



**CN Milton Logistics Hub: 2022
Construction Acoustic Environment
Follow-up Program Results**

Final Report

March 30, 2023

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CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results

March 30, 2023

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Acronyms / Abbreviations

CN	Canadian National Railway Company
CTA	Canadian Transportation Agency
CTNE	Combined Total Noise Exposure
dBA	Decibel, A-weighted
FTA	Federal Transit Administration
HA	Highly Annoyed
HC	Health Canada
IAAC	Impact Assessment Agency of Canada
L _d	Daytime sound level
L _n	Nighttime sound level
L _{eq}	Energy Equivalent Sound Level
L _{dn}	Day-night average sound level
L _{max}	Maximum sound level
MECP	Ontario Ministry of the Environment, Conservation, and Parks
PDA	Project Development Area
PNE	Project Noise Exposure
% HA	Percent Highly Annoyed
SLM	Sound Level Meter
WHO	World Health Organization



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1 Introduction

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1 Introduction

Stantec Consulting Ltd. (Stantec) has been retained by the Canadian National Railway Company (CN) to conduct an acoustic follow-up program (FUP) for the Milton Logistics Hub (the Project) in the Town of Milton, within the Regional Municipality of Halton (Halton Region), Ontario.

This report documents the implementation of the Acoustic Environment Follow-up Program (Stantec Consulting Ltd. 2022) for construction during the 2022 construction period.

1.1 Program Design Considerations

This FUP has been developed to comply with the conditions of approval in the Minister of Environment and Climate Change's Decision Statement issued January 21, 2021, and amended July 16, 2022 (Minister of the Environment and Climate Change 2022). As described in the Acoustic Environment FUP, the noise FUP was developed in accordance with Condition 4.10 of the Decision Statement, and consists of the following components:

- Monitoring of noise levels during each phase of construction to verify the effectiveness of the noise mitigation, including during the first four weeks of each construction phase (per Condition 4.10.1);
- Monitoring of noise levels during the first four weeks of operations, and during four weeks once the terminal reaches full operational capacity, to verify the effectiveness of the noise mitigation and confirm that the sound levels at key locations do not exceed specified thresholds (Condition 4.10.2);
- Monitoring of low frequency noise levels during operations to verify the effectiveness of the noise mitigation and confirm that the sound levels at key locations do not exceed specified thresholds (Condition 4.10.3).
- Development and implementation of modified or additional mitigation measures if the results of the noise monitoring exceed specified thresholds (Condition 4.10.4)

In addition to the monitoring period (first four weeks of each construction phase) required under Condition 4.10, the noise FUP includes an additional four-week monitoring period during each construction phase when construction activities are anticipated to result in the greatest noise effects, as determined in consultation with Health Canada (per EIS commitments).



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Through the established community consultation committee process, concerns raised by the local community related to noise or any noise complaints received through the noise complaints protocol were to be reviewed and addressed through the adaptive management process.

1.2 Activities Undertaken During Reporting Year

In Q1 of 2022, CN undertook Phase One site preparation activities, such as surveying, delineating construction site boundaries, and installing site fencing; installation of monitoring equipment; placement of stakes/demarcation materials for site safety; clearing and grubbing of vegetated areas; access road and laydown area construction; and the installation of construction site offices and other components.

In Q2, site activities included excavation of stormwater management (SWM) pond #2; preparation of the habitat enhancement areas accessible during this time of year; continued excavation work; removal of CN-owned buildings; initiation of grading activities on the realignment of Indian Creek and Tributary A; and work on access roads, including the installation of a temporary bridged access road over Indian Creek.

Following the fisheries timing window (March 15 to June 30), CN commenced construction of the portion of the Tributary A realignment channel within the existing agricultural pond and continued with construction of the associated Tributary A habitat structures and offline portions of culverts 2A and 2B. Other activities in Q3 included site grading activities; continued construction of SWM pond #2, including the outlet structure, and initiation of SWM pond 1; site grading and earth moving activities; continued offline construction of the Indian Creek realignment channel and associated habitat structures; and the construction of an interim noise berm along Lower Base Line and the eastern property boundary near lay down area 1.

Finally, in Q4, CN connected the new realigned portion of Tributary A, as well as culvert 2B and the downstream portion of culvert 2A, to the existing Tributary A. Other activities included realignment of the Sun Canadian pipeline; removal of the temporary bridge over Indian Creek; completion of in-water and bank enhancements along Indian Creek; continued offline construction of the Indian Creek realignment channel and associated habitat structures; initiation of the realignment of the existing mainline, including grading and drainage; and completion of site stabilization measures in preparation for the winter period.



2 Methods

2.1 Monitoring Periods

Noise monitoring was conducted in two separate four-week blocks during the 2022 construction period. These blocks are identified by round number and associated construction phase:

1. Phase 1 – Round 1: January 24 to February 20, 2022, was the first four-week period of Phase 1 construction; and
2. Phase 1 – Round 2: November 21 to December 18, 2022, was the four-week period of Phase 1 when construction activities were expected to result in the greatest noise impact.

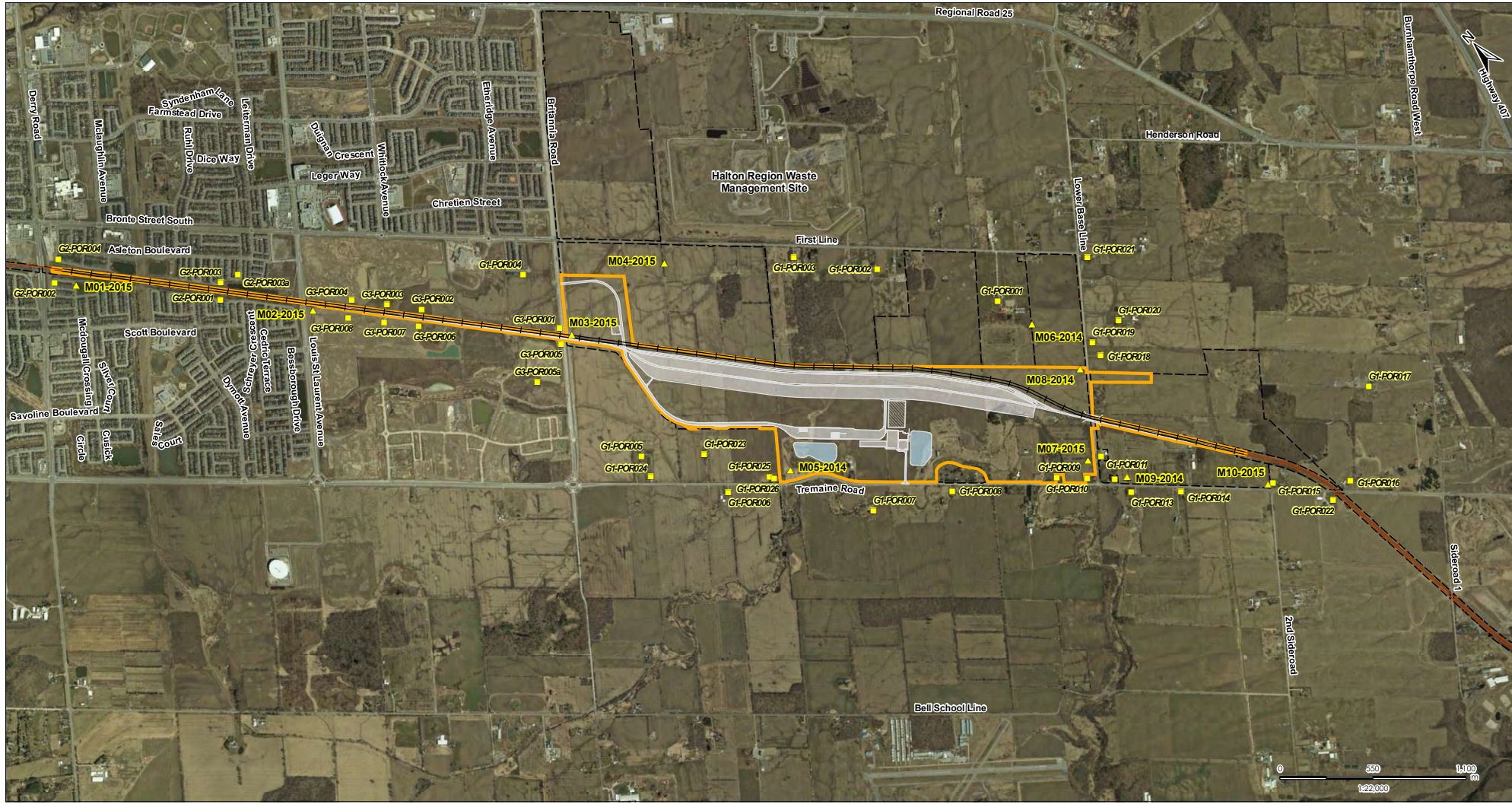
The four-week period for Phase 1 – Round 2 was determined in consultation with Health Canada (HC) and in consideration of the nature of the expected construction activities including type, schedule, and location of activities relative to the existing receptors. Further, the four-week period was selected to evaluate the effectiveness of the interim noise berm installed following Phase 1 – Round 1.

2.2 Noise Monitoring Locations

As per the Acoustic Environment FUP, noise levels during construction were monitored at ten (10) locations near the Project Development Area (PDA). These locations are the same as those used to establish the existing noise exposure (i.e., baseline noise levels) at the receptors assessed in the CN Milton Logistics Hub - Technical Data Report Noise Effects Assessment (Stantec Consulting Ltd. 2015). Monitoring locations and receptors in relation to the PDA are shown in Figure 2.1. Appendix A provides a photolog of the noise monitoring locations.



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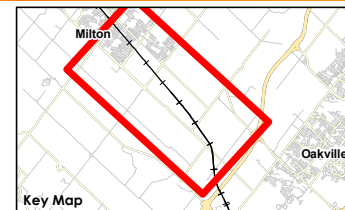


Legend

- Project Development Area
- Existing Single Track Mainline
- Existing Double Track Mainline
- Double Track - Mainline
- Project Component
- CN-Owned Property
- SWM Pond
- Receptor Location
- ▲ Noise Monitoring Location

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base Features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2015. Site layout: July 10, 2015.
3. Orthomagey © First Base Solutions, 2023. Imagery taken in 2021.



Client/Project
 Canadian National Railway
 Milton Logistics Hub
 Acoustic Follow-up Program

Figure No.
2.1

Title
**Monitoring Locations and Receptors
 Near the Project Development Area**

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Table 2.1 provides a summary of the monitoring locations including the represented baseline receptors from the CN Milton Logistics Hub - Technical Data Report Noise Effects Assessment (TDR). Each monitoring location ID listed in Table 2.1 and shown in Figure 2.1 includes a 4-digit suffix which denotes the year within which the corresponding existing noise exposure (baseline) measurement(s) was taken. For readability, the 4-digit suffix has been omitted when referring to these monitoring locations hereafter.

Table 2.1 Noise Monitoring Locations

Monitoring Locations¹ (ID)	Represented Receptors²	Receptor Description
M01-2015	G2-POR001 to G2-POR004	Existing Subdivisions along the existing mainline between Louis St Laurent Avenue and Derry Road
M02-2015	G1-POR022, G3-POR002 to G3-POR008	Existing House south of Tremaine Road and 2nd Sideroad, and Future Developments along the existing mainline between Britannia Road and Louis St. Laurent Avenue
M03-2015	G3-POR001, G3-POR005	Future Developments along the existing mainline just north of Britannia Road
M04-2015	G1-POR002 to G1-POR004, G1-POR017	Existing Houses along First Line between Lower Base Line and Britannia Road
M05-2014	G1-POR005 to G1-POR007, G1-POR023 to G1-POR026	Existing Houses along Tremaine Road
M06-2014	G1-POR001	Existing House northwest of Lower Base Line and First Line intersection
M07-2015	G1-POR011	Existing House southeast of Lower Base Line and Tremaine Road intersection
M08-2014	G1-POR018 to G1-POR021	Existing Houses along Lower Base Line, east of existing mainline
M09-2014	G1-POR008 to G1-POR014	Existing Houses along Tremaine Road, north and south of Lower Base Line
M10-2015	G1-POR015 to G1-POR016	Existing Houses along Tremaine Road, south of 2nd Sideroad

NOTES:



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1. The last four digits in the Monitoring Locations (ID) represents the year within which the associated existing noise exposure (baseline) measurement(s) was taken
2. Refers to the receptors whose existing noise exposure was established through monitoring at the corresponding monitor location.
 - G1 prefix refers to receptors representing existing residences
 - G2 prefix refers to receptors representing existing subdivisions
 - G3 prefix refers to receptors representing future subdivision/urban developments.

Due to site availability and equipment security constraints, monitors M05, M07, and M08 were not placed at the locations shown in Figure 2.1 for some periods. M05 was placed up to 10 m closer to Tremaine Road during Phase 1 – Round 1. M08 was placed approximately 135 m closer to the CN rail line and 10 m closer to Lower Base Line during week 1 of Phase 1 – Round 1. And M07 was placed up to 10 m closer to Lower Base Line during Phase 1 – Round 1 and Round 2.

Noise levels measured at M05, M07, and M08 during the affected periods may have been inflated relative to the levels that would have been expected at their proper monitoring locations and respective receptors. This inflation would likely have been caused by increased noise contributions from road and rail sources, as a result of the reduced setback distances from the affected monitoring locations. Therefore, the noise levels at M05, M07, and M08 during the affected periods are considered conservative when assessing them against the applicable noise criteria.

2.3 Criteria

In accordance with Condition 4.6 of the Decision Statement, noise from all phases of the Project shall be managed such that Project-related noise levels at any receptor identified in the TDR (see represented receptors in Table 2.1) change by less than 1 to 5 dB as set out in the United States Federal Transit Administration (US FTA) Transit Noise and Vibration Impact Assessment Manual (U.S. Federal Transit Administration 2006) and the level of highly annoyed to change by no more than 6.5 % as set out in the Health Canada (HC) publication Guidance for Evaluating Human Health Impacts in Environmental Assessment Noise (Health Canada 2017). These limits are equivalent to those used in the TDR noise assessment. Table 2.2 summarizes the applicable noise limits (criteria)¹ for the FUP.

¹ The Decision Statement identifies nighttime noise criteria for the operational, not construction, phase of the Project. Nighttime noise evaluation will be addressed through the FUP applicable to operations.



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Table 2.2 FUP Construction Noise Criteria

Monitoring Location (ID)	US FTA Criteria				Community Annoyance
	Existing Noise Exposure, L_{dn}^1 (dBA)	Allowable Project Noise Exposure, L_{dn}^2 (dBA)	Allowable Combined Total Noise Exposure, L_{dn}^3 (dBA)	Allowable Noise Exposure Increase ⁴ (dB)	Allowable Percent Increase (%) in Percent Highly Annoyed (HA)
M01	57	56	60	3	6.5
M02	67	62	68	1	
M03	77	65	77	0	
M04	56	56	59	3	
M05	57	56	60	3	
M06	51	54	56	5	
M07	59	57	61	2	
M08	53	54	57	4	
M09	58	57	60	2	
M10	60	58	62	2	

NOTES:

- Existing Noise Exposure L_{dn} refers to the existing noise levels (baseline acoustic environment) established in the TDR
- Project Noise Exposure L_{dn} refers to construction noise levels, independent of the extraneous noise (e.g., road and rail)
- Allowable Combined Total Noise Exposure noise level L_{dn} refers to the criteria for the cumulative noise level of construction noise and existing noise exposure from column 1
- Noise exposure increase is the difference between the Combined Total Noise Exposure and Existing Noise Exposure



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The US FTA criterion is expressed in terms of the day-night sound level (L_{dn}) which is an energy averaged 24-hour sound level with a 10 dB penalty applied to nighttime (23:00 to 07:00) sound levels. This penalty is applied to reflect a typical community's increased sensitivity to noise during nighttime.

The applicable L_{dn} limits are presented as an allowable Project noise exposure (PNE) and an allowable combined total noise exposure (CTNE). For the construction noise monitoring, the PNE refers to the Project construction noise only and the CTNE refers to the cumulative noise level of construction noise and existing environmental noise (e.g., road and rail noise). PNE and CTNE limits generally increase with the existing noise exposure (i.e., baseline levels).

The applicable noise limits are also presented as an allowable noise exposure increase relative to the existing noise exposure. The allowable noise exposure increase is calculated as the difference between the allowable CTNE and the existing noise exposure. The allowable noise exposure increase is inversely proportional to the existing noise exposure. In other words, lower existing noise exposures allow for higher thresholds of change to the acoustic environment, and vice versa.

