Eligible Costs as per Schedule B, that were incurred after the date set forth in Schedule C.
- I acknowledge and agree that the Recipient's records and accounts in relation to the Project, might be

audited.

- I am attaching a completed copy of FCM's Electronic Funds Transfer form to identify the bank account where FCM should deposit the Contribution.

_____

Name and title of authorized officer of Recipient

_____ _____

Signature Date

SCHEDULE E – PROJECT PROGRESS REPORT TEMPLATE

VERY IMPORTANT:

Timing: You need to email a report, to your GMF project officer (contact info is in Schedule C), on the dates indicated in Schedule C or whenever FCM asks for such a report.

Copyright: If you're hiring a consultant to prepare the report, please make sure to get the copyright (see FCM's copyright tips document), or else FCM will not be able to disburse the Grant Amount.

Accessibility for people with disabilities: Please do not change the format, font, layout, etc. of this report. This template has been specially designed, following FCM's Accessibility Guidelines, in order to be accessible to people with disabilities.

Confidentiality: If your report contains any Confidential Information that you would prefer not be made available to the public (e.g. through a case study or other materials produced by FCM that relate to your Project), please submit two versions of the report:

1. **Complete report including Confidential Information:** Please clearly label this report with the word "**Confidential**" or similar wording and FCM will treat it as confidential.

2. **Abridged report excluding Confidential Information:** This report may be posted on the FCM website and otherwise made available to interested third parties, to help FCM meet its knowledge sharing objectives.

Purpose: Your Project Progress Report has two main purposes:

1. **Project tracking:** This report enables FCM to confirm that your Project is proceeding as planned, or to be informed of any unforeseen delays.

2. **Knowledge sharing:** FCM shares the lessons and expertise gained through GMF-funded initiatives with other communities across Canada. The findings and lessons learned documented in your Project Progress Report could be valuable for other municipal governments that are seeking to address sustainability issues in their own communities. FCM may wish to supplement this information through an Interview with the Project lead.

Content outline: Your Project Progress Report should be approximately **one to two pages long** and include the information below. **Note: You may request a Microsoft Word version of this template from your GMF project officer.**

Project information

GMF number: CBR-22-0001
Name of funding recipient: The Corporation of the City of Sault Ste. Marie
Project title: Studying GHG Reduction Pathways at Six Municipal Buildings in Sault Ste. Marie, Ontario
Date of Project Progress Report:

1. Project status

a) Please summarize the activities completed so far and indicate the activities currently in progress, as per Schedule C. **Note:** If you have previously submitted a Project Progress Report (for projects with multiple contributions), your summary should build on the information you included in your previous report.

b) Have there been any significant changes, or do you anticipate any significant changes, to the scope or costs of the Project as described in the Agreement or in a previously submitted Project Progress Report (if applicable)?

c) If your Project is a feasibility study or pilot project, please indicate how the scope will change and, in general terms, how the changes will affect the **environmental benefits** you aim to achieve and the **budget** (e.g. increase or decrease; no precise figures required).

d) When do you expect to complete the Project (month/year)?

2. Lessons learned to date

a) Have you begun to implement any new technology or new approach? Are there any benefits or drawbacks in using this new technology or approach that you have identified to date?

b) What barriers have you encountered so far and what solutions have you implemented to address them?

c) If you were planning this type of Project again, what would you do differently, knowing what you know now?

d) Do you have a Project champion who has been instrumental to the Project to date? If so, please include his or her name, title and contact information, and describe his or her role in the Project.

e) What advice would you give to someone in another community undertaking a similar project?

3. Photos and materials

FCM includes project photos and links to project materials in GMF case studies, website content, and other vehicles.

a) Identify and attach any materials resulting from the Project to date that would be useful to share with other communities, such as checklists, toolkits, guidelines, bylaws, videos or information brochures. If the material is available on your website, simply include the link to it.

For example, a water metering project might result in a new municipal water use bylaw, or a series of householder information brochures or online video clips on ways to reduce water use.

b) Attach any high-quality photographs of the Project if you have taken any to date. Where possible, include photos that feature people in action. The photos must be in jpeg or tiff format and at least 300 dpi (up to 10 MB/10,000 KB but no smaller than 1 MB/1,000 KB in file size). For each photo, please include:

i) A caption describing what is featured in the photo.
ii) A photo credit that indicates who owns the copyright to the photo and the photographer (e.g. © 2020, City of Ottawa/Madison Brown).
iii) A written release signed by the individuals depicted in the photo granting FCM permission to use the images. **Please request an FCM photo consent form from your GMF project officer.**

SCHEDULE F – PROJECT COMPLETION REPORT TEMPLATE

VERY IMPORTANT:

Timing: You need to email a report, to your GMF project officer (contact info is in Schedule C), on the dates indicated in Schedule C or whenever FCM asks for such a report.