The HC criteria is based on the %HA metric which is a function of the L_{dn} . The %HA limit of 6.5% for the Project is expressed as an allowable increase in %HA. Research cited in the US FTA Transit Noise and Vibration Impact Assessment shows that community annoyance is engaged when the change in %HA is greater than 6.5%.

Where exceedances of either the FTA or HC criteria were identified and attributable to the Project, adaptive management measures (described in Section 2.4) were implemented.

2.4 Adaptive Management

The adaptive management is triggered when monitored noise levels exceed the applicable construction noise criteria. The adaptive management process involves the following:

1. Additional noise monitoring at specific receptors of interest to verify the source and/or confirm the receptor impact
2. Review of the construction methodology and recommendation of alternative construction methods (i.e., timing of construction activities, number of operating vehicles, spatial distribution of activities) in discussion with the contractor if construction noise exceedances attributable to the Project are confirmed
3. Investigate additional mitigation methods and implement them, as appropriate, if project-attributable exceedances persist



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CN will monitor and document any noise complaints received during construction and will respond in accordance with their complaint response protocol. Such complaints will be used to target further review of noise levels and corresponding construction activities to explore whether such activities are responsible for specific exceedances.

2.5 Instrumentation and Setup

Noise monitoring was conducted using Sigicom model INFRA S50 sound level meters (SLMs) paired with Sigicom model INFRA D10/ data loggers. These SLMs are capable of measuring multiple metrics (e.g., L_{eq} , L_{max}) simultaneously and recording audio samples. Table 2.3 provides a summary of the instrumentation used for the 2022 construction noise monitoring along with their serial numbers. Unless otherwise noted, the same instruments (i.e., same serial numbers) at each monitoring location were used for both Phase 1 – Round 1 and Round 2 monitoring.

Table 2.3 Instrumentation Summary

Monitoring Location (ID)	Instrument	Manufacturer	Model	Serial Number ¹
M01	Sound Level Meter	Sigicom	INFRA S50	14143
	Data Logger	Sigicom	INFRA D10	108339
M02	Sound Level Meter	Sigicom	INFRA S50	14159
	Data Logger	Sigicom	INFRA D10	108331(108333)
M03	Sound Level Meter	Sigicom	INFRA S50	14168
	Data Logger	Sigicom	INFRA D10	108334
M04	Sound Level Meter	Sigicom	INFRA S50	14164 (14196)
	Data Logger	Sigicom	INFRA D10	108338
M05	Sound Level Meter	Sigicom	INFRA S50	14193, 8305 ²
	Data Logger	Sigicom	INFRA D10	108336 (108195)
	Weather Station	Sigicom	INFRA X20WXT	14188



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Monitoring Location (ID)	Instrument	Manufacturer	Model	Serial Number ¹
M06	Sound Level Meter	Sigicom	INFRA S50	14165
	Data Logger	Sigicom	INFRA D10	108337
M07	Sound Level Meter	Sigicom	INFRA S50	14195, 5343 ²
	Data Logger	Sigicom	INFRA D10	108332
M08	Sound Level Meter	Sigicom	INFRA S50	14167
	Data Logger	Sigicom	INFRA D10	108335
M09	Sound Level Meter	Sigicom	INFRA S50	14197, 7498 ²
	Data Logger	Sigicom	INFRA D10	108340
M10	Sound Level Meter	Sigicom	INFRA S50	14169
	Data Logger	Sigicom	INFRA D10	108341
All	Acoustical Calibrator	Larson Davis	CAL200	4813

NOTES:

1. Bracketed serial numbers refer to the different instrument serial number used for Phase 1 – Round 2
2. Refers to an SLM that was replaced during Phase 1 – Round 1, due to equipment availability

The SLMs were set up to collect energy equivalent sound levels (L_{eq}) in 5-minute intervals. L_{dn} sound levels were calculated from the 5-minute L_{eq} . To qualify noise exceedances, the SLMs were set up to record audio samples based on the measured maximum noise level (L_{max}).

Consistent with the monitoring installation used for the baseline noise TDR (Stantec Consulting Ltd. 2015), the SLMs were mounted on a tripod or pole at 1.5 m above ground.

The SLMs were factory calibrated and maintained in conformance with the ISO 1996-2 (International Organization for Standardization 2017) and were field calibrated using a Larson Davis model CAL200 calibrator. Calibration Certificates for the instrumentation are provided in Appendix C.



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2.6 Weather

Inclement weather conditions have the potential to affect the accuracy of the measured noise levels. Consistent with NPC-103 (Ontario Ministry of Environment 1978) and manufacturer's recommendations, inclement weather conditions are considered to have occurred under any of the following conditions:

- Wind speed greater than 20 km/hour;
- Temperature outside of the operating range defined by the manufacturer of the sound level meter (-20°C to +50°C); and
- Precipitation has occurred.

Hourly data including wind speed, temperature, and precipitation was obtained from the on-site Sigicom model X20WXT weather station, installed at location M05 supplemented with weather data obtained from the Government of Canada Historical Climate database for the Hamilton RGB CS station (Climate ID 6153301). The Hamilton RGB CS station is the closest Government of Canada weather station to the Project with available hourly data. The weather data was reviewed to identify periods of inclement weather during the monitoring period. Noise data collected during inclement weather was excluded from the noise monitoring data analysis. Hourly inclement weather periods are noted with the measured data reported in Appendix D.

Some noise data collected were discarded from the analysis due to a suspected weather-related equipment malfunction. The affected data showed unusually low noise levels, as low as 15 dBA, and were determined to be due to ice accumulation on the sound level meter microphone from freezing temperatures immediately following periods of rain. There were no construction activities in the vicinity of the affected monitors during the affected periods. Appendix D notes the affected periods and monitoring locations.

2.7 Combined Total Noise Exposure (CTNE) Exceedances

Measured CTNE exceedances were qualified from a review of audio samples and daily progress reports. The daily progress reports for the 2022 monitoring period are attached as Appendix B.

CTNE exceedances were identified for further analysis when audible construction noise was recorded at the monitoring location and where nearby construction activities were confirmed.



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2 Methods

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To clarify the construction noise impact of any CTNE exceedances that were determined to have audible construction noise (and therefore potentially attributable to the project), the PNE (i.e., construction noise independent of the extraneous noise – road, rail) was separated from the monitored data and compared to the allowable PNE (see Table 2.1). The PNE was assumed to be equal to the measured daytime noise level L_d (07:00 to 23:00) and then converted into an L_{dn} . This approach further isolates the construction noise (i.e., PNE) impact by eliminating the nighttime noise contribution when no construction was occurring. This provides a conservative PNE estimate since it assumes that construction activity occurred continuously between 07:00 and 23:00, and that construction noise was the dominant noise source measured at the monitoring locations during this period.



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3 Phase 1 – Round 1

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3 Phase 1 – Round 1

The following sub-sections present the construction monitoring results for Phase 1 – Round 1 undertaken from January 24 to February 20, 2022. Section 3.2 includes discussion on how the results conform to the predictions in the TDR, the effectiveness of mitigation measures implemented prior to Phase 1 – Round 1, and additional mitigation measures implemented through the Adaptive Management process.

3.1 Results

A summary of the construction noise monitoring results for Phase 1 – Round 1 is provided in Table 3.1 and is presented in terms of the measured CTNE and change in %HA. For each metric, the results include the number of identified exceedances with audible construction noise and confirmed activities, and the total number of identified exceedances. Exceedances with audible construction noise and confirmed activities are further assessed in Section 3.2.1 to determine whether they are attributable to the Project. Weekly monitoring summaries and collected hourly sound levels are presented in Appendix D.

Stantec understands that no project-related noise complaints were received during the Phase 1 – Round 1 construction monitoring period.



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3 Phase 1 – Round 1
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Table 3.1 Phase 1 – Round 1, CTNE and Change in %HA Summary

Monitoring Location (ID)	Combined Total Noise Exposure (CTNE)			Change in %HA		
	Measured, Ldn (dBA)	Allowable, Ldn (dBA)	Exceedance Count (With Audible Construction Noise and Confirmed Activities /Total)	Calculated (%)	Allowable (%)	Exceedance Count (With Audible Construction Noise and Confirmed Activities /Total)
M01 ¹	52 to 60	60	0/0	-2.5 to 1.9	6.5	0/0
M02 ¹	64 to 73	68	0/6	-4.9 to 13.6		0/3
M03	65 to 74	77	0/0	-29.4 to -10.4		0/0
M04	49 to 59	59	0/0	-2.8 to 2.4		0/0
M05	53 to 60	60	0/0	-1.9 to 2.3		0/0
M06	49 to 66	56	0/5	-0.5 to 13.2		0/1
M07	51 to 64	61	2/3	-4.3 to 6.1		0/0
M08 ²	52 to 64	57	1/13 ³	-0.3 to 9.0		0/2
M09	54 to 64	60	0/4	-2.2 to 6.5		0/0
M10	56 to 62	62	0/0	-2.9 to 2.4		0/0

NOTES:

1. M01 and M02 are located more than 1 km from the limit of Phase 1 Activities; therefore, construction noise contributions to overall sound levels at those locations are expected to be negligible
2. M08 was located approximately 135 m closer to the CN rail line and 10 m closer to Lower Base Line during week 1 of monitoring. M08 was relocated to the proper location, shown in Figure 2.1, during week 2 of monitoring and maintained at the proper location for the remainder of Phase 1 – Round 1
3. 6 out of the 13 identified exceedances were identified when M08 was not at the proper location. The balance of the exceedances, including those with audible construction noise and confirmed activities, was identified at the proper M08 location



3.2 Discussion

3.2.1 Conformity with Assessment Predictions

This section presents a discussion on the conformity of Phase 1 – Round 1 monitoring results with the TDR assessment predictions, as they relate to meeting the applicable noise criteria.

Table 3.1 lists three CTNE exceedances (with audible construction noise and confirmed activities) of the FTA criteria that were identified during Phase 1 – Round 1: two at M07 and one at M08. No CTNE exceedances (with audible construction noise and confirmed activities) of the allowable change in %HA have been identified for these locations or any other location.

To determine whether the identified CTNE exceedances were attributable to the Project, the PNE was separated from the monitored data and compared to the allowable PNE (see Table 2.2). Table 3.2 lists the identified CTNE exceedances along with the estimated PNE for M07 and M08.



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3 Phase 1 – Round 1
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Table 3.2 Phase 1 – Round 1, Combined Total Noise Exposure Exceedances and Project Noise Exposure

Monitoring Location (ID)	Date	CTNE, L _{dn} (dBA)	Daytime Noise Level, L _d (dBA)	PNE, L _{dn} (dBA)		PNE Exceedance? (Y/N)
		Measured	Measured	Estimated	Allowable	
M07	Tues-Jan-25-2022	62	60	58	57	Y
M07	Mon-Jan-31-2022	64	58	56	57	N
M08	Tues-Feb-1-2022	61	55	53	54	N



CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results

3 Phase 1 – Round 1

March 30, 2023

At the M07 monitoring location, the PNE marginally exceeded the allowable PNE limit (57 dBA) on January 25, 2022. Through discussions with the on-site environmental monitor and construction contractor, the exceedance measured on January 25, 2022, was likely due to M07 being located next to the clearing and grubbing path. This is a specific circumstance where M07 would have been capturing excavator noise from only a few metres away; therefore, measured noise levels at M07 would overestimate construction noise levels at the actual receptor (G1-POR011) located across Lower Base Line and approximately 70 m away from the M07 monitoring location.

Based on the location of construction activities relative to G1-POR011 and M07, and an expected noise attenuation of at least 3 dB per doubling of distance, the PNE at G1-POR011 was likely 1 dB or lower than at M07. Therefore, the PNE was likely within the allowable limit at G1-POR011 where the limit (Table 2.2) applies. Further, it is understood that clearing and grubbing activities near M07 have been largely completed, so the likelihood of a similar exceedance event occurring in the future would be minimal. Should a confirmed construction-related exceedance at M07 be identified regularly in the future, the adaptive management process will be implemented.

At M07, the PNE did not exceed the allowable limit on January 31, 2022. The result for January 31, 2022, suggests that the previously identified exceedance (64 dBA) of the allowable CTNE was driven by existing environmental sources (e.g., road and rail).

At M08, the PNE did not exceed the allowable limit on February 1, 2022. The result for February 1, 2022, suggests that the previously identified CTNE exceedance (61 dBA) was driven by existing environmental sources. Notwithstanding this, the adaptive management process was implemented as a discretionary measure to consider the increase in activities expected near M08 as Phase 1 progresses. The adaptive management for M08 is further discussed in Section 3.2.3.

The TDR states that it is feasible for Project construction to take place and meet the FTA and HC guidelines. The change in acoustical environment during Phase 1 of construction is expected to have an acceptable effect, with the incorporation of noise mitigation measures discussed in Section 5.2.2 of the TDR and Section 3.2.2 of this report.

The Phase 1 – Round 1 monitoring results agree with the TDR assessment since the measured noise levels (CTNE, PNE) and change in %HA meet the allowable limits in Table 2.2. The identified exceedance during Phase 1 – Round 1 which was attributable to the Project was unlikely to have caused an exceedance at G1-POR011 where the allowable limits apply. Other identified exceedances were determined to be driven by other environmental noise sources.



CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results

3 Phase 1 – Round 1

March 30, 2023

3.2.2 Effectiveness of Mitigation Measures

Prior to the start of monitoring (Phase 1 – Round 1), the construction contractor had implemented the following mitigation measures and best practices:

- Properly maintain all construction equipment according to manufacturer's recommendations and fit with efficient muffling devices as well as be in accordance with criteria stated in the Environmental Protection Plan (EPP)
- Limit construction activities to within the daytime period when ambient noise levels are expected to be higher.
- Site construction staging and laydown areas to avoid/reduce adverse impacts to sensitive receptors
- Limit the overall sound power level of generators used for construction activity to 107 dBA for each individual unit
- Minimize drop heights of materials and eliminate uncontrolled tailgate banging
- Reduce reverse operations by arranging equipment to enter and leave the Site in the same direction, where feasible.
- Restrict on-site vehicle traffic to approved access routes to and from the Project site area.
- Establish and enforce on-site speed limits, including education, signage
- Implement a no idling policy to control mobile equipment and other vehicle emissions, where applicable (i.e., construction equipment will be turned off when not in use)

These mitigation measures allowed construction noise during Phase 1 – Round 1 to meet the applicable noise criteria. Therefore, the mitigation measures are considered effective.

Upon completion of the Phase 1 – Round 1, CN worked with the construction contractor to implement a noise barrier (discussed in Section 3.2.3) and advance the construction of a permanent noise barrier already identified for construction as additional mitigation for future construction activities. The effectiveness of the noise barrier is discussed in Section 4.2.2.



CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results

3 Phase 1 – Round 1

March 30, 2023

3.2.3 Adaptive Management

The adaptive management process was followed to investigate the likelihood of future exceedances at the receptors near M08.

A review of expected activities, timing, and distribution of equipment showed that future Phase 1 activities may have the potential to result in increased construction noise relative to Phase 1 – Round 1 in the area east of the mainline and north of Lower Base Line. To proactively address this, a technical review of mitigation measures was undertaken, and plans to construct an interim noise berm were proposed by CN and constructed in September 2022 ahead of the Phase 1 – Round 2 monitoring period.

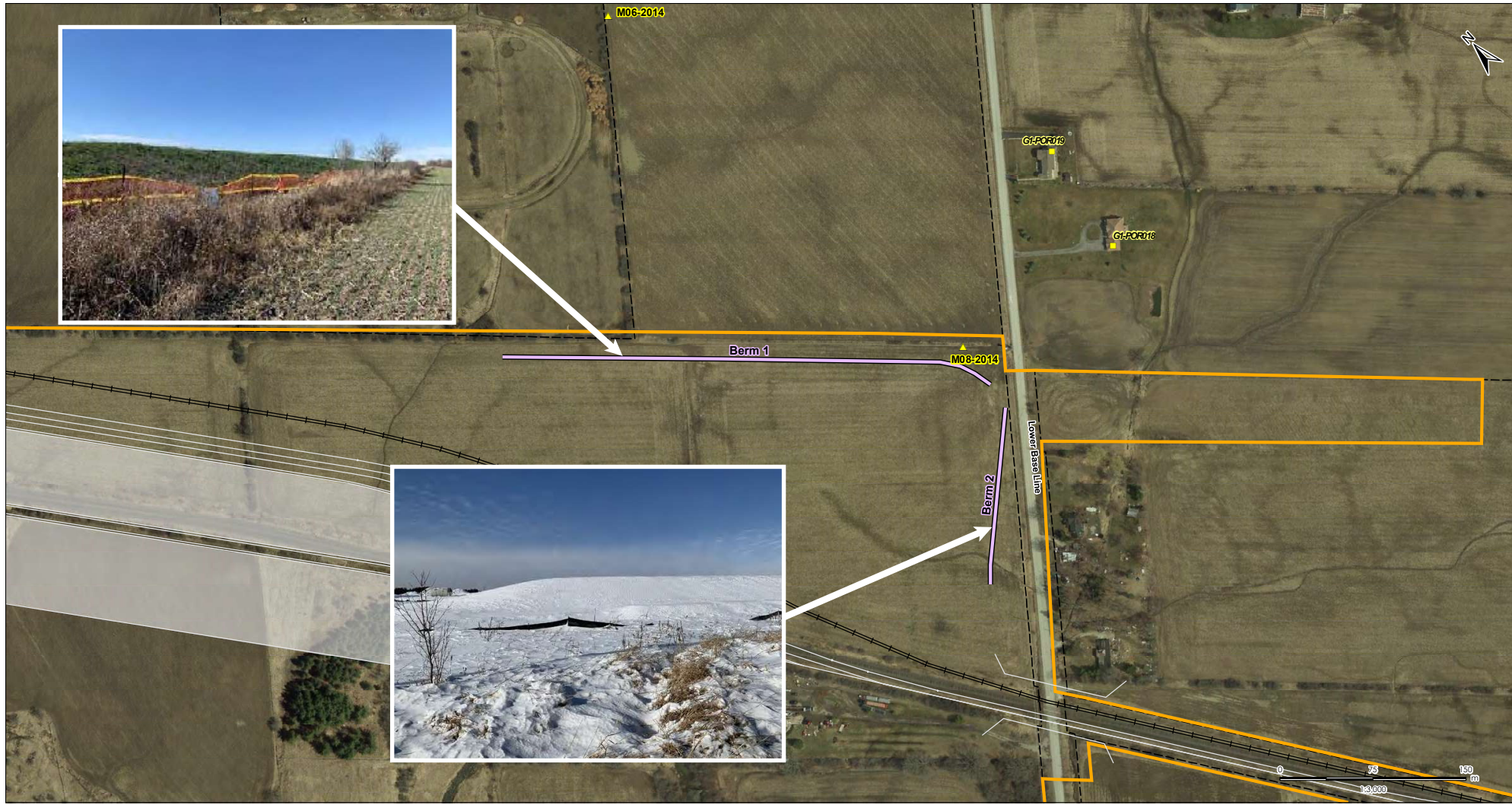
The noise berm is between 2.5 and 3 m high, and it consists of a segment along Lower Base Line and another segment perpendicular to Lower Base Line. The segment along Lower Base Line is a new noise mitigation implemented to address the construction noise from the anticipated increase in Phase 1 activities. The other noise berm segment forms the base of the future and permanent 5 m noise berm / barrier already identified for construction. This noise berm segment was constructed earlier than originally anticipated to address the future noise from increased Phase 1 activities.

Future construction works through Phase 1 and other Phases will be reviewed to determine if additional mitigation, including increase heights of the interim barriers, is required.

The extents of the interim noise berm are shown in Figure 3.1.



V:\0169\active\6094044\drawing\MXD\Atmospheric\Acoustic\2022_Annual_Monitoring_Report\16094044_Fig_3_1_Noise_Berms_20230331.mxd
 Revised: 2023-02-08 By: chawney



February 2023
16094044

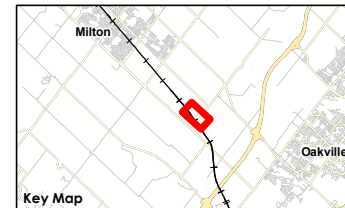


Legend

- Project Development Area
- Existing Single Track Mainline
- Existing Double Track Mainline
- Double Track - Mainline
- Project Component
- CN-Owned Property
- SWM Pond
- Receptor Location
- ▲ Noise Monitoring Location
- Interim Noise Berm

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base Features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2015. Site layout: July 10, 2015.
3. Orthoimagery © First Base Solutions, 2023. Imagery taken in 2021.



Client/Project
 Canadian National Railway
 Milton Logistics Hub
 Acoustic Follow-up Program

Figure No.
3.1

Title

Interim Noise Berm Locations

CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results

4 Phase 1 – Round 2

March 30, 2023

4 Phase 1 – Round 2

The following sub-sections present the construction monitoring results for Phase 1 – Round 2 undertaken November 21 to December 18, 2022. Section 4.2 includes discussion on how the results conform to the predictions in the TDR, the effectiveness of mitigation measures implemented prior to Phase 1 – Round 2, and additional mitigation measures implemented through the adaptive management process.

4.1 Results

A summary of the construction noise monitoring results for Phase 1 – Round 2 is provided in Table 4.1 and is presented in terms of the measured CTNE and change in %HA. For each metric, the results include the number of identified exceedances with audible construction noise and confirmed activities, and the total number of identified exceedances. Exceedances with audible construction noise and confirmed activities are further assessed in Section 4.2.1 to determine whether they are attributable to the Project. Weekly monitoring summaries and collected hourly sound levels are presented in Appendix D.

Stantec understands that no project-related noise complaints were received during the Phase 1 – Round 2 construction monitoring period.



CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results
4 Phase 1 – Round 2
 March 30, 2023

Table 4.1 Phase 1 – Round 2, CTNE and Change in %HA Summary

Monitoring Locations (ID)	Combined Total Noise Exposure (CTNE)			Change in %HA		
	Measured, L _{dn} (dBA)	Allowable, L _{dn} (dBA)	Exceedance Count (With Audible Construction Noise and Confirmed Activities /Total)	Calculated (%)	Allowable (%)	Exceedance Count (With Audible Construction Noise and Confirmed Activities /Total)
M01	54 to 61	60	0/1	-1.5 to 3.4	6.5	0/0
M02	65 to 71	68	0/7	-4.2 to 8.8		0/2
M03	68 to 75	77	0/0	-25.0 to -6.2		0/0
M04	51 to 60	59	0/1	-2.1 to 3.4		0/0
M05	56 to 64	60	0/3	-0.5 to 7.3		0/1
M06	51 to 66	56	2/8	-0.1 to 12.9		0/3
M07	53 to 63	61	1/3	-3.4 to 3.6		0/0
M08	50 to 62	57	1/1	-0.9 to 6.1		0/0
M09	56 to 65	60	2/7	-1.3 to 7.7		0/1
M10	57 to 65	62	0/1	-2.1 to 7.0		0/1

NOTE:

1. M01 and M02 are located more than 1 km from the limit of Phase 1 Activities; therefore, construction noise contributions to overall sound levels at those locations are expected to be negligible



4.2 Discussion

4.2.1 Conformity with Assessment Predictions

This section presents a discussion on the conformity of Phase 1 – Round 2 monitoring results with the TDR assessment predictions, as they relate to meeting the applicable noise criteria.

Table 4.1 lists six CTNE exceedances (with audible construction noise and confirmed activities) that were identified during Phase 1 – Round 2: two at M06, one at M07, one at M08, and two at M09. No exceedances (with audible construction noise and confirmed activities) of the allowable change in %HA have been identified.

To determine whether the identified CTNE exceedances were attributable to the Project, the PNE was separated from the monitored data and compared to the allowable PNE (see Table 2.1. lists the identified CTNE exceedances along with the estimated PNE.



CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results
4 Phase 1 – Round 2
 March 30, 2023

Table 4.2 Phase 1 – Round 2, Combined Total Noise Exposure Exceedances and Project Noise Exposure

Monitoring Location (ID)	Date	CTNE, L _{dn} (dBA)	Daytime Noise Level, L _d (dBA)	PNE, L _{dn} (dBA)		PNE Exceedance? (Y/N)
		Measured	Measured	Estimated	Allowable	
M06	Fri-Nov-25-2022	57	56	54	54	N
M06	Thu-Dec-01-2022	57	55	54	54	N
M09	Tue-Nov-29-2022	63	56	54	57	N
M07	Fri-Dec-09-2022	62	58	56	57	N
M09	Fri-Dec-09-2022	62	56	54	57	N
M08	Wed-Dec-14-2022	62	52	50	54	N



CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results

4 Phase 1 – Round 2

March 30, 2023

At M06, the PNE was estimated to be at the allowable limit. As described in Section 2.7, the calculation of the PNE is conservative in that it assumes construction activity occurred continuously between 07:00 and 23:00, and that construction noise was the dominant noise source measured at the monitoring location during this period. The actual PNE is likely lower than the allowable limit since construction activities likely occurred and/or were dominant noise sources for only part of the 07:00 to 23:00 period. The PNE results for M06 suggest that the previously identified CTNE exceedances were driven by the existing acoustic environment, and not construction from the CN project.

At M07, M08, and M09, the PNE did not exceed allowable limits. The PNE was between 1 and 4 dB lower than the allowable limits which suggests the previously identified CTNE exceedances at M07, M08, and M09 were driven by the existing acoustic environment. Further, the 4 to 10 dB difference between the CTNE and the daytime noise level (L_d) indicates that the previously identified exceedances were driven by nighttime noise levels (i.e., during a period when construction did not occur).

The Phase 1 – Round 2 monitoring results agree with the TDR assessment predictions since the measured noise levels (CTNE, PNE) and change in %HA meet the allowable limits in Table 2.2. The identified exceedances during Phase 1 – Round 2 were determined to be driven by other environmental noise sources.

4.2.2 Effectiveness of Mitigation Measures

Following Phase 1 – Round 1, an interim noise berm was constructed in the vicinity of M08, as described in Section 3.2.3. The interim noise berm has been effective in allowing measured noise levels at nearby monitoring locations to meet the allowable limits in Table 2.2. Further, the berm allowed compliance with these limits to be maintained when Phase 1 construction activities were expected to generate the greatest impact.

No other additional or modified mitigation measures, or changes to the interim noise berms have been implemented or identified following the Phase 1 – Round 2 monitoring period.

4.2.3 Adaptive Management

The adaptive management process was not triggered following the Phase 1 – Round 2 monitoring period as there were no identified exceedances attributable to construction activities.



5 Summary and Conclusions

This report summarizes the results of the Acoustic Environment FUP for 2022, which covers Year 1 of the construction phase of the Milton Logistics Hub.

The Acoustic Environment FUP was implemented by monitoring noise levels from construction activities during two distinct four-week periods: Phase 1 – Round 1 and Phase 1 – Round 2. Phase 1 – Round 1 represents the first four-week period of Phase 1 construction. Phase 1 – Round 2 represents the four-week period when Phase 1 construction activities were expected to have the highest impact.

The monitoring results for Phase 1 – Round 1 and Phase 1 – Round 2 show that construction noise levels were within the applicable FUP limits (see Table 2.2). Therefore, the monitoring results agree with the TDR assessment, which predicted that it is feasible for Project construction activities to take place and meet the FTA and HC guidelines.

The mitigation measures implemented ahead of and during the 2022 construction period were effective in allowing construction noise levels at the monitored locations to meet the applicable criteria. Following Phase 1 – Round 1, an interim noise berm was constructed as adaptive management (see Section 3.2.3) to address the potential impact of the anticipated Phase 1 activities at receptor G1-POR018. The adaptive management process involved a technical review of construction activities which supported the implementation of the interim noise berm as an additional/modified mitigation measure.

A copy of this report will be provided to the Impact Assessment Agency of Canada (IAAC) in accordance with Condition 2.9, as well as to HC, the Canadian Transportation Agency, the Mississaugas of the Credit First Nation, Six Nations of the Grand River, and the Huron-Wendat Nation, per the commitments in the Acoustic Environment FUP. In addition, this report will be posted to CN's project website (www.cn.ca/en/about-cn/milton-logistics-hub/) and a summary will be included in CN's 2022 Annual Report.



CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up Program Results

6 References

March 30, 2023

6 References

Health Canada. 2017. "Guidance for Evaluating Human Health Impacts in Environmental Assessment."

International Organization for Standardization. 2017. "ISO 1996-2 Acoustics – Description, measurement and assessment of environmental noise – Part 2: Determination of sound pressure levels."

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APPENDICES



**CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up
Program Results
Appendix A Photolog
March 30, 2023**

Appendix A Photolog





Photo 1: Sound Level Meter at M01



Photo 2: Sound Level Meter at M02



Photo 3: Sound Level Meter at M03



Photo 4: Sound Level Meter at M04



Photo 5: Sound Level Meter at M05



Photo 6: Sound Level Meter at M06



Client/Project	Date
Canadian National Railway Company	06/01/2023
CN Milton Logistics Hub: Annual Results for the Acoustic Environment Follow-Up Program – Construction 2022	Project No. 160960884
Title	Page
PHOTOGRAPHIC RECORD	Page 1 of 2



Photo 7: Sound Level Meter at M07



Photo 8: Sound Level Meter at M08



Photo 9: Sound Level Meter at M09



Photo 10: Sound Level Meter at M10



Client/Project	Date
Canadian National Railway Company	06/01/2023
CN Milton Logistics Hub: Annual Results for the Acoustic Environment Follow-Up Program – Construction 2022	Project No. 160960884
Title	Page
PHOTOGRAPHIC RECORD	Page 2 of 2

**CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up
Program Results
Appendix B Daily Progress Reports – Construction
March 30, 2023**

Appendix B Daily Progress Reports – Construction





RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **20**
 DAY : Monday
 DATE : 24-Jan-22
 WEATHER : Overcast/Snow
 TEMPERATURE : -8°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP1	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator								0
Site Superintendent	1	9					1	9
Foreman	2	9					2	18
Operator	2	9					2	18
Laborers								0
Surveyor								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
Flagman								0
AMHURST Crane Rental	1	5					1	5
CAT Mechanic	1	9					1	9
Environmental - Stantec								
Technician								0
								0
TOTAL LABOUR	7		0	0	0	0	7	59
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1						1	0
Dozer - Deere Nortrax 450J LT	1	9					1	9
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1	9					1	9
Plate Tamper								0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	2	9					2	18
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	6							36

FLAGMAN'S NAME :	N/A
TYPE OF PROTECTION :	N/A
MILE, TIME, ETC. :	N/A

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC delivered the 30 Tonne excavator (CAT 335F) to site yard today in preparation of clearing and grubbing works.

DCC had AMHURST Crane rental with Operator and CAT Mechanic to erect hydraulic arm and assemble excavator in site yard today.

OTHER:

DCC excavated trench line and installed a 4" dia. Conduit from site trailers heading South to Lower Base Line for proposed power supply.

DCC backfilling installed power supply conduit with excavated trench material with red caution marker tape.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **21**
 DAY : Tuesday
 DATE : 25-Jan-22
 WEATHER : Clear
 TEMPERATURE : -8°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP1	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator	1						1	0
Site Superintendent	1	10					1	10
Forman	2	10	1				1	20
Operator	2	10	1				1	20
Laborers								0
Surveyor								0
								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
Flagman								0
								0
								0
Environmental - Stantec								
Technician								0
TOTAL LABOUR	6		2	0	0	0	3	50
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1	10	1					10
Dozer - Deere Nortrax 450J LT	1	3					1	3
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1	3					1	3
Plate Tamper								0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	2	10	2					20
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	6							36

FLAGMAN'S NAME :	N/A
TYPE OF PROTECTION :	N/A
MILE, TIME, ETC. :	N/A

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC began clearing large and small trees and stockpiling along East and West sides of property at site yard (3249 Lower Base Line) today.

OTHER:

DCC completed backfilling power supply trench for yard site offices this morning.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **22**
 DAY : Wednesday
 DATE : 26-Jan-22
 WEATHER : Clear
 TEMPERATURE : -11°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP1	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator	1						1	0
Site Superintendent	1	9					1	9
Forman	1	9	1					9
Operator	1	9	1					9
Laborers	3						3	0
Surveyor								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
Flagman								0
								0
								0
Environmental - Stantec								
Technician	1						1	0
TOTAL LABOUR	8		2	0	0	0	5	27
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1					9
Dozer - Deere Nortrax 450J LT	1						1	0
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1						1	0
Plate Tamper								0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	2	9	2					18
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	6							27

FLAGMAN'S NAME :	N/A
TYPE OF PROTECTION :	N/A
MILE, TIME, ETC. :	N/A

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC continued clearing large and small trees along proposed Maintenance Access Road 2 today.

OTHER:

DCC taking delivery of office furniture for Contractors site office today.