Copyright: Before you submit a report to FCM, make sure you hold the copyright for the report. If you're hiring a consultant to prepare the report, please make sure to get the copyright (see FCM's copyright tips document), or else FCM will not be able to disburse the Grant Amount.

Accessibility for people with disabilities: Please do not change the format, font, layout, etc. of this report. This template has been specially designed, following FCM's Accessibility Guidelines, in order to be accessible to people with disabilities.

Confidentiality: If your report contains any Confidential Information that you would prefer not be made available to the public (e.g. through a case study or other materials produced by FCM that relate to your Project), please submit two versions of the report:

1. **Complete report including Confidential Information:** Please clearly label this report with the word "**Confidential**" or similar wording and FCM will treat it as confidential.

2. **Abridged report excluding Confidential Information:** This report may be posted on the FCM website and otherwise made available to interested third parties, to help FCM meet its knowledge sharing objectives.

Please contact your project officer to receive an electronic copy of the Completion Report Template.

Upon completion of the Project, a copy of the Final Deliverable must be submitted along with this Completion Report.

FCM will post your report on the Green Municipal Fund™ (GMF) website. This is because one of FCM's mandates is to help municipal governments share their knowledge and expertise regarding municipal environmental projects, plans and studies.

How to complete the Completion Report

The purpose of the Completion Report is to share the story of your community's experience in undertaking your project with others seeking to address similar issues in their own communities.

Please write the report in plain language that can be understood by people who are not specialists on the subject. A Completion Report is typically in the range of 5–10 pages, but may be longer or shorter, depending on the complexity of the project.

GMF grant recipients must enclose **final** copies of the Completion Report and the Final Deliverable with their final Request for Contribution. The reports, including all attachments and appendices, must be submitted in PDF format with searchable text functionality. Reports that are not clearly identifiable as final reports, such as those displaying headers, footers, titles or watermarks containing terms like "draft" or "for internal use only," will not be accepted by GMF. Additionally, reports must be dated. If you have questions about completing this report, please consult GMF staff.

GMF number	CBR-22-0001
Name of lead applicant (municipality or other partner)	The Corporation of the City of Sault Ste. Marie
Name, title, full address, phone, fax and e-mail address of lead technical contact for this study	
Date of the report	

1. Introduction

a) Who was involved in doing the Feasibility Study, and what are their affiliations? Please include name, title and contact information. Those involved could include municipal staff, engineers and other consultants, a representative from a non-governmental organization, and others.

2. The Feasibility Study

a) Describe the process that you undertook to make this feasibility study a reality, from concept, to council approval, to RFP, to final deliverable.

b) What were the objectives of the Feasibility Study (what was it seeking to determine)?

c) What approach (or methodology) was used in the Feasibility Study to meet these objectives?

d) Please describe any public consultations conducted as part of the Feasibility Study and their impact on the Study.

3. Feasibility Study Findings and Recommendations

a) What were the environmental findings related to the options explored in the Feasibility Study? Please provide quantitative results and summary tables of these results (or the page numbers from the Feasibility Study report).

b) What were the financial findings related to the options explored in the Feasibility Study (for example, results of a cost-benefit analysis, financial savings identified, and so on)? Please provide quantitative results and summary tables of these results (or the page numbers from the Feasibility Study report).

c) Based on the environmental and financial findings above, what does the Feasibility Study recommend?

4. Lead Applicant's Next Steps

a) Taking the Feasibility Study's recommendations into account, what next steps do you as the municipality plan to take?

b) What potential benefits or internal municipal improvements would result from these next steps?

5. Lessons Learned

In answering the questions in this section, please consider all aspects of undertaking the Study — from the initial planning through each essential task until the Final Study was prepared.

a) What would you recommend to other municipalities interested in doing a similar Feasibility Study?

b) What would you do differently if you were to do this again?

c) What barriers or challenges (if any) did you encounter in doing this Feasibility Study? How did you overcome them?