CN Environmental Contractor visited site this morning to inspect existing oil barrels and contaminated soil areas for future disposal off site.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **23**
 DAY : Thursday
 DATE : 27-Jan-22
 WEATHER : Overcast
 TEMPERATURE: -5°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SW/PT	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator	1						1	0
Site Superintendent	1	9					1	9
Forman	1	9	1					9
Operator	1	9	1					9
Laborers	2	9	2					18
Surveyor								0
								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
Flagman								0
								0
								0
Environmental - Stantec								
Technician	1						1	0
TOTAL LABOUR	7		4	0	0	0	2	45
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1					9
Wood Chipper - Vermeer RC1000	1	9	1					9
Dozer - Deere Nortrax 450J LT	1						1	0
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1	3					1	3
Plate Tamper								0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	2	9	2					18
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	7							39
FLAGMAN'S NAME :		N/A						
TYPE OF PROTECTION :		N/A						
MILE, TIME, ETC. :		N/A						
SITE SAFETY ISSUES:		(include names, infraction & actions taken)						
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN				

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC continued clearing large and small trees along proposed Maintenance Access Road 2 today.

DCC began cleaning tree stockpile and feeding smaller tree branches through wood chipper.

OTHER:

Local Farmer began clearing existing corn field located just North of proposed Maintenance Access Road 2.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **24**
 DAY : Friday
 DATE : 28-Jan-22
 WEATHER : Sunny
 TEMPERATURE: -14°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SW/PT	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator	1						1	0
Site Superintendent	1						1	0
Forman								0
Operator	1	9	1					9
Laborers	2	9	2					18
Surveyor								0
								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
Flagman								0
								0
								0
Environmental - Stantec								
Technician								0
TOTAL LABOUR	5		3	0	0	0	1	27
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1					9
Wood Chipper - Vermeer RC1000	1	9	1					9
Dozer - Deere Nortrax 450J LT	1						1	0
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1						1	0
Chainsaw - Skil	2	9	2					18
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	2	9	2					18
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	9							54
FLAGMAN'S NAME : N/A								
TYPE OF PROTECTION : N/A								
MILE, TIME, ETC. : N/A								
SITE SAFETY ISSUES: (include names, infraction & actions taken)								
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN				

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC clearing large and small trees along second section of culvert 3 and new ditch to Indian Creek.

DCC continued cleaning tree stockpile and feeding smaller tree branches through wood chipper.

OTHER:

Local Farmer completed clearing existing corn field located just North of proposed Maintenance Access Road 2.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **25**
 DAY : Monday
 DATE : 31-Jan-22
 WEATHER : Partly Cloudy
 TEMPERATURE: -4°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY								
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP1	ACCESS ROAD	EROSION CONTROL	YARD	TOTAL HOURS
CONTRACTOR:									
Project Manager									0
Project Coordinator	1						1		0
Site Superintendent	1						1		0
Forman									0
Operator	1	9	1						9
Laborers	2	9	2						18
Surveyor									0
									0
									0
Sub-Contractor:									
Super									0
Foremen									0
Operator									0
Laborers									0
Flagman									0
									0
									0
Environmental - Stantec									
Technician									0
									0
									0
TOTAL LABOUR	5		3	0	0	0	1		27
EQUIPMENT									
TYPE, MODEL, CAPACITY									
CONTRACTOR:									
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9
Wood Chipper - Vermeer RC1000	1		1						0
Dozer - Deere Nortrax 450J LT	1						1		0
Dozer - Deere Nortrax 550K	1						1		0
Backhoe - Deere 310L	1						1		0
Chainsaw - Skil	2	9	2						18
Skid Steer Street Sweeper									0
Work Truck									0
Pick Up Truck	2	9	2						18
Generator & Pump									0
Generator -									0
Tri-Axle									0
									0
Environmental									
									0
									0
TOTAL EQUIPMENT	9								45
FLAGMAN'S NAME :		N/A							
TYPE OF PROTECTION :		N/A							
MILE, TIME, ETC. :		N/A							
SITE SAFETY ISSUES:		(include names, infraction & actions taken)							
EMPLOYEE NAME	CONT.	SUB.	INFRACTION				ACTIONS TAKEN		

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:
Clearing and Grubbing:
DCC completed clearing large and small trees along second section of culvert 3 and new ditch to Indian Creek.
DCC installed 2 sections of silt fence at Indian Creek ditch inlet embankment from ground disturbance with excavator from tree clearing access. DCC also added wood mulch to these areas for possible surface water erosion control.
DCC continued cleaning tree stockpiles this afternoon.

OTHER:
Town of Milton Rep. on site this afternoon to request site visit/tour. CN/Town to coordinate site visit as any visitors will require formal site orientation and Safety P.P.E before entering site.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **26**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Tuesday
 DATE : 1-Feb-22
 WEATHER : Partly Cloudy
 TEMPERATURE: 3°C

LABOUR	ACTIVITY																																																
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWIP1	ACCESS ROAD	EROSION CONTROL	YARD	TOTAL HOURS																																								
CONTRACTOR:																																																	
Project Manager									0																																								
Project Coordinator	1						1		0																																								
Site Superintendent									0																																								
Forman	1	9	1						9																																								
Operator	1	9	1						9																																								
Laborers	1	9	1						9																																								
Surveyor									0																																								
Environmental Inspector									0																																								
									0																																								
Sub-Contractor:																																																	
Super									0																																								
Foremen									0																																								
Operator									0																																								
Laborers									0																																								
Flagman									0																																								
									0																																								
									0																																								
Environmental:																																																	
Stantec Environmental Monitor									0																																								
Stantec Technicians	1		1						0																																								
TOTAL LABOUR	5		4	0	0	0	0	0	27																																								
EQUIPMENT																																																	
TYPE, MODEL, CAPACITY																																																	
CONTRACTOR:																																																	
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9																																								
Wood Chipper - Vermeer RC1000	1						1		0																																								
Dozer - Deere Nortrax 450J LT	1						1		0																																								
Dozer - Deere Nortrax 550K	1						1		0																																								
Backhoe - Deere 310L	1						1		0																																								
Chainsaw - Skil									0																																								
Skid Steer Street Sweeper									0																																								
Work Truck									0																																								
Pick Up Truck	2	9	2						18																																								
Generator & Pump									0																																								
Generator -									0																																								
Tri-Axle									0																																								
									0																																								
Environmental																																																	
									0																																								
									0																																								
TOTAL EQUIPMENT	7								27																																								
<table border="1"> <tr> <td>FLAGMAN'S NAME :</td> <td>Todd C. - Track Supervisor</td> </tr> <tr> <td>TYPE OF PROTECTION :</td> <td>Safety Watch</td> </tr> <tr> <td>MILE, TIME, ETC. :</td> <td>Mile 40.69, Halton Sub., 07:00am to 08:00am</td> </tr> </table>										FLAGMAN'S NAME :	Todd C. - Track Supervisor	TYPE OF PROTECTION :	Safety Watch	MILE, TIME, ETC. :	Mile 40.69, Halton Sub., 07:00am to 08:00am																																		
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SITE SAFETY ISSUES:		(include names, infraction & actions taken)																																															
EMPLOYEE NAME	CONT.	SUB.	INFRACTION				ACTIONS TAKEN																																										
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NAME	DISCUSSIONS					ACTIONS TAKEN																																											
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NOTES OF TODAY'S ACTIVITIES & PROGRESS :	(include any delays or instructions to contractors)																																																

WORKS:

Clearing and Grubbing:

DCC crossed mainline rail road crossing at Lower Base Line this morning with Excavator to begin clearing proposed Southern end of track realignment tie in. CN Track Supervisor on site to monitor equipment crossing. DCC had rubber mats placed overtop of rail road crossing for additional protection during equipment crossing.

DCC began clearing large trees and stockpiling along West side of CN property at 3242 Lower Base Line for proposed Southern end track realignment.

OTHER:

DCC had Engineering support site office trailer (1of 2) delivered to site this morning.

DCC encountered mechanical issues with rental wood chipper this morning. The Wood chipper was found to be leaking a small amount of hydraulic fluid at site yard. DCC had equipment removed from site for repairs and surface leaking area material was removed and contained in barrel for future off site disposal. Incident spill report to follow by DCC.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **27**

PROJECT DESCRIPTION :

Milton Logistics Hub – Phase 1: Grading & Drainage

DAY : Wednesday

AECOM PROJECT NO. :

60579933

DATE : 2-Feb-22

CLIENT'S CONTRACT NO. :

BW314-38.72-1.1

WEATHER : Light Rain

CONTRACTOR :

Dufferin Construction Company

TEMPERATURE: 2°C

PREPARED BY :

PAUL SCHIPANI

PRINT NAME

SIGNATURE

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SMP-1	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator								0
Site Superintendent								0
Forman								0
Operator								0
Laborers								0
Surveyor								0
Environmental Inspector								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
								0
Flagman								0
								0
								0
Environmental:								
Stantec Environmental Monitor								0
Stantec Technicians								0
								0
TOTAL LABOUR	0		0	0	0	0	0	0
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1		1					0
Wood Chipper - Vermeer RC1000								0
Dozer - Deere Nortrax 450J LT	1						1	0
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1						1	0
Chainsaw - Skil								0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck								0
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	4							0
FLAGMAN'S NAME :								
N/A								

TYPE OF PROTECTION :	N/A
MILE, TIME, ETC. :	N/A

SITE SAFETY ISSUES:	(include names, infraction & actions taken)			
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:
Clearing and Grubbing:

No Activity/No Forces on site due to rain and expected snow fall later today.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION :

Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.

AECOM PROJECT NO. :
 CLIENT'S CONTRACT NO. :
 CONTRACTOR :

60579933
 BW314-38.72-1.1
 Dufferin Construction Company

PREPARED BY :

PAUL SCHIPANI

No.: **28**

DAY : Thursday

DATE : 3-Feb-22

WEATHER : Overcast

TEMPERATURE : -6°C

PRINT NAME

SIGNATURE

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SMP-1	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator								0
Site Superintendent								0
Forman	1	4					1	4
Operator	1	4					1	4
Laborers	1	4					1	4
Surveyor								0
Environmental Inspector								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
								0
Flagman								0
								0
								0
Environmental:								
Stantec Environmental Monitor								0
Stantec Technicians								0
								0
TOTAL LABOUR	3		0	0	0	0	3	12
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1		1					0
Wood Chipper - Vermeer RC1000								0
Dozer - Deere Nortrax 450J LT	1	3					1	3
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1	3					1	3
Chainsaw - Skil								0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	2						2	0
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	6							6
FLAGMAN'S NAME :								
N/A								

TYPE OF PROTECTION :	N/A
MILE, TIME, ETC. :	N/A

SITE SAFETY ISSUES:	(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:
Clearing and Grubbing:

No Construction Activity Today due to overnight snowfall.
DCC on site this afternoon to clear snow at site yard.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **29**

PROJECT DESCRIPTION :

Milton Logistics Hub – Phase 1: Grading & Drainage

DAY : Friday

AECOM PROJECT NO. :

60579933

DATE : 4-Feb-22

CLIENT'S CONTRACT NO. :

BW314-38.72-1.1

WEATHER : Partly Cloudy

CONTRACTOR :

Dufferin Construction Company

TEMPERATURE: -10°C

PREPARED BY :

PAUL SCHIPANI

PRINT NAME

SIGNATURE

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SMP-1	ACCESS ROAD	EROSION CONTROL	
CONTRACTOR:								
Project Manager								0
Project Coordinator								0
Site Superintendent								0
Forman								0
Operator								0
Laborers								0
Surveyor								0
Environmental Inspector								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
								0
Flagman								0
								0
								0
Environmental:								
Stantec Environmental Monitor								0
Stantec Technicians								0
								0
TOTAL LABOUR	0		0	0	0	0	0	0
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR:								
Excavator - CAT 335F L w/ Grapple(G320B)	1		1					0
Wood Chipper - Vermeer RC1000								0
Dozer - Deere Nortrax 450J LT	1						1	0
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1						1	0
Chainsaw - Skil								0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck								0
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
Environmental								
								0
								0
TOTAL EQUIPMENT	4							0
FLAGMAN'S NAME :								
N/A								

TYPE OF PROTECTION :	N/A
MILE, TIME, ETC. :	N/A

SITE SAFETY ISSUES:	(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

No Activity/No Forces on site today due to overnight snowfall.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **30**
 DAY : Monday
 DATE : 7-Feb-22
 WEATHER : Mainly Sunny
 TEMPERATURE : 2°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY								
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP-1	ACCESS ROAD	EROSION CONTROL	YARD	TOTAL HOURS
CONTRACTOR:									
Project Manager									0
Project Coordinator	1						1		0
Site Superintendent									0
Forman	1	9	1						9
Operator	1	9	1						9
Laborers	1	9	1						9
Surveyor									0
Environmental Inspector									0
									0
Sub-Contractor:									
Super									0
Foremen									0
Operator									0
Laborers									0
									0
Flagman	1	10	1						10
									0
									0
Environmental:									
Stantec Environmental Monitor									0
Stantec Technicians	1		1						0
									0
TOTAL LABOUR	6		5	0	0	0	0	0	37
EQUIPMENT									
TYPE, MODEL, CAPACITY									
CONTRACTOR:									
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9
Wood Chipper - Vermeer RC1000	1						1		0
Dozer - Deere Nortrax 450J LT	1						1		0
Dozer - Deere Nortrax 550K	1						1		0
Backhoe - Deere 310L	1	4					1		4
Chainsaw - Skil									0
Skid Steer Street Sweeper									0
Work Truck									0
Pick Up Truck	2	9	2						18
Generator & Pump									0
Generator -									0
Tri-Axle									0
									0
Environmental									
									0
									0
TOTAL EQUIPMENT	7								31

FLAGMAN'S NAME : Theo W. (CN)
 TYPE OF PROTECTION : T.O.P.
 MILE, TIME, ETC. : Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)			
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN	

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC completed clearing large trees with tree stumps and stockpiling along West side of CN property at 3242 Lower Base Line for proposed Southern end track realignment.

DCC crossed Lower Base Line road with excavator in afternoon to continue clearing proposed track realignment heading North to culvert 2A.

CN Flagman on site today.

OTHER:

DCC hooking up temporary power supply to Engineering site office trailer.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **31**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI





DAY : Tuesday
 DATE : 8-Feb-22
 WEATHER : Partly Cloudy
 TEMPERATURE : - 2°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY								
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP-1	ACCESS ROAD	EROSION CONTROL	YARD	TOTAL HOURS
CONTRACTOR:									
Project Manager									0
Project Coordinator	1						1		0
Site Superintendent	1						1		0
Forman	1	9	1						9
Operator	1	9	1						9
Laborers	3	9	1				2		27
Surveyor									0
Environmental Inspector									0
									0
Sub-Contractor: Sommerville									
Super									0
Foremen	1						1		0
Operator	1						1		0
Laborers	2						2		0
Flagman	1	10	1						10
									0
									0
Environmental:									
Stantec Environmental Monitor	1		1						0
Stantec Technicians									0
TOTAL LABOUR	13		5	0	0	0	7		55
EQUIPMENT									
TYPE, MODEL, CAPACITY									
CONTRACTOR: Dufferin Construction									
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9
Wood Chipper - Vermeer RC1000									0
Dozer - Deere Nortrax 450J LT	1						1		0
Dozer - Deere Nortrax 550K	1						1		0
Backhoe - Deere 310L	1	4					1		4
Chainsaw - Skil									0
Skid Steer Street Sweeper									0
Work Truck									0
Pick Up Truck	2	9	2						18
Generator & Pump									0
Generator -									0
Tri-Axle									0
									0
SUB-CONTRACTOR:									
									0
									0
									0
									0
TOTAL EQUIPMENT	6								31

FLAGMAN'S NAME :	Theo W. (CN)
TYPE OF PROTECTION :	T.O.P.
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	
NOTES OF TODAY'S ACTIVITIES & PROGRESS :		(include any delays or instructions to contractors)	
WORKS:			
Clearing and Grubbing:			
DCC continued clearing trees and bush line along proposed track realignment heading North to culvert 2A location. DCC stockpiling cleared trees and branches for future use.			
DCC began clearing large trees at Southern side of Culvert 2A location for proposed track realignment.			
DCC clearing snow path for vehicle access along track realignment work area.			
CN Flagman on site today.			
OTHER:			
DCC had Sub-Contractor Sommerville on site today to rough in buried power supply for site offices in yard with new feeder pole close to Lower Base Line road. This power supply feeder pole is equipment with Meter box for Milton Hydro hook up at later date.			
DCC installed Two 6x6" timber posts for proposed site yard driveway security gate.			
SKETCH OR PHOTOS OF DAY'S ACTIVITIES :			
			
			
MATERIALS OR EQUIPMENT DELIVERED TO SITE :		QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **32**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI





DAY : Wednesday
 DATE : 9-Feb-22
 WEATHER : Cloudy
 TEMPERATURE : 5°C

PRINT NAME SIGNATURE

LABOUR	ACTIVITY								
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP-1	ACCESS ROAD	EROSION CONTROL	YARD	TOTAL HOURS
CONTRACTOR:									
Project Manager									0
Project Coordinator	1						1		0
Site Superintendent									0
Forman	1	9	1						9
Operator	1	9	1						9
Laborers	3	9	1				2		27
Surveyor	1	4							4
Environmental Inspector									0
Sub-Contractor:									
Super									0
Foremen									0
Operator									0
Laborers									0
Flagman	1	10	1						10
									0
									0
Environmental:									
Stantec Environmental Monitor	1		1						0
Stantec Technicians									0
TOTAL LABOUR	9		5	0	0	0	2		59
EQUIPMENT									
TYPE, MODEL, CAPACITY									
CONTRACTOR: Dufferin Construction									
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9
Wood Chipper - Vermeer RC1000									0
Dozer - Deere Nortrax 450J LT	1						1		0
Dozer - Deere Nortrax 550K	1						1		0
Backhoe - Deere 310L	1						1		0
Chainsaw - Skil									0
Skid Steer Street Sweeper									0
Work Truck									0
Pick Up Truck	2	9	2						18
Generator & Pump									0
Generator -									0
Tri-Axle									0
									0
SUB-CONTRACTOR:									
									0
									0
									0
TOTAL EQUIPMENT	6								27

FLAGMAN'S NAME :	Theo W. (CN)
TYPE OF PROTECTION :	T.O.P.
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	
NOTES OF TODAY'S ACTIVITIES & PROGRESS :		(include any delays or instructions to contractors)	
WORKS:			
Clearing and Grubbing:			
DCC continued clearing large trees at Southern side of Culvert 2A location for proposed track realignment.			
DCC stockpiling cleared trees and branches along West side of proposed track realignment work area.			
DCC surveyor on site to layout proposed track realignment turnout switches (No. 20 and Two No. 12s) this morning.			
CN Flagman on site today.			
OTHER:			
DCC took delivery of 2nd Engineering field support site office today for setup.			
SKETCH OR PHOTOS OF DAY'S ACTIVITIES :			
			
			
MATERIALS OR EQUIPMENT DELIVERED TO SITE :		QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **33**
 DAY : Thursday
 DATE : 10-Feb-22
 WEATHER : Cloudy
 TEMPERATURE : 1°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY								
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP1	ACCESS ROAD	EROSION CONTROL	YARD	TOTAL HOURS
CONTRACTOR:									
Project Manager									0
Project Coordinator	1						1		0
Site Superintendent	1						1		0
Forman	1	9	1						9
Operator	1	9	1						9
Laborers	1	9	1						9
Surveyor									0
Environmental Inspector									0
									0
Sub-Contractor:									
Super									0
Foremen									0
Operator									0
Laborers									0
Flagman	1	10	1						10
									0
									0
Environmental:									
Stantec Environmental Monitor	1		1						0
Stantec Technicians									0
									0
TOTAL LABOUR	7		5	0	0	0	1		37
EQUIPMENT									
TYPE, MODEL, CAPACITY									
CONTRACTOR: Dufferin Construction									
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9
Wood Chipper - Vermeer RC1000									0
Dozer - Deere Nortrax 450J LT	1						1		0
Dozer - Deere Nortrax 550K	1						1		0
Backhoe - Deere 310L	1						1		0
Chainsaw - Skil	1	5	1						5
Skid Steer Street Sweeper									0
Work Truck									0
Pick Up Truck	2	9	2						18
Generator & Pump									0
Generator -									0
Tri-Axle									0
									0
SUB-CONTRACTOR:									
									0
									0
									0
									0
TOTAL EQUIPMENT	7								32

FLAGMAN'S NAME : Theo W. (CN)
 TYPE OF PROTECTION : Safety Watch
 MILE, TIME, ETC. : Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

No.: **34**
 DAY : Friday
 DATE : 11-Feb-22
 WEATHER : Overcast/Light Rain
 TEMPERATURE: 2°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY							TOTAL HOURS
	NUMBER	HOURS	CLEARING & GRUBBING	SWP1	ACCESS ROAD	EROSION CONTROL	YARD	
CLASSIFICATION "INCLUDING OPERATORS"								
CONTRACTOR:								
Project Manager								0
Project Coordinator	1						1	0
Site Superintendent	2						2	0
Forman	2	9	1				1	18
Operator	1	9	1					9
Laborers	4	9	1				3	36
Surveyor								0
Environmental Inspector								0
								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
Flagman	1	10	1					10
								0
								0
Environmental:								
Stantec Environmental Monitor	1		1					0
Stantec Technicians								0
								0
TOTAL LABOUR	12		5	0	0	0	6	73
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR: Dufferin Construction								
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1					9
Wood Chipper - Vermeer RC1000								0
Dozer - Deere Nortrax 450J LT	1						1	0
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1						1	0
Chainsaw - Skil	1		1					0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	5	9	2				3	45
Generator & Pump								0
Generator -								0
Tri-Axle								0
								0
SUB-CONTRACTOR:								
								0
								0
								0
								0
TOTAL EQUIPMENT	10							54

FLAGMAN'S NAME : Theo W. (CN)
 TYPE OF PROTECTION : Safety Watch
 MILE, TIME, ETC. : Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC setup temporary timber mat creek crossing this morning at Tributary A (Track realignment location) for crossing creek with tree clearing machinery.

DCC began clearing trees North of Culvert 2A/Tributary A creek location for proposed track realignment.

DCC continued clearing trees and bush at Southern side of Culvert 2A/Tributary A creek location for proposed track realignment.

DCC continued stockpiling cleared trees and branches along West side of proposed track realignment work area.

CN Flagman on site today.

OTHER:

DCC working on setting up 2nd engineering support site office trailer today. Setting up timber walkway between site trailer offices.

DCC completed installed site yard security gate today.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **35**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI


DAY : Monday
 DATE : 14-Feb-22
 WEATHER : Mainly Sunny
 TEMPERATURE : -11°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY								
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP-1	ACCESS ROAD	EROSION CONTROL	YARD	TOTAL HOURS
CONTRACTOR:									
Project Manager									0
Project Coordinator	1							1	0
Site Superintendent									0
Forman	2	9	1					1	18
Operator	2	9	2						18
Laborers	3	9	2					1	27
Surveyor									0
Environmental Inspector									0
									0
Sub-Contractor:									
Super									0
Foremen									0
Operator									0
Laborers									0
									0
Flagman	1	10	1						10
									0
									0
Environmental:									
Stantec Environmental Monitor	1		1						0
Stantec Technicians									0
									0
TOTAL LABOUR	10		7	0	0	0		2	73
EQUIPMENT									
TYPE, MODEL, CAPACITY									
CONTRACTOR: Dufferin Construction									
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9
Track Skid Steer - Deere 333G w/ Mulcher	1	5	1						5
Dozer - Deere Nortrax 450J LT	1							1	0
Dozer - Deere Nortrax 550K	1							1	0
Backhoe - Deere 310L	1							1	0
Chainsaw - Skil	1		1						0
Skid Steer Street Sweeper									0
Work Truck									0
Pick Up Truck	3	9	2					1	27
Generator & Pump									0
Generator -									0
Tri-Axle									0
									0
SUB-CONTRACTOR:									
									0
									0
									0
									0
TOTAL EQUIPMENT	9								41

FLAGMAN'S NAME :	Rob B. (CN)
TYPE OF PROTECTION :	Safety Watch
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)			
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN	

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	
NOTES OF TODAY'S ACTIVITIES & PROGRESS :		(include any delays or instructions to contractors)	
WORKS:			
Clearing and Grubbing:			
DCC continued clearing trees and brush North of Culvert 2A/Tributary A creek location for proposed track realignment.			
DCC continued stockpiling cleared trees and branches along West side of proposed track realignment work area.			
DCC placed temporary wood chip filtration socks along North and South sides of Tributary A creek crossing at proposed track realignment today.			
CN Flagman on site today.			
OTHER:			
SKETCH OR PHOTOS OF DAY'S ACTIVITIES :			
			
			
MATERIALS OR EQUIPMENT DELIVERED TO SITE :		QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI





No.: **36**
 DAY : Tuesday
 DATE : 15-Feb-22
 WEATHER : Partly Cloudy
 TEMPERATURE: -4°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY							TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP1	ACCESS ROAD	SITE DELINEATION	
CONTRACTOR:								
Project Manager								0
Project Coordinator	1						1	0
Site Superintendent	1						1	0
Forman	1	9	1					9
Operator	1	9	1					9
Laborers	2	9	2					18
Surveyor	2					2		0
Environmental Inspector								0
Sub-Contractor:								
Super								0
Foremen								0
Operator								0
Laborers								0
CN Flagman:	1	10	1					10
								0
								0
Environmental:								
Stantec Environmental Monitor	1		1					0
Stantec Technicians								0
TOTAL LABOUR	10		6	0	0	2	1	46
EQUIPMENT								
TYPE, MODEL, CAPACITY								
CONTRACTOR: Dufferin Construction								
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1					9
Dozer - CAT 750K XLT	1				1			0
Track Skid Steer - Deere 333G w/ Mulcher	1	9	1					9
Dozer - Deere Nortrax 450J LT	1						1	0
Dozer - Deere Nortrax 550K	1						1	0
Backhoe - Deere 310L	1						1	0
Chainsaw - Skil	1		1					0
Skid Steer Street Sweeper								0
Work Truck								0
Pick Up Truck	3	9	2				1	27
Generator & Pump								0
Generator -								0
Tri-Axle								0
SUB-CONTRACTOR:								
								0
								0
								0
TOTAL EQUIPMENT	10							45

FLAGMAN'S NAME : Rob B. (CN)
 TYPE OF PROTECTION : Safety Watch
 MILE, TIME, ETC. : Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)		
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:			(include names, discussions actions taken)		
NAME		DISCUSSIONS		ACTIONS TAKEN	
NOTES OF TODAY'S ACTIVITIES & PROGRESS :			(include any delays or instructions to contractors)		
WORKS:					
Clearing and Grubbing:					
DCC continued clearing trees and brush heading North of Culvert 2A/Tributary A creek location for proposed track realignment.					
DCC continued stockpiling cleared trees and branches along West side of proposed track realignment work area.					
DCC Surveyors on site today to layout limit of Construction boundary along East side of Track realignment work area.					
CN Flagman on site today.					
OTHER:					
DCC had Dozer (CAT 750K) delivered to Laydown Area 1 location off Lower Base line in preparation of future grading works.					
CN Rail delivered 1 of 2 No. 12 track turnout switches to site yard last night.					
SKETCH OR PHOTOS OF DAY'S ACTIVITIES :					
					
					
MATERIALS OR EQUIPMENT DELIVERED TO SITE :		QUANTITY		LOCATION	
Dozer - CAT 750k XLT		1		Laydown Area 1 off Lower Base Line	
No. 12 Track Turnout Switch		1		Site Yard	



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **37**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Wednesday
 DATE : 16-Feb-22
 WEATHER : Overcast
 TEMPERATURE : 8°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY								
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	CLEARING & GRUBBING	SWP-1	ACCESS ROAD	SITE DELINEATION	YARD	TOTAL HOURS
CONTRACTOR:									
Project Manager									0
Project Coordinator	1						1		0
Site Superintendent									0
Forman	1	9	1						9
Operator	2	9	1				1		18
Laborers	2	9	1				1		18
Surveyor									0
Environmental Inspector									0
Sub-Contractor:									
Super									0
Foremen									0
Operator									0
Laborers									0
CN Flagman:	1	10	1						10
									0
									0
Environmental:									
Stantec Environmental Monitor	1		1						0
Stantec Technicians									0
TOTAL LABOUR	8		5	0	0	0	2		55
EQUIPMENT									
TYPE, MODEL, CAPACITY									
CONTRACTOR: Dufferin Construction									
Excavator - CAT 335F L w/ Grapple(G320B)	1	9	1						9
Dozer - CAT 750K XLT	1				1				0
Track Skid Steer - Deere 333G w/ Mulcher	1	4	1						4
Dozer - Deere Nortrax 450J LT	1						1		0
Dozer - Deere Nortrax 550K	1	9					1		9
Backhoe - Deere 310L	1						1		0
Chainsaw - Skil	1		1						0
Skid Steer Street Sweeper									0
Work Truck									0
Pick Up Truck	4	9	2				2		36
Generator & Pump									0
Generator -									0
Tri-Axle									0
									0
SUB-CONTRACTOR:									
									0
									0
									0
TOTAL EQUIPMENT	11								58

FLAGMAN'S NAME :	Heather D. (CN)
TYPE OF PROTECTION :	Safety Watch
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:		(include names, infraction & actions taken)			
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN	

THIRD PARTY ISSUES:		(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN	

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

DCC continued clearing trees and brush heading North of Culvert 2A/Tributary A creek location for proposed track realignment.
 DCC continued stockpiling cleared trees and branches along West side of proposed track realignment work area.

CN Flagman on site today.

OTHER:

DCC began taking delivery of 2" crusher run material (Half Tri-axle Loads) at site yard. 1 truck running stone deliveries today.
 DCC placing and grading granular material along site office trailers for mud control.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION

TOTAL EQUIPMENT	9							18
------------------------	---	--	--	--	--	--	--	----

FLAGMAN'S NAME :	
TYPE OF PROTECTION :	
MILE, TIME, ETC. :	

SITE SAFETY ISSUES:	(include names, infraction & actions taken)			
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

No Activity Today due to rain and wet working conditions.

OTHER:

DCC cleaning/setting up 2nd engineering support site trailer today.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION

TOTAL EQUIPMENT	9							0
------------------------	---	--	--	--	--	--	--	---

FLAGMAN'S NAME :	
TYPE OF PROTECTION :	
MILE, TIME, ETC. :	

SITE SAFETY ISSUES:	(include names, infraction & actions taken)			
EMPLOYEE NAME	CONT.	SUB.	INFRACTION	ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)	
NAME	DISCUSSIONS	ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Clearing and Grubbing:

No Activity Today due to volume of overnight snowfall.

OTHER:

DCC on site in afternoon to clear snow in site yard today.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **228**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Monday
 DATE : 21-Nov-22
 WEATHER : Sun
 TEMPERATURE : 4°C

PRINT NAME _____ SIGNATURE _____

LABOUR		ACTIVITY										
CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works	Indian Creek - Julie Manning Installation	Pond 1 - Spillway Grading	Pond 2/Indian Creek Landscaping						TOTAL HOURS
CONTRACTOR:												
Project Manager												0
Project Coordinator	1	10										10
Site Superintendent	1	10										10
Forman	3	10	1	1	1							30
Operator	6	10	6		3							60
Laborers	8	10	4	4								80
Grademan	1	10										10
Surveyor												0
												0
												0
Sub-Contractor:												
Super		10										0
Foremen	1	10				1						10
Operator	2	10				2						20
Laborers	1	10				1						10
Iron Worker		10										0
												0
												0
CN Flagman:	1	10										10
CN Signals:												0
												0
Environmental:												
Stantec Environmental Monitor	1	10										10
Stantec Technicians	2	10				2						20
Archaeological Monitors												0
Indigenous Monitors												0
GEMS	1	10										10
TOTAL LABOUR	28		11	5	4	6	0	0	0	0	0	280
EQUIPMENT												
TYPE, MODEL, CAPACITY												
CONTRACTOR: Dufferin Construction												
Excavator - Volvo ECR 355	1	10	1									10
Excavator - Hitachi 470	1	10										10
Excavator - John Deere 470	1	10	1		1							10
Rock Truck - Volvo A30G	2	10	2		2							20
Dozer - John Deere 550	1	10										10
Dozer - Deere Nortrax 750k LT	1	10	1									10
Loader - CAT 950	1	10										10
Drum Roller - CATCS44B	1											0
Sheepsfoot Packer - CAT CP56B	1	10	1									10
Skid Steer - CAT 289	1	10										10
Mini Excavator - CAT 80	1	10										10
RTV Shuttle	1	10										10
Kubota SV90 Skid Steer	1	10										10
Pick Up Truck	1	10		2								10
Diesel Plate Tamper	1	10										10
Water pump / hose												0
Water Truck	1	10										10
RT Backhoe - John Deere 710	1	10										10
												0
SUB-CONTRACTOR:												
Work Truck									2			0
CAT 320 Excavator									1			0

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Pond 1- Excavation of material for Emergency Spillway