6. Knowledge Sharing

a) Has the Project received any recognition, media coverage, or notable public support? If so, please describe briefly (three to four sentences).

b) Is there a website where more information about the Feasibility Study can be found? If so, please provide the relevant URL.

c) In addition to the Feasibility Study results, has your Feasibility Study led to other activities that could be of interest to another municipality (for example, a new policy for sustainable community development, a series of model by-laws, the design of a new operating practice, a manual on public consultation or a measurement tool to assess progress in moving toward greater sustainability)? If so, please list these outcomes, and include copies of the relevant documents (or website links).

d) Would you like to showcase your Project through an FCM webinar or workshop?

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This project was carried out with assistance from the Green Municipal Fund, a Fund financed by the Government of Canada and administered by the Federation of Canadian Municipalities. Notwithstanding this support, the views expressed are the personal views of the authors, and the Federation of Canadian Municipalities and the Government of Canada accept no responsibility for them.

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW 2023-145

STREETS: A by-law to amend By-law 2008-131 being a by-law respecting streets and related matters.

THE COUNCIL of The Corporation of the City of Sault Ste. Marie, pursuant to the provisions of subsection 10(2) *The Municipal Act, 2001*, S.O. 2001, c. 25 and amendments thereto **ENACTS** as follows:

1. **AMENDMENTS TO STREETS BY-LAW 2008-131**

   Streets By-law 2008-131 is amended as follows:

   Remove and replace section 1 with the following:

   "**SECTION 1**

   1. TITLE

   This By-law may be cited as "Streets and Related Matters By-law"

Remove and replace references to "his/her" or "his or her" with "their".

Remove and replace references to "his" with "their".

Remove and replace references to "Council" with "Deputy CAO – Public Works and Engineering or their designate".

Remove and replace references to "Commissioner of Engineering and Planning" with "Deputy CAO – Public Works and Engineering or their designate".

Remove and replace references to "Commissioner of Public Works and Transportation" with "Deputy CAO – Public Works and Engineering or their designate".

Remove and replace references to "Commissioner" with "Deputy CAO – Public Works and Engineering or their designate".

Remove and replace subsection 9(1) with the following:

"SECTION 9

9. ENCUMBERING OR FOUL STREETS OR OTHER LAND OF THE CORPORATION

(1) General Prohibition

No person shall obstruct, encumber, injure or foul any street or other land of the Corporation with any animal, vehicle or other means, or erect, place or maintain any building, fence, post or other structure or thing whatsoever, except as authorized by law or provided by by-law of the Council. Without restricting the generality of the foregoing and for greater particularity, no person shall, save in accordance with a City by-law, obstruct, encumber, injure or foul any street or other land of the Corporation:"

Remove and replace paragraph 9(1)(n) with the following:

"(n) Repairs by Corporation

Where any street or part thereof or other land of the Corporation has been injured, fouled, obstructed or otherwise as prohibited by this section the Corporation shall repair such street or part thereof or other land of the Corporation at the expense of the person who injured, fouled, obstructed or otherwise the same and the expense so incurred shall be recovered by action or in like manner as municipal taxes."

Remove "(d)" at Section 13 Paragraph (13)(d) and insert the paragraph to end of paragraph (c). Change paragraph (e) to (d), change paragraph (f) to (e) and change paragraph (g) to (f).

2. **EFFECTIVE DATE**

This by-law is effective from the date of its final passing.

PASSED in open Council this 28th day of August, 2023

_____

MAYOR – MATTHEW SHOEMAKER

_____

CITY CLERK – RACHEL TYCZINSKI

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NO. 2023-146

PARKS: A by-law to amend By-law 80-128 (being a by-law for the use, regulation, protection and government of the municipal parks in the City of Sault Ste. Marie).

The Council of The Corporation of the City of Sault Ste. Marie pursuant to section 10 of the Municipal Act, 2001 ENACTS as follows:

1. **PARKS BY-LAW 80-128 AMENDED**

Parks By-law 80-128 is amended as follows:

add "Subsection 4 (4)

Despite the above and unless signed by the City to the contrary, no park shall be used for camping or living accommodations at any time."

2 **EFFECTIVE DATE**

This by-law is effective on the final date of its passing.

PASSED in open Council this 28th day of August, 2023

_____

MAYOR – MATTHEW SHOEMAKER

_____

CITY CLERK – RACHEL TYCZINSKI

LEGAL\STAFF\COUNCIL\BY-LAWS\2023\2023-146 AMEND BY-LAW 80-128 (PARKS).DOC

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

BY-LAW NUMBER 2023-144

A BY-LAW TO AUTHORIZE A FRANCHISE AGREEMENT BETWEEN THE CORPORATION OF THE CITY OF SAULT STE. MARIE and ENBRIDGE GAS INC.