Pond 1- Excavation of material for Emergency Spillway



Pond 1- Excavation of material for Emergency Spillway



East Track Diversion - Excavation and grading for track diversion grading



Nov 21, 2022 at 12:09:20 PM
Milton ON
Canada
Sherwood

East Track Diversion - Excavation and grading for track diversion grading



Nov 21, 2022 at 12:09:47 PM
Milton ON
Canada
Sherwood

East Track Diversion - Excavation and grading for track diversion grading



Nov 21, 2022 at 11:16:57 AM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Stantec conducting fish rescue at coffer dam area



Nov 21, 2022 at 11:17:07 AM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Installation of poly tarps and sand bags for coffer dam



Nov 21, 2022 at 11:18:34 AM
5237 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Installation of poly tarps and sand bags for coffer dam



Nov 21, 2022 at 11:18:47 AM
5237 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Installation of poly tarps and sand bags for coffer dam

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **229**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Tuesday
 DATE : 22-Nov-22
 WEATHER : Sun
 TEMPERATURE : 4°C

PRINT NAME

SIGNATURE

LABOUR CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	ACTIVITY								TOTAL HOURS	
			East Track Diversion - Grading Works	Indian Creek - Jule Matting Installation	Indian Creek - Temp Bridge Removals	Pond 2/Indian Creek Landscaping	Silt Fence Installation					
CONTRACTOR:												
Project Manager												0
Project Coordinator	1	10										10
Site Superintendent	1	10										10
Forman	3	10	1	1	1							30
Operator	9	10	6		1			2				90
Laborers	11	10	1	4	2			4				110
Grademan	1	10						1				10
Surveyor												0
												0
												0
Sub-Contractor:												
Super		10										0
Foremen	1	10					1					10
Operator	2	10					2					20
Laborers	1	10					1					10
Iron Worker		10										0
												0
												0
CN Flagman:	1	10										10
CN Signals:												0
												0
Environmental:												
Stantec Environmental Monitor	1	10										10
Stantec Technicians	2	10					2					20
Archaeological Monitors												0
Indigenous Monitors												0
GEMS	1	10										10
TOTAL LABOUR	34		8	5	4	6	7	0	0	0		340
EQUIPMENT												
TYPE, MODEL, CAPACITY												
CONTRACTOR: Dufferin Construction												
Excavator - Volvo ECR 355	1	10			1							10
Excavator - Hitachi 470	1	10										10
Excavator - John Deere 470	1	10	1									10
Rock Truck - Volvo A30G	2	10	2									20
Dozer - John Deere 550	1	10										10
Dozer - Deere Nortrax 750k LT	1	10	1									10
Loader - CAT 950	1	10			1							10
Drum Roller - CATCS44B	1											0
Sheepsfoot Packer - CAT CP56B	1	10	1									10
Mini Excavator - Bobcat E80	1	10						1				10
Mini Excavator - CAT 80	1	10						1				10
RTV Shuttle	1	10						1				10
Kubota SV90 Skid Steer	1	10		1								10
Pick Up Truck	6	10	1	2	2				1			60
Diesel Plate Tamper	1	10										10
Water pump / hose												0
Water Truck	1	10										10
RT Backhoe - John Deere 710	1	10										10
												0
SUB-CONTRACTOR:												
Work Truck	2	10					2					20
CAT 320 Excavator	2	10				1						20

CAT 330 Excavator													0
John Deer Tractor / Trailer	1	10					1						10
													0
													0
													0
													0
													0
													0
													0
TOTAL EQUIPMENT	28												270

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Indian Creek Area

DCC continue to install jute matting along completed topsoiled areas as per design..
 Stake matting in place as required.
 Cambridge Landscaping installed wooden stakes for tree supports for all planted trees and shrubs.
 Installation of live stake plantings along Riparian Wetland area.

Pond 1

No work at this location

Pond 2 Area - Indian Creek Enhancement

Cambridge Landscaping begin excavation of material along existing embankment creek area for riffle installation.
 Haul material to existing stockpile.
 Stantec technicians on-site to conduct fish rescue during coffer dam installation.

East Track Diversion

DCC resume excavation of material for track diversion east ditch line as per design.
 Place, grade and compact excavated cut ditch material to fill track diversion track bed.
 Continue installation of silt fencing as required.
 Installation of silt fencing as per design

Indian Creek - Temporary Bridge

DCC began removal of south abutment approach planks to bridge.

OTHER:

CN Flagman on site today at south track crossing.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Indian Creek - C.L. install live stakes along Riparian Wetland areas



Indian Creek - C.L. install stake supports for trees and bushes



Indian Creek - Begin dismantle south approach sections at bridge



Indian Creek - Begin dismantle south approach sections at bridge



Nov 22, 2022 at 1:44:53 PM
Milton ON
Canada
Sherwood

East Track Diversion - Excavation and grading for track diversion grading



Nov 22, 2022 at 1:25:22 PM
3233-3241 Lower Base Line W
Milton ON L9E 0K6
Canada

East Track Diversion - Excavation and grading for track diversion grading



Nov 22, 2022 at 1:30:40 PM
3233-3241 Lower Base Line W
Milton ON L9E 0K6
Canada

East Track Diversion - Excavation and grading for track diversion grading



Nov 22, 2022 at 11:59:20 AM
5237 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Excavation of material for riffle installation as per design



Nov 22, 2022 at 11:59:24 AM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Stantec conducting fish rescue at coffer dam area



Nov 22, 2022 at 2:45:41 PM
5247-5277 Tremaine Rd
Milton ON L9E 0L6
Canada

Pond 2 Area - Excavation of material for riffle installation as per design

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **230**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Wednesday
 DATE : 23-Nov-22
 WEATHER : Sun
 TEMPERATURE : 8°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										TOTAL HOURS	
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works	Indian Creek - Julie Matting Installation	Indian Creek - Temp Bridge Removals	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Vac Truck Locales			
CONTRACTOR:												
Project Manager												0
Project Coordinator	1	10										10
Site Superintendent	1	10										10
Forman	3	10	1	1	1				1			30
Operator	9	10	6		1	1	2					90
Laborers	11	10	1	4	2		4					110
Grademan	1	10					1					10
Surveyor												0
												0
												0
Sub-Contractor:												
Super		10										0
Foremen	1	10				1						10
Operator	2	10				2						20
Laborers	1	10				1						10
Iron Worker		10										0
Vac Truck Workers	2	10						2				20
												0
CN Flagman:	1	10										10
CN Signals:												0
												0
Environmental:												
Stantec Environmental Monitor	1	10										10
Stantec Technicians	2	10										20
Archaeological Monitors												0
Indigenous Monitors												0
GEMS	1	10										10
TOTAL LABOUR	36		8	5	4	5	7	1	0	0		360
EQUIPMENT												
TYPE, MODEL, CAPACITY												
CONTRACTOR: Dufferin Construction												
Excavator - Volvo ECR 355	1	10			1							10
Excavator - Hitachi 470	1	10										10
Excavator - John Deere 470	1	10	1									10
Rock Truck - Volvo A30G	2	10	2			1						20
Dozer - John Deere 550	1	10										10
Dozer - Deere Nortrax 750k LT	1	10	1									10
Loader - CAT 950	1	10			1							10
Drum Roller - CATCS44B	1											0
Sheepsfoot Packer - CAT CP56B	1	10	1									10
Mini Excavator - Bobcat E80	1	10					1					10
Mini Excavator - CAT 80	1	10						1				10
RTV Shuttle	1	10						1				10
Kubota SV90 Skid Steer	1	10		1								10
Pick Up Truck	6	10	1	2	2		1					60
Diesel Plate Tamper	1	10										10
Water pump / hose												0
Water Truck	1	10										10
RT Backhoe - John Deere 710	1	10										10
												0
SUB-CONTRACTOR:												
Work Truck	2	10				2						20
CAT 320 Excavator	2	10				1						20

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Indian Creek - C.L. install live stakes along Riparian Wetland areas



Indian Creek - Dismantle and remove bridge decking



Indian Creek - Dismantle and remove bridge decking



East Track Diversion - Excavation of material at east ditch for track diversion



East Track Diversion - Grading of cut/fill material for track diversion



East Track Diversion - DCC QC Tech. conducting compaction testing on cut/fill material



East Track Diversion - Installation of silt fencing



Pond 2 Area - Unsafe cut excavation at Riffle, embankment to be sloped



Pond 2 Area - Excavation of material for slope grading



Pond 2 Area - Removal of existing farm fence for slope grading

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **231**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Thursday
 DATE : 24-Nov-22
 WEATHER : Fog/Sun
 TEMPERATURE : 12°C

PRINT NAME SIGNATURE

LABOUR	ACTIVITY										TOTAL HOURS	
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works	Indian Creek - Jule Matting Installation	Indian Creek - Temp Bridge Removals	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Vac Truck Localles	Tri-A Box Culvert - Cast-In-Place		
CONTRACTOR:												
Project Manager												0
Project Coordinator	1	10										10
Site Superintendent	1	10										10
Forman	4	10	1	1	1			1	1			40
Operator	9	10	6		1		2					90
Laborers	13	10	1	4	2		4			2		130
Grademan	1	10					1					10
Surveyor												0
												0
Sub-Contractor:												
Super		10										0
Foremen	1	10				1						10
Operator	2	10				2						20
Laborers	1	10				1						10
Iron Worker		10										0
Vac Truck Workers	2	10						2				20
												0
CN Flagman:	1	10										10
CN Signals:												0
												0
Environmental:												
Stantec Environmental Monitor	1	10										10
Stantec Technicians	2	10										20
Archaeological Monitors												0
Indigenous Monitors												0
GEMS	1	10										10
TOTAL LABOUR	39		8	5	4	4	7	1	3	0		390
EQUIPMENT												
TYPE, MODEL, CAPACITY												
CONTRACTOR: Dufferin Construction												
Excavator - Volvo ECR 355	1	10			1							10
Excavator - Hitachi 470	1	10										10
Excavator - John Deere 470	1	10	1									10
Rock Truck - Volvo A30G	2	10	2			1						20
Dozer - John Deere 550	1	10										10
Dozer - Deere Nortrax 750k LT	1	10	1									10
Loader - CAT 950	1	10			1							10
Drum Roller - CATCS44B	1											0
Sheepsfoot Packer - CAT CP56B	1	10	1									10
Mini Excavator - Bobcat E80	1	10					1					10
Mini Excavator - CAT 80	1	10					1					10
RTV Shuttle	1	10					1					10
Kubota SV90 Skid Steer	1	10		1								10
Pick Up Truck	8	10	1	2	2		1		2			80
Diesel Plate Tamper	1	10										10
Water pump / hose												0
Water Truck	1	10										10
RT Backhoe - John Deere 710	1	10										10
												0
SUB-CONTRACTOR:												
Work Truck	2	10				2						20
CAT 320 Excavator	2	10				1						20

CAT 330 Excavator												0
John Deer Tractor / Trailer	1	10					1					10
Hi Rail Vac Truck	10							1				0
												0
												0
												0
												0
												0
												0
TOTAL EQUIPMENT	40											290

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Indian Creek Area

DCC continue to install jute matting along completed topsoiled areas as per design..
 Stake matting in place as required.
 Cambridge Landscaping continue installation of live stake plantings along Riparian Wetland areas.

Indian Creek - Temporary Bridge

DCC continue dismantling of temporary bridge.
 Complete removal of bridge decking and store on-site.
 Removal of north side bridge approach materials. Removal of approach planks and concrete blocking and store on-site for future transport.

Pond 2 Area - Indian Creek Enhancement

Cambridge Landscaping continue excavation of material along existing embankment slope along Riffle area to provide a 3:1 embankment slope for safety.
 Haul material to existing stockpile.
 Removal of existing wooden farm fencing and site materials due to site slope excavations. Material placed in piles to be disposed of at a later date.
 Install fencing along embankment edge for safety.
 Continue cutting and trimming of logs and branches for riffle installations.
 Unidentified well discovered during excavation works. Well to be decommissioned as per contract specifications.

East Track Diversion

DCC continue excavation of material for track diversion east ditch line as per design.
 Place, grade and compact excavated cut/fill material to track diversion areas.
 DCC QC technician on-site to conduct compaction testing on cut/fill material for track bed diversion grading.
 Continue installation of silt fencing as per design.

Trib A Box Culvert - Cast-In-Place Works

DCC continue works on Cast-in-Place section of box culvert for Tributary A.
 Removal of outside wall forms.
 Layout for interior walls.

Locates

Badger Hi-Rail vac truck on-site to conduct locates at various locations to locate existing signal/fiber lines as required.

OTHER:

CN Flagman on site today at south track crossing.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Indian Creek Area - Installation of Jute Matting along topsoiled areas



Indian Creek - Removals of north side bridge abutment



Indian Creek - Dismantle and remove bridge decking



Indian Creek - Dismantle and remove north abutment materials from bridge



East Track Diversion - Excavation of material at east ditch for track diversion



Nov 24, 2022 at 11:58:19 AM
Milton ON
Canada
Sherwood

East Track Diversion - Grading of cut/fill material for track diversion



Nov 24, 2022 at 12:47:05 PM
Milton ON
Canada
Sherwood

Trib A Box Culvert - Continue works on Cast in Place section



Nov 24, 2022 at 12:47:26 PM
Milton ON
Canada
Sherwood

Trib A Box Culvert - Continue works on Cast in Place section



Nov 24, 2022 at 02:28:41 AM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Excavation of material for slope grading along embankment



Nov 24, 2022 at 12:26:46 PM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Excavation of material for slope grading



Nov 24, 2022 at 12:27:04 PM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Unknown existing well to be decommissioned

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **232**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Friday
 DATE : 25-Nov-22
 WEATHER : Sun
 TEMPERATURE : 11°C

PRINT NAME

SIGNATURE

LABOUR	ACTIVITY										TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works	Indian Creek - Julie Matting Installation	Pond 1 / Trib A	Pond 2 / Indian Creek Landscaping	Silt Fence Installation	Vac Truck Localles	Trib A Box Culvert - Cast-In-Place	
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	5	10	2	1				1	1		50
Operator	9	10	6			1	1				90
Laborers	13	10	3	4			3		3		130
Grademan	1	10					1				10
Surveyor											0
											0
											0
Sub-Contractor:											
Super		10									0
Foremen	1	10				1					10
Operator	2	10				2					20
Laborers	1	10			9	1					10
Iron Worker		10									0
Vac Truck Workers	2	10						2			20
CN Flagman:	1	10									10
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1	10									10
Stantec Technicians	2	10									20
Archaeological Monitors											0
Indigenous Monitors											0
GEMS	1	10									10
TOTAL LABOUR	40		11	5	9	5	5	1	4	0	400
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1	10									10
Excavator - Hitachi 470	1	10	1								10
Excavator - John Deere 470	1	10	1								10
Rock Truck - Volvo A30G	2	10	2								20
Dozer - John Deere 550	1	10				1					10
Dozer - Deere Nortrax 750k LT	1	10	1								10
Loader - CAT 950	1	10									10
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1	10	1								10
Mini Excavator - Bobcat E80	1	10									10
Mini Excavator - CAT 80	1	10					1				10
RTV Shuttle	1	10					1				10
Kubota SV90 Skid Steer	1	10		1							10
Pick Up Truck	8	10	3	2			1		2		80
Diesel Plate Tamper	1	10									10
Water pump / hose											0
Water Truck	1	10									10
RT Backhoe - John Deere 710	1	10									10
											0
SUB-CONTRACTOR:											
Work Truck	2	10			2	2					20
CAT 320 Excavator	2	10				1					20

CAT 330 Excavator													0
John Deer Tractor / Trailer	1	10					1						10
Hi Rail Vac Truck	10								1				0
													0
													0
													0
													0
													0
TOTAL EQUIPMENT	40												290

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Indian Creek Area

DCC continue to install jute matting along completed topsoiled areas as per design..
Stake matting in place as required.

Pond 2 Area - Indian Creek Enhancement

Cambridge Landscaping complete excavation of material along existing embankment slope along Riffle area to provide a 3:1 embankment slope for safety.
Haul material to existing stockpile.
Install fencing along embankment edge for safety.
Continue cutting and trimming of logs and branches for riffle installations.
DCC install poly tarp along exposed embankment slope for protection against weather elements.
DCC grading of stockpile areas.

East Track Diversion

DCC continue excavation of material for track diversion east ditch line as per design.
Place, grade and compact excavated cut/fill material to track diversion areas.
DCC QC technician on-site to conduct compaction testing on cut/fill material for track bed diversion grading.
DCC moved concrete storm pipes from Laydown Area 1 to work site area.

North Crossing Area

DCC continue to install silt fencing north of north track crossing near cell tower and Britannia Road.
Clearing of farm fencing along ROW east side of track.
Hi-Rail Vac truck on track south of crossing at Ash Location conducting locates of signal cables along the ROW.

Trib A Box Culvert - Cast-In-Place Works

DCC continue works on Cast-in-Place section of box culvert for Tributary A.
Installation of interior wall forms and bracing.

Pond 1 / Tributary A

Cambridge Landscaping continue to install live stake plantings along creek diversion areas as required.
Hydroseed section of Pond 1 / Tributary A topsoiled area as required.

Locates

Badger Hi-Rail vac truck on-site to conduct locates at various locations to locate existing signal/fiber lines as required.

OTHER:

CN Flagman on site today at south track crossing.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Indian Creek Area - Installation of Jute Matting along topsoiled areas



East Track Diversion - Move sewers from Laydown Area 1 to installation site area.



Pond 1/Tributary A - Hydroseed topsoiled areas



Tributary A - Install live stake plantings along creek diversion.



North Track Crossing - Hi-Rail vac truck locating signal cables along ROW



North Track Crossing - Hi-Rail vac truck locating signal cables along ROW



Nov 25, 2022 at 1:06:16 PM
Milton ON
Canada
Sherwood

East Track Diversion - Grading of cut/fill material for track diversion



Nov 25, 2022 at 11:19:31 AM
Milton ON
Canada
Sherwood

Trib A Box Culvert - Installation of forms and bracing for Cast in Place section



Nov 25, 2022 at 11:46:33 AM
Milton ON
Canada
Sherwood

North Crossing Area - Removal of farm fencing along ROW



Nov 25, 2022 at 12:34:00 PM
Milton ON
Canada
Sherwood

North Crossing Area - Installation of silt fencing along ROW as per design.



Nov 25, 2022 at 11:00:33 AM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area Creek Diversion- Excavation of material for slope grading



Nov 25, 2022 at 2:20:31 PM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area Creek Diversion- Install poly tarp along completed slope.

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **233**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Monday
 DATE : 28-Nov-22
 WEATHER : Sun
 TEMPERATURE : 11°C

PRINT NAME

SIGNATURE

LABOUR	ACTIVITY										TOTAL HOURS	
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works	Indian Creek - Jule Matting Installation	Pond 1 / Trib A	Pond 2 / Indian Creek Landscaping	Silt Fence Installation	Vac Truck Localles	Trib A Box Culvert - Cast-In-Place		
CONTRACTOR:												
Project Manager												0
Project Coordinator	1	10										10
Site Superintendent	1	10										10
Forman	5	10	2	1				1	1			50
Operator	9	10	6			1	1					90
Laborers	13	10	3	4			3			3		130
Grademan	1	10					1					10
Surveyor												0
												0
												0
Sub-Contractor:												
Super		10										0
Foremen	1	10				1						10
Operator	2	10				2						20
Laborers	1	10				1						10
Iron Worker		10										0
Vac Truck Workers	2	10						2				20
												0
CN Flagman:	2	10										20
CN Signals:												0
												0
Environmental:												
Stantec Environmental Monitor	1	10										10
Stantec Technicians	2	10										20
Archaeological Monitors												0
Indigenous Monitors												0
GEMS	1	10										10
TOTAL LABOUR	41		11	5	0	5	5	1	4	0		410
EQUIPMENT												
TYPE, MODEL, CAPACITY												
CONTRACTOR: Dufferin Construction												
Excavator - Volvo ECR 355	1	10										10
Excavator - Hitachi 470	1	10	1									10
Excavator - John Deere 470	1	10	1									10
Rock Truck - Volvo A30G	2	10	2									20
Dozer - John Deere 550	1	10				1						10
Dozer - Deere Nortrax 750k LT	1	10	1									10
Loader - CAT 950	1	10										10
Drum Roller - CATCS44B	1											0
Sheepsfoot Packer - CAT CP56B	1	10	1									10
Mini Excavator - Bobcat E80	1	10										10
Mini Excavator - CAT 80	1	10					1					10
RTV Shuttle	1	10					1					10
Kubota SV90 Skid Steer	1	10		1								10
Pick Up Truck	8	10	3	2			1			2		80
Diesel Plate Tamper	1	10										10
Water pump / hose												0
Water Truck	1	10										10
RT Backhoe - John Deere 710	1	10										10
												0
SUB-CONTRACTOR:												
Work Truck	2	10				2						20
CAT 320 Excavator	2	10				1						20

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Pond 2 Area Enhancement - Excavation of material for Riffle installation



Pond 2 Area Enhancement - Excavation of material for Riffle installation



Pond 2 Area Enhancement - Stantec conducting water sampling.



Pond 2 Area Enhancement - Poly tarped protected slope.



North Crossing Area - Begin striping and grading along ROW



East Track Diversion - Grading of cut/fill material for track diversion



East Track Diversion - Grading of cut/fill material for track diversion



East Track Diversion - Grading of cut/fill material for track diversion



Trib A Cast-in-Place Culvert - Forming of inner walls for box culvert



Trib A Cast-in-Place Culvert - Forming of inner walls and bracing for box culvert



Trib A Cast-in-Place Culvert - Removal of form work as required at middle culvert section.

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **234**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Tuesday
 DATE : 29-Nov-22
 WEATHER : Cloudy
 TEMPERATURE : 8°C

PRINT NAME SIGNATURE

LABOUR	ACTIVITY										TOTAL HOURS	
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works - Sewers	Indian Creek - Jule Mailing Installation	CN - Signals Protection	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place	Sun Canoe/In - Pipeline Works		North Grading works
CONTRACTOR:												
Project Manager												0
Project Coordinator	1	10										10
Site Superintendent	1	10										10
Forman	5	10	2	1				1			1	50
Operator	10	10	6				1				3	100
Laborers	12	10	3	2			3	3			1	120
Grademan	1	10					1					10
Surveyor												0
												0
												0
Sub-Contractor:												
Super	1	5							1			5
Foremen	1	10				1						10
Operator	2	10				2						20
Laborers	1	10				1						10
Iron Worker		10										0
Vac Truck Workers	2	10			2							20
Technicians	1	5							1			5
CN Flagman:	2	10										20
CN Signals:	4	10			4							40
												0
Environmental:												
Stantec Environmental Monitor	1	10										10
Stantec Technicians	2	10										20
Archaeological Monitors												0
Indigenous Monitors												0
GEMS	1	10										10
TOTAL LABOUR	47		11	3	6	4	5	4	2	5		460
EQUIPMENT												
TYPE, MODEL, CAPACITY												
CONTRACTOR: Dufferin Construction												
Excavator - Volvo ECR 355	1	10								1		10
Excavator - Hitachi 470	1	10	1									10
Excavator - John Deere 470	1	10	1									10
Rock Truck - Volvo A30G	4	10	2								2	40
Dozer - John Deere 550	1	10										10
Dozer - Deere Nortrax 750k LT	2	10	1							1		20
Loader - CAT 950	1	10										10
Drum Roller - CATCS44B	1											0
Sheepsfoot Packer - CAT CP56B	1	10	1									10
Mini Excavator - Bobcat E80	1	10										10
Mini Excavator - CAT 80	1	10					1					10
RTV Shuttle	1	10					1					10
Kubota SV90 Skid Steer	1	10		1								10
Pick Up Truck	8	10	3	1			1	2				80
Diesel Plate Tamper	1	10	1									10
Water pump / hose												0
Water Truck	1	10										10
RT Backhoe - John Deere 710	1	10			1							10
												0
SUB-CONTRACTOR:												
Work Truck	2	10			3	2			2			20
CAT 320 Excavator	2	10				1						20

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Pond 2 Area Enhancement - Installation of material for Riffle



Pond 2 Area Enhancement - Installation of material for Riffle



Trib A Cast-in-Place - Installation of interior forms for box culvert section



North Crossing Area - Continue striping and grading along ROW



North Crossing Area - Continue striping and grading along ROW



Lower Baseline Area - Encase signals in steel troughing at sewer crossing location



Nov 29, 2022 at 11:24:25 AM
Lower Base Line W
Milton ON
Canada

Lower Baseline Area - Backfill trench at culvert crossing location



Nov 29, 2022 at 11:35:15 AM
Lower Base Line W
Milton ON
Canada

East Track Diversion - Excavation and bedding installation for storm sewer



Nov 29, 2022 at 2:31:14 PM
Milton ON
Canada
Sherwood

North Crossing Area - Installation of construction fencing along the ROW



Nov 29, 2022 at 1:52:49 PM
5269 Tremaine Rd
Milton ON L9E 0L7
Canada

Pond 2 Area - Protection cover of slopes with poly tarps.



Nov 29, 2022 at 2:18:08 PM
Milton ON
Canada
Sherwood

Sun Canadian - Pumping of Nitrogen gas into abandoned pipeline



Nov 29, 2022 at 9:19:53 AM
Milton ON
Canada
Sherwood

East Track Diversion - Grading of cut/fill material for track diversion

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :

A large, empty rectangular box with a thin black border, intended for drawing or pasting photos of daily activities. The box occupies most of the page below the header.

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



East Track Diversion - Grading of cut/fill material for track diversion



East Track Diversion - Grading of cut/fill material for track diversion



East Track Diversion - Grading of cut/fill material for track diversion



East Track Diversion - Grading of cut/fill material for track diversion



East Track Diversion - Excavation of west side ditch cut to fill



East Track Diversion - Excavation of west side ditch cut to fill



Dec 1, 2022 at 12:58:59 PM
 3243-3247 Lower Base Line W
 Milton ON L9E 0J9
 Canada

East Track Diversion - Installation of 2400mm concrete storm sewer



Dec 1, 2022 at 12:59:28 PM
 3243-3247 Lower Base Line W
 Milton ON L9E 0J9
 Canada

East Track Diversion - Installation of 2400mm concrete storm sewer



Dec 1, 2022 at 1:02:07 PM
 3105-3231 Lower Base Line W
 Milton ON L9E 0K6
 Canada

East Track Diversion - Installation of 2400mm concrete storm sewer

Pond 2 Area - Protection cover of slopes with poly tarps.



Dec 1, 2022 at 1:02:13 PM
 3233-3241 Lower Base Line W
 Milton ON L9E 0K6
 Canada

East Track Diversion - Installation of 2400mm concrete storm sewer

East Track Diversion - Grading of cut/fill material for track diversion

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **237**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : MIKE ARRINDELL

DAY : Friday
 DATE : 02-Dec-22
 WEATHER : Sun
 TEMPERATURE : 3°C

PRINT NAME SIGNATURE

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works - Sewers		Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place	North Grading works	TOTAL HOURS	
CONTRACTOR:											
Project Manager										0	
Project Coordinator	1	10								10	
Site Superintendent	1	10								10	
Forman	4	10	2				1		1	40	
Operator	10	10	6			1			3	100	
Laborers	10	10	3			3	3		1	100	
Grademan	1	10				1				10	
Surveyor										0	
										0	
										0	
Sub-Contractor:											
Super										0	
Foremen	1	10				1				10	
Operator	3	10				3				30	
Laborers	1	10				1				10	
Iron Worker	2	10						2		20	
Technicians	1	10	1							10	
										0	
CN Flagman:	1	10								10	
CN Signals:										0	
										0	
Environmental:											
Stantec Environmental Monitor	1	10								10	
Stantec Technicians	2	10								20	
Archaeological Monitors										0	
Indigenous Monitors										0	
GEMS	1	10								10	
TOTAL LABOUR	39		12	0	0	5	5	4	0	5	390
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1	10							1	10	
Excavator - Hitachi 470	1	10	1							10	
Excavator - John Deere 470	1	10	1							10	
Rock Truck - Volvo A30G	3	10	1						2	30	
Dozer - John Deere 550	1	10								10	
Dozer - Deere Nortrax 750k LT	2	10	1						1	20	
Loader - CAT 950	1	10								10	
Drum Roller - CATCS44B	1									0	
Sheepsfoot Packer - CAT CP56B	1	10	1							10	
Mini Excavator - Bobcat E80	1	10								10	
Mini Excavator - CAT 80	1	10					1			10	
RTV Shuttle	1	10					1			10	
Kubota SV90 Skid Steer	1	10								10	
Pick Up Truck	8	10	3				1	2	2	80	
Diesel Plate Tamper	1	10	1							10	
Water pump / hose										0	
Water Truck	1	10								10	
RT Backhoe - John Deere 710	1	10								10	
										0	
SUB-CONTRACTOR:											
Work Truck	2	10				3				20	
CAT 320 Excavator	2	10				2				20	

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



North Crossing Area - Continue striping and grading along ROW



North Crossing Area - Continue striping and grading along ROW



North Crossing Area - Grading of stockpiled topsoil from stripping area.



North Crossing Area - Installation of silt fencing south of north crossing



East Track Diversion - Excavation of west side ditch cut to fill



East Track Diversion - Excavation of west side ditch cut to fill



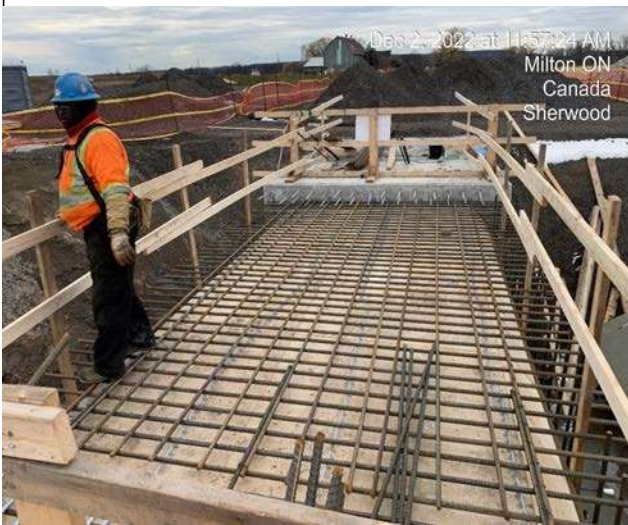
Dec 2, 2022 at 11:02:55 AM
 3233-3241 Lower Base Line W
 Milton ON L9E 0K6
 Canada

East Track Diversion - Backfill and compact 2400mm concrete storm sewer



Dec 2, 2022 at 11:11:08 AM
 3243-3247 Lower Base Line W
 Milton ON L9E 0J9
 Canada

East Track Diversion - Backfill and compact 2400mm concrete storm sewer



Dec 2, 2022 at 11:57:24 AM
 Milton ON
 Canada
 Sherwood

Trib A Cast-in-Place - Installation of steel rebar for west box culvert section



Dec 2, 2022 at 12:02:47 PM
 Milton ON
 Canada
 Sherwood

Trib A Cast-in-Place - Installation of interior forms for middle box culvert section



Dec 2, 2022 at 11:34:48 AM
 5269 Tremaine Rd
 Milton ON L9E 0L7
 Canada

Pond 2 Area Enhancement - Installation of material for Riffle



Dec 2, 2022 at 11:35:40 AM
 5269 Tremaine Rd
 Milton ON L9E 0L7
 Canada

Pond 2 Area Enhancement - Installation of material for Riffle

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **238**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Monday
 DATE : 5-Dec-22
 WEATHER : Partly Cloudy
 TEMPERATURE : 4°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works, Sewers	Indian Creek - Mile Marking Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place		North Grading works	TOTAL HOURS
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	4	10	2				1		1		40
Operator	10	10	6				1			3	100
Laborers	9	10	3				3	2		1	90
Grademan	1	10	1				1				10
Surveyor											0
											0
											0
Sub-Contractor:											
Super											0
Foremen	1	10				1					10
Operator	2	10				2					20
Laborers	2	10				2					20
Iron Worker	3	8						3			24
Technicians	1	10	1								10
											0
CN Flagman:	2	10	1							1	20
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1										0
Stantec Technicians											0
Archaeological Monitors	1	10									10
Indigenous Monitors	1	10									10
GEMS	1	10									10
TOTAL LABOUR	38		14	0	0	5	5	3	0	6	364
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1	10								1	10
Excavator - Hitachi 470	1	10	1								10
Excavator - John Deere 470	1	10	1								10
Rock Truck - Volvo A30G	3	10	1							2	30
Dozer - John Deere 550	1										0
Dozer - Deere Nortrax 750k LT	2	10	1							1	20
Loader - CAT 950	1	10	1								10
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1	10	1								10
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10					1				10
RTV Shuttle	1	10					1				10
Kubota SV90 Skid Steer	1										0
Pick Up Truck	8	10	3				1	2		2	80
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck											0
CAT 320 Excavator	2	10				2					20

CAT 330 Excavator										0
John Deer Tractor / Trailer	1	10				1				10
Hi Rail Vac Truck										0
Tanker Truck										0
										0
										0
										0
										0
TOTAL EQUIPMENT	29									230

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Indian Creek Area
No work at this location.

Pond 2 Area - Indian Creek Enhancement
Cambridge Landscaping continued constructing wooden debris toe protection along Indian Creek enhancement areas today.