WHEREAS the Council of The Corporation of the City of Sault Ste. Marie deems it expedient to enter into the attached franchise agreement (the "Franchise Agreement") with Enbridge Gas Inc.;

AND WHEREAS the Ontario Energy Board by its Order issued pursuant to the *Municipal Franchises Act* on the day of , 2023 has approved the terms and conditions upon which and the period for which the franchise provided in the Franchise Agreement is proposed to be granted, and has declared and directed that the assent of the municipal electors in respect of this By-Law is not necessary:

NOW THEREFORE the Council of The Corporation of the City of Sault Ste. Marie enacts as follows:

1. **THAT** the Franchise Agreement between The Corporation of the City of Sault Ste. Marie and Enbridge Gas Inc. attached hereto and forming part of this by-law, is hereby authorized and the franchise provided for therein is hereby granted.

2. **THAT** the Mayor and City Clerk be and they are hereby authorized and instructed on behalf of the Corporation of the City of Sault Ste. Marie to enter into and execute under its corporate seal and deliver the Franchise Agreement, which is hereby incorporated into and forming part of this By-Law.

3. **THAT** the following by-law be hereby repealed:

    - By-law Number 2003-152 for the Corporation of the City of Sault Ste. Marie, passed in Council on the 26th day of January, 2004.

4. **THAT** this by-law shall come into force and take effect as of the final passing thereof.

Read a first time this 28th day of August, 2023.

Read a second time this 28th day of August, 2023.

Read a third time and finally passed this day of , 2023.

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

_____
Matthew Shoemaker, Mayor

_____
Rachel Tyczinski, City Clerk

2000 Model Franchise Agreement

THIS AGREEMENT effective this day of , 2023

BETWEEN:

THE CORPORATION OF THE CITY OF SAULT STE. MARIE

hereinafter called the "Corporation"

- and -

ENBRIDGE GAS INC.

hereinafter called the "Gas Company"

WHEREAS the Gas Company desires to distribute, store and transmit gas in the Municipality upon the terms and conditions of this Agreement;

AND WHEREAS by by-law passed by the Council of the Corporation (the "By-law"), the duly authorized officers have been authorized and directed to execute this Agreement on behalf of the Corporation;

THEREFORE the Corporation and the Gas Company agree as follows:

Part I - Definitions

1. **In this Agreement**

(a) “decommissioned" and "decommissions" when used in connection with parts of the gas system, mean any parts of the gas system taken out of active use and purged in accordance with the applicable CSA standards and in no way affects the use of the term 'abandoned' pipeline for the purposes of the *Assessment Act*;

(b) “Engineer/Road Superintendent" means the most senior individual employed by the Corporation with responsibilities for highways within the Municipality or the person designated by such senior employee or such other person as may from time to time be designated by the Council of the Corporation;

(c) "gas" means natural gas, manufactured gas, synthetic natural gas, liquefied petroleum gas or propane-air gas, or a mixture of any of them, but does not include a liquefied petroleum gas that is distributed by means other than a pipeline;

(d) "gas system" means such mains, plants, pipes, conduits, services, valves, regulators, curb boxes, stations, drips or such other equipment as the Gas Company may require or deem desirable for the distribution, storage and transmission of gas in or through the Municipality;

(e) "highway" means all common and public highways and shall include any bridge, viaduct or structure forming part of a highway, and any public square, road allowance or walkway and shall include not only the travelled portion of such highway, but also ditches, driveways, sidewalks, and sodded areas forming part of the road allowance now or at any time during the term hereof under the jurisdiction of the Corporation;

(f) "Model Franchise Agreement" means the form of agreement which the Ontario Energy Board uses as a standard when considering applications under the *Municipal Franchises Act*. The Model Franchise Agreement may be changed from time to time by the Ontario Energy Board;

(g) "Municipality" means the territorial limits of the Corporation on the date when this Agreement takes effect, and any territory which may thereafter be brought within the jurisdiction of the Corporation;

(h) "Plan" means the plan described in Paragraph 5 of this Agreement required to be filed by the Gas Company with the Engineer/Road Superintendent prior to commencement of work on the gas system; and

(i) whenever the singular, masculine or feminine is used in this Agreement, it shall be considered as if the plural, feminine or masculine has been used where the context of the Agreement so requires.

Part II - Rights Granted

2. **To provide gas service**

The consent of the Corporation is hereby given and granted to the Gas Company to distribute, store and transmit gas in and through the Municipality to the Corporation and to the inhabitants of the Municipality.

3. **To Use Highways**

Subject to the terms and conditions of this Agreement the consent of the Corporation is hereby given and granted to the Gas Company to enter upon all highways now or at any time hereafter under the jurisdiction of the Corporation and to lay, construct, maintain, replace, remove, operate and repair a gas system for the distribution, storage and transmission of gas in and through the Municipality.

4. **Duration of Agreement and Renewal Procedures**

(a) If the Corporation has not previously received gas distribution services, the rights hereby given and granted shall be for a term of 20 years from the date of final passing of the By-law.

or

(b) If the Corporation has previously received gas distribution services, the rights hereby given and granted shall be for a term of 20 years from the date of final passing of the By-law provided that, if during the 20 year term of this Agreement, the Model Franchise Agreement is changed, then on the 7th anniversary and on the 14th anniversary of the date of the passing of the By-law, this Agreement shall be deemed to be amended to incorporate any changes in the Model Franchise Agreement in effect on such anniversary dates. Such deemed amendments shall not apply to alter the 20 year term.

(c) At any time within two years prior to the expiration of this Agreement, either party may give notice to the other that it desires to enter into negotiations for a renewed franchise upon such terms and conditions as may be agreed upon. Until such renewal has been settled, the terms and conditions of this Agreement shall continue, notwithstanding the expiration of this Agreement. This shall not preclude either party from applying to the Ontario Energy Board for a renewal of the Agreement pursuant to section 10 of the *Municipal Franchises Act*.

Part III – Conditions

5. **Approval of Construction**

(a) The Gas Company shall not undertake any excavation, opening or work which will disturb or interfere with the surface of the travelled portion of any highway unless a permit therefor has first been obtained from the Engineer/Road Superintendent and all work done by the Gas Company shall be to his satisfaction.

(b) Prior to the commencement of work on the gas system, or any extensions or changes to it (except service laterals which do not interfere with municipal works in the highway), the Gas Company shall file with the Engineer/Road Superintendent a Plan, satisfactory to the Engineer/Road Superintendent, drawn to scale and of sufficient detail considering the complexity of the specific locations involved, showing the highways in which it proposes to lay its gas system and the particular parts thereof it proposes to occupy.

(c) The Plan filed by the Gas Company shall include geodetic information for a particular location:

(i) where circumstances are complex, in order to facilitate known projects, including projects which are reasonably anticipated by the Engineer/Road Superintendent, or

(ii) when requested, where the Corporation has geodetic information for its own services and all others at the same location.

(d) The Engineer/Road Superintendent may require sections of the gas system to be laid at greater depth than required by the latest CSA standard for gas pipeline systems to facilitate known projects or to correct known highway deficiencies.

(e) Prior to the commencement of work on the gas system, the Engineer/Road Superintendent must approve the location of the work as shown on the Plan filed by the Gas Company, the timing of the work and any terms and conditions relating to the installation of the work.

(f) In addition to the requirements of this Agreement, if the Gas Company proposes to affix any part of the gas system to a bridge, viaduct or other structure, if the Engineer/Road Superintendent approves this proposal, he may require the Gas Company to comply with special conditions or to enter into a separate agreement as a condition of the approval of this part of the construction of the gas system.

(g) Where the gas system may affect a municipal drain, the Gas Company shall also file a copy of the Plan with the Corporation's Drainage Superintendent for purposes of the *Drainage Act*, or such other person designated by the Corporation as responsible for the drain.

(h) The Gas Company shall not deviate from the approved location for any part of the gas system unless the prior approval of the Engineer/Road Superintendent to do so is received.

(i) The Engineer/Road Superintendent's approval, where required throughout this Paragraph, shall not be unreasonably withheld.

(j) The approval of the Engineer/Road Superintendent is not a representation or warranty as to the state of repair of the highway or the suitability of the highway for the gas system.

6. **As Built Drawings**

The Gas Company shall, within six months of completing the installation of any part of the gas system, provide two copies of "as built" drawings to the Engineer/Road Superintendent. These drawings must be sufficient to accurately establish the location, depth (measurement between the top of the gas system and the ground surface at the time of installation) and distance of the gas system. The "as built" drawings shall be of the same quality as the Plan and, if the approved pre-construction plan included elevations that were geodetically referenced, the "as built" drawings shall similarly include elevations that are geodetically referenced. Upon the request of the Engineer/Road Superintendent, the Gas Company shall provide one copy of the drawings in an electronic format and one copy as a hard copy drawing.

7. **Emergencies**

In the event of an emergency involving the gas system, the Gas Company shall proceed with the work required to deal with the emergency, and in any instance where prior approval of the Engineer/Road Superintendent is normally required for the work, the Gas Company shall use its best efforts to immediately notify the Engineer/Road Superintendent of the location and nature of the emergency and the work being done and, if it deems appropriate, notify the police force, fire or other emergency services having jurisdiction. The Gas Company shall provide the Engineer/Road Superintendent with at least one 24 hour emergency contact for the Gas Company and shall ensure the contacts are current.

8. **Restoration**

The Gas Company shall well and sufficiently restore, to the reasonable satisfaction of the Engineer/Road Superintendent, all highways, municipal works or improvements which it may excavate or interfere with in the course of laying, constructing, repairing or removing its gas system, and shall make good any settling or subsidence thereafter caused by such excavation or interference. If the Gas Company fails at any time to do any work required by this Paragraph within a reasonable period of time, the Corporation may do or cause such work to be done and the Gas Company shall, on demand, pay the Corporation's reasonably incurred costs, as certified by the Engineer/Road Superintendent.

9. **Indemnification**

The Gas Company shall, at all times, indemnify and save harmless the Corporation from and against all claims, including costs related thereto, for all damages or injuries including death to any person or persons and for damage to any property, arising out of the Gas Company operating, constructing, and maintaining its gas system in the Municipality, or utilizing its gas system for the carriage of gas owned by others. Provided that the Gas Company shall not be required to indemnify or save harmless the Corporation from and against claims, including costs related thereto, which it may incur by reason of damages or injuries including death to any person or persons and for damage to any property, resulting from the negligence or wrongful act of the Corporation, its servants, agents or employees.

10. **Insurance**

(a) The Gas Company shall maintain Comprehensive General Liability Insurance in sufficient amount and description as shall protect the Gas Company and the Corporation from claims for which the Gas Company is obliged to indemnify the Corporation under Paragraph 9. The insurance policy shall identify the Corporation as an additional named insured, but only with respect to the operation of the named insured (the Gas Company). The insurance policy shall not lapse or be cancelled without sixty (60) days' prior written notice to the Corporation by the Gas Company.

(b) The issuance of an insurance policy as provided in this Paragraph shall not be construed as relieving the Gas Company of liability not covered by such insurance or in excess of the policy limits of such insurance.

(c) Upon request by the Corporation, the Gas Company shall confirm that premiums for such insurance have been paid and that such insurance is in full force and effect.

11. **Alternative Easement**

The Corporation agrees, in the event of the proposed sale or closing of any highway or any part of a highway where there is a gas line in existence, to give the Gas Company reasonable notice of such proposed sale or closing and, if it is feasible, to provide the Gas Company with easements over that part of the highway proposed to be sold or closed sufficient to allow the Gas Company to preserve any part of the gas system in its then existing location. In the event that such easements cannot be provided, the Corporation and the Gas Company shall share the cost of relocating or altering the gas system to facilitate continuity of gas service, as provided for in Paragraph 12 of this Agreement.

12. **Pipeline Relocation**

(a) If in the course of constructing, reconstructing, changing, altering or improving any highway or any municipal works, the Corporation deems that it is necessary to take up, remove or change the location of any part of the gas system, the Gas Company shall, upon notice to do so, remove and/or relocate within a reasonable period of time such part of the gas system to a location approved by the Engineer/Road Superintendent.

(b) Where any part of the gas system relocated in accordance with this Paragraph is located on a bridge, viaduct or structure, the Gas Company shall alter or relocate that part of the gas system at its sole expense.

(c) Where any part of the gas system relocated in accordance with this Paragraph is located other than on a bridge, viaduct or structure, the costs of relocation shall be shared between the Corporation and the Gas Company on the basis of the total relocation costs, excluding the value of any upgrading of the gas system, and deducting any contribution paid to the Gas Company by others in respect to such relocation; and for these purposes, the total relocation costs shall be the aggregate of the following:

(i) the amount paid to Gas Company employees up to and including field supervisors for the hours worked on the project plus the current cost of fringe benefits for these employees,

(ii) the amount paid for rental equipment while in use on the project and an amount, charged at the unit rate, for Gas Company equipment while in use on the project,

(iii) the amount paid by the Gas Company to contractors for work related to the project,

(iv) the cost to the Gas Company for materials used in connection with the project, and

(v) a reasonable amount for project engineering and project administrative costs which shall be 22.5% of the aggregate of the amounts determined in items (i), (ii), (iii) and (iv) above.

(d) The total relocation costs as calculated above shall be paid 35% by the Corporation and 65% by the Gas Company, except where the part of the gas system required to be moved is located in an unassumed road or in an unopened road allowance and the Corporation has not approved its location, in which case the Gas Company shall pay 100% of the relocation costs.

Part IV - Procedural And Other Matters

13. **Municipal By-laws of General Application**

The Agreement is subject to the provisions of all regulating statutes and all municipal by-laws of general application, except by-laws which have the effect of amending this Agreement.

14. **Giving Notice**

Notices may be delivered to, sent by facsimile or mailed by prepaid registered post to the Gas Company at its head office or to the authorized officers of the Corporation at its municipal offices, as the case may be.

15. **Disposition of Gas System**

(a) If the Gas Company decommissions part of its gas system affixed to a bridge, viaduct or structure, the Gas Company shall, at its sole expense, remove the part of its gas system affixed to the bridge, viaduct or structure.

(b) If the Gas Company decommissions any other part of its gas system, it shall have the right, but is not required, to remove that part of its gas system. It may exercise its right to remove the decommissioned parts of its gas system by giving notice of its intention to do so by filing a Plan as required by Paragraph 5 of this Agreement for approval by the Engineer/Road Superintendent. If the Gas Company does not remove the part of the gas system it has decommissioned and the Corporation requires the removal of all or any part of the decommissioned gas system for the purpose of altering or improving a highway or in order to facilitate the construction of utility or other works in any highway, the Corporation may remove and dispose of so much of the decommissioned gas system

as the Corporation may require for such purposes and neither party shall have recourse against the other for any loss, cost, expense or damage occasioned thereby. If the Gas Company has not removed the part of the gas system it has decommissioned and the Corporation requires the removal of all or any part of the decommissioned gas system for the purpose of altering or improving a highway or in order to facilitate the construction of utility or other works in a highway, the Gas Company may elect to relocate the decommissioned gas system and in that event Paragraph 12 applies to the cost of relocation.

16. **Use of Decommissioned Gas System**

(a) The Gas Company shall provide promptly to the Corporation, to the extent such information is known:

(i) the names and addresses of all third parties who use decommissioned parts of the gas system for purposes other than the transmission or distribution of gas; and

(ii) the location of all proposed and existing decommissioned parts of the gas system used for purposes other than the transmission or distribution of gas.

(b) The Gas Company may allow a third party to use a decommissioned part of the gas system for purposes other than the transmission or distribution of gas and may charge a fee for that third party use, provided

(i) the third party has entered into a municipal access agreement with the Corporation; and

(ii) the Gas Company does not charge a fee for the third party's right of access to the highways.

(c) Decommissioned parts of the gas system used for purposes other than the transmission or distribution of gas are not subject to the provisions of this Agreement. For decommissioned parts of the gas system used for purposes other than the transmission and distribution of gas, issues such as relocation costs will be governed by the relevant municipal access agreement.

17. **Franchise Handbook**

The Parties acknowledge that operating decisions sometimes require a greater level of detail than that which is appropriately included in this Agreement. The Parties agree to look for guidance on such matters to the Franchise Handbook prepared by the Association of Municipalities of Ontario and the gas utility companies, as may be amended from time to time.

18. **Other Conditions**

None.

19. **Agreement Binding Parties**

This Agreement shall extend to, benefit and bind the parties thereto, their successors and assigns, respectively.

IN WITNESS WHEREOF the parties have executed this Agreement effective from the date written above.

THE CORPORATION OF THE CITYOF SAULT STE. MARIE

Per:

_____

Matthew Shoemaker, Mayor

Per:

_____

Rachel Tyczinski, City Clerk

ENBRIDGE GAS INC.

Per:

_____

Mark Kitchen, Director, Regulatory Affairs

Per:

_____

Nicole Lehto, Director, Northern Region Operations