East Track Diversion
DCC continue excavation of material for track diversion west side ditch line as per design.
Place, grade and compact excavated cut/fill material to track diversion areas.
DCC QC technician on-site to conduct compaction testing on cut/fill material for track bed diversion grading.
DCC transporting large pea gravel bags to Trib A box culvert track crossing location for proposed cofferdam works.
Thurber (QA) on site to check sub grade track diversion progress section along DCC work area. No issues identified.

North Crossing Area / Sun Canadian Access Road
Continue excavation and stripping of topsoil along the ROW east side of the mainline track heading South of Sun Canadian track crossing.
Place material at stockpile area.

Trib A Box Culvert - Cast-In-Place Works
DCC continue works on Cast-in-Place section of box culvert for Tributary A.
Installation of interior wall forms and bracing.
Harris rebar continued reinforcement placement at Culvert 2B cast in place section (walls and top).

OTHER:
CN Flagman on site today at North and South track crossings.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



East Track Diversion - Grading/shaping ditches heading North to Trib. A



East Track Diversion - Grading/shaping ditches facing South to Culvert 3



Indian Creek - Wooden Toe Protection construction along enhancement areas



Indian Creek - Wooden Toe Protection construction along enhancement areas



Box Culvert 2B - Reinforcement placement at cast in place section



Box Culvert 2B - Reinforcement placement at cast in place section



Track Realignment - Stripped topsoil for track realignment South of Britannia bridge



Track Realignment - Stripping topsoil for track realignment South of Sun Canadian track crossing

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **239**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Tuesday
 DATE : 6-Dec-22
 WEATHER : Overcast
 TEMPERATURE : 5°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works, Sewers	Indian Creek - Mile Marking Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place	North Grading works	TOTAL HOURS	
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	3	10	1				1		1		30
Operator	6	10	3						3		60
Laborers	4	10					3		1		40
Grademan	1	10	1								10
Surveyor											0
											0
											0
Sub-Contractor:											
Super											0
Foremen	1	10				1					10
Operator	2	10				2					20
Laborers	2	10				2					20
Iron Worker	3	6					3				18
Technicians	1	10	1								10
											0
CN Flagman:	2	10	1							1	20
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1										0
Stantec Technicians											0
Archaeological Monitors	1	10									10
Indigenous Monitors	1	10									10
GEMS	1	10									10
TOTAL LABOUR	28		7	0	0	5	0	4	0	6	258
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1	10								1	10
Excavator - Hitachi 470	1										0
Excavator - John Deere 470	1	10	1								10
Rock Truck - Volvo A30G	3	10	1							2	30
Dozer - John Deere 550	1										0
Dozer - Deere Nortrax 750k LT	2	10	1							1	20
Loader - CAT 950	1		1								0
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1		1								0
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10					1				10
RTV Shuttle	1	10					1				10
Kubota SV90 Skid Steer	1										0
Pick Up Truck	6	10	1				1	2		2	60
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck											0
CAT 320 Excavator	2	10				2					20

CAT 330 Excavator										0
John Deer Tractor / Trailer	1	10				1				10
Hi Rail Vac Truck										0
Tanker Truck										0
										0
										0
										0
										0
										0
TOTAL EQUIPMENT	27									180

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Pond 2 Area - Indian Creek Enhancement

Cambridge Landscaping completed constructing next section of wooden debris toe protection along Indian Creek enhancement area.

Removing cofferdam along completed creek enhancement section for relocation.

East Track Diversion

DCC began shaping and grading West ditch along track realignment North of culvert 3 today.

DCC continued transporting large pea gravel bags to East side of Southern track crossing for Trib A box culvert track crossing cofferdam works.

North Crossing Area / Sun Canadian Access Road

Continue excavation and stripping of topsoil along the ROW east side of the mainline track heading South of Sun Canadian track crossing to Ash signals.

Continue place top soil material at stockpile area.

Trib A Box Culvert - Cast-In-Place Works

DCC continue works on Cast-in-Place section of box culvert for Tributary A.

Installation of interior wall forms and bracing.

Harris rebar continued reinforcement placement at Culvert 2B and 2A cast in place section (walls and top).

OTHER:

CN Flagman on site today at South and North track crossings.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



East Track Diversion - Grading/shaping West ditch North of Culvert 3



Indian Creek - Cofferdam removal along completed enhancement section



Indian Creek - Completed Wooden Toe Protection enhancement section



Box Culvert 2A - Reinforcement placement at cast in place section



Box Culvert 2A - Interior form work installation for cast in place section



Track Realignment - Stripping topsoil for track realignment South of Sun Canadian track crossing

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **240**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Wednesday
 DATE : 7-Dec-22
 WEATHER : Cloudy
 TEMPERATURE : 7°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										TOTAL HOURS
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works, Sewers	Indian Creek - Mile Marking Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place	North Grading works		
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	4	10	1		1		1		1		40
Operator	8	10	3		2				3		80
Laborers	7	10			3		3		1		70
Grademan	1	10	1								10
Surveyor											0
											0
											0
Sub-Contractor:											
Super											0
Foremen	1	10			1						10
Operator	2	10			1						20
Laborers	2	10			2						20
Iron Worker	3	8					3				24
Technicians	1	8	1								8
											0
CN Flagman:	2	10	0.5							1.5	20
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1										0
Stantec Technicians											0
Archaeological Monitors	1	10									10
Indigenous Monitors	1	10									10
GEMS	1	10									10
TOTAL LABOUR	34		6.5	0	0	10	0	4	0	6.5	322
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1	10								1	10
Excavator - Hitachi 470	1										0
Excavator - John Deere 470	1	10	1								10
Rock Truck - Volvo A30G	3	10	1							2	30
Dozer - John Deere 550	1	10				1					10
Dozer - Deere Nortrax 750k LT	2	10	1							1	20
Loader - CAT 950	1	10				1					10
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1	10	1								10
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10									10
RTV Shuttle	1	10									10
Kubota SV90 Skid Steer	1										0
Pick Up Truck	6	10	1			1		2		2	60
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck											0
CAT 320 Excavator	2	4				1					8

CAT 330 Excavator												0
John Deer Tractor / Trailer	1	10					1					10
Hi Rail Vac Truck												0
Tanker Truck												0
												0
												0
												0
												0
												0
TOTAL EQUIPMENT	27											198

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Pond 2 Area - Indian Creek Enhancement

Cambridge Landscaping completed removing cofferdam along completed creek enhancement section for relocation.

Cambridge cleaning up work area for next creek enhancement section.

DCC relocating timber access matting for next creek enhancement work area and cofferdam installation.

East Track Diversion

DCC continued shaping and grading West ditch along track realignment North of culvert 3.

DCC continued grading and compacting track bed from culvert 3 North to STN. 64+500.

DCC QC on site checking compaction.

North Crossing Area / Sun Canadian Access Road

Continue excavation and stripping of topsoil along the ROW east side of the mainline track heading South of Sun Canadian track crossing to Ash signals.

Continue place top soil material at stockpile area.

Trib A Box Culvert - Cast-In-Place Works

DCC installing exterior forms for cast in place box culvert 2B section.

Harris rebar installing reinforcement at last Culvert 2A cast in place section (walls and top).

OTHER:

CN Flagman on site today at track crossings.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



East Track Diversion - Installed ESC at West ditch outlet North of Culvert 3



East Track Diversion - Grading/shaping West ditch North of Culvert 3



Indian Creek - Removed cofferdam at completed enhancement section



Indian Creek - Relocate matting for next cofferdam enhancement section



Box Culvert 2B - Exterior form work installation for cast in place section



Track Realignment - Stripping topsoil for track realignment heading South to Ash Signals

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **241**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Thursday
 DATE : 8-Dec-22
 WEATHER : Partly Cloudy
 TEMPERATURE : 5°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works, Sewers	Indian Creek - Mile Marking Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place		North Grading works	TOTAL HOURS
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	3	10	2				1				30
Operator	9	10	7						2		90
Laborers	6	10	3				3				60
Grademan	1	10	1								10
Surveyor											0
											0
											0
Sub-Contractor:											
Super											0
Foremen	1	10				1					10
Operator	2	10				2					20
Laborers	2	10				2					20
Iron Worker	3	4					3				12
Technicians	1	8	1								8
											0
CN Flagman:	2	10	1.5							0.5	20
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1										0
Stantec Technicians											0
Archaeological Monitors	1	10									10
Indigenous Monitors	1	10									10
GEMS	1	10									10
TOTAL LABOUR	33		15.5	0	0	5	0	4	0	2.5	300
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1	5								1	5
Excavator - Hitachi 470	1	10	1								10
Excavator - John Deere 470	1	10	1								10
Rock Truck - Volvo A30G	3	10	3								30
Dozer - John Deere 550	1	10	1								10
Dozer - Deere Nortrax 750k LT	1	10							1		10
Loader - CAT 950	1	10	1								10
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1	5	1								5
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10									10
RTV Shuttle	1	10									10
Kubota SV90 Skid Steer	1										0
Pick Up Truck	6	10	3					2		1	60
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck											0
CAT 320 Excavator	1	8				1					8

CAT 330 Excavator											0
John Deer Tractor / Trailer	1	10				1					10
Hi Rail Vac Truck											0
Tanker Truck											0
											0
											0
											0
											0
TOTAL EQUIPMENT	25										188

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Pond 2 Area - Indian Creek Enhancement

DCC completed cofferdam installation at next creek enhancement work area.

Cambridge Landscaping setting up for next creek enhancement work area with riparian wetland pond.

East Track Diversion

DCC cutting to stockpile native material for proposed track bed South of Trib. A.

DCC excavated and installed the 33m length of 900mm dia. csp track realignment culvert crossing at Stn. 65+325 (located North of culvert 3) per design.

DCC bedding and compacting culvert with gran. B type 2 material in lifts.

DCC QC on site checking compaction.

North Crossing Area / Sun Canadian Access Road

Continue excavation and stripping of topsoil along the ROW east side of the mainline track heading South to Ash signals.

Continue place top soil material at stockpile area.

Grade/shape topsoil soil stockpile today.

Trib A Box Culvert - Cast-In-Place Works

DCC installing exterior forms for cast in place box culvert 2A sections.

Harris rebar completed installing reinforcement at last Culvert 2A cast in place section (walls and top).

OTHER:

2 CN Flagman on site today.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



East Track Diversion - 900mm csp culvert crossing install at Stn. 65+325



East Track Diversion - Cut to stockpile track profile South of Trib. A



East Track Diversion - Cut to stockpile track profile South of Trib. A



Indian Creek - Installed cofferdam for next enhancement section



Box Culvert 2B - Installed exterior forms for cast in place section



Track Realignment - Stripping topsoil for track realignment heading South to Ash Signals

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **242**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Friday
 DATE : 9-Dec-22
 WEATHER : Cloudy
 TEMPERATURE : 0°C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works - Sewers	Indian Creek - Mile Marking Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place		North Grading works	TOTAL HOURS
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	3	10	2				1				30
Operator	7	10	6						1		70
Laborers	6	10	3				3				60
Grademan	1	10	1								10
Surveyor											0
											0
											0
Sub-Contractor:											
Super											0
Foremen	1	10				1					10
Operator	2	10				2					20
Laborers	2	10				2					20
Iron Worker											0
Technicians	1	10	1								10
											0
CN Flagman:	2	10	1							1	20
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1										0
Stantec Technicians											0
Archaeological Monitors	1	10									10
Indigenous Monitors	1	10									10
GEMS	1	10									10
TOTAL LABOUR	28		14	0	0	5	0	4	0	2	270
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1										0
Excavator - Hitachi 470	1	10	1								10
Excavator - John Deere 470	1	10	1								10
Rock Truck - Volvo A30G	3	10	3								30
Dozer - John Deere 550	1	10	1								10
Dozer - Deere Nortrax 750k LT	1										0
Loader - CAT 950	2	10	1							1	20
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1	5	1								5
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10									10
RTV Shuttle	1	10									10
Kubota SV90 Skid Steer	1										0
Pick Up Truck	5	10	3					2			50
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck											0
CAT 320 Excavator	1	10				1					10

CAT 330 Excavator												0
John Deer Tractor / Trailer	1	10					1					10
Hi Rail Vac Truck												0
Tanker Truck												0
												0
												0
												0
												0
												0
TOTAL EQUIPMENT	25											175

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Pond 2 Area - Indian Creek Enhancement

Cambridge Landscaping began excavation for wooden toe debris enhancement section today.

East Track Diversion

DCC continued cutting to stockpile native material for proposed track bed South of Trib. A.
DCC shaping Eastern track slope South of Trib A.
DCC completed backfilling and compacting installed 900mm dia. csp culvert crossing at Stn. 65+325 with gran. B type 2 material in lifts.
DCC QC on site checking compaction.

North Crossing Area / Sun Canadian Access Road

No Grading Activity today.
DCC staging track sewer material South of Britannia bridge

Trib A Box Culvert - Cast-In-Place Works

DCC completed installing exterior forms for cast in place box culvert sections in preparation of concrete pour this Monday, Dec. 12, 2022.

OTHER:

2 CN Flagman on site today.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



East Track Diversion - Backfill/Compacting culvert crossing at Stn. 65+325



East Track Diversion - Backfill/Compacting culvert crossing at Stn. 65+325



East Track Diversion - Cut to stockpile track profile South of Trib. A



East Track Diversion - Grading track shoulder slope South of Trib. A



Indian Creek - Excavation for wooden toe debris enhancement section



Indian Creek - Excavation for wooden toe debris enhancement section

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **243**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Monday
 DATE : 12-Dec-22
 WEATHER : Overcast
 TEMPERATURE : -3 °C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works - Sewers	Indian Creek - Jule Marling Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place		North Grading works	TOTAL HOURS
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	3	10			1		1		1		30
Operator	4	10			2				2		40
Laborers	8	10			2		4		2		80
Grademan											0
Surveyor											0
											0
											0
Sub-Contractor:											
Super											0
Foremen	1	10			1						10
Operator	2	10			2						20
Laborers	2	10			2						20
Iron Worker											0
Technicians											0
											0
CN Flagman:	2	10	1						1		20
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1										0
Stantec Technicians											0
Archaeological Monitors	1	10									10
Indigenous Monitors	1	10									10
GEMS	1	10									10
TOTAL LABOUR	25		1	0	0	10	0	5	0	6	240
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1										0
Excavator - Hitachi 470	1										0
Excavator - John Deere 470	1										0
Rock Truck - Volvo A30G	2	10			1				1		20
Dozer - John Deere 550	1	10									10
Dozer - Deere Nortrax 750k LT	1				1						0
Loader - CAT 950	1	10							1		10
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1										0
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10									10
RTV Shuttle	2	10			1				1		20
Kubota SV90 Skid Steer	1										0
Pick Up Truck	5	10			2		2		1		50
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck	1	10			1						10
CAT 320 Excavator	1	10			1						10

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Track Realignment Sewer - 750mm conc. Storm sewer install at Stn. 62+650



Trib. A - Concrete placement for cast in place box culvert 2A



Trib A - Pumping box culvert cast in place sections



Trib. A - Finished surface cast in place box culvert section 2A



Indian Creek - Excavation for wooden toe debris enhancement section



Indian Creek/SWM Pond 2 - Shape berm along enhancement area

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **244**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
 AECOM PROJECT NO. : 60579933
 CLIENT'S CONTRACT NO. : BW314-38.72-1.1
 CONTRACTOR : Dufferin Construction Company
 PREPARED BY : PAUL SCHIPANI

DAY : Tuesday
 DATE : 13-Dec-22
 WEATHER : Sunny
 TEMPERATURE : -5 °C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works, Sewers	Indian Creek - Mile Marking Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place		North Grading works	TOTAL HOURS
CONTRACTOR:											
Project Manager											0
Project Coordinator	1	10									10
Site Superintendent	1	10									10
Forman	4	10	1		1		1		1		40
Operator	7	10	3		2				2		70
Laborers	8	10			2		4		2		80
Grademan	1	10	1								10
Surveyor											0
											0
											0
Sub-Contractor:											
Super											0
Foremen	1	10			1						10
Operator	2	10			2						20
Laborers	2	10			2						20
Iron Worker											0
Technicians											0
											0
CN Flagman:	2	10	1						1		20
CN Signals:											0
											0
Environmental:											
Stantec Environmental Monitor	1										0
Stantec Technicians											0
Archaeological Monitors	1	10									10
Indigenous Monitors	1	10									10
GEMS	1	10									10
TOTAL LABOUR	30		6	0	0	10	0	5	0	6	290
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1										0
Excavator - Hitachi 470	1										0
Excavator - John Deere 470	1	10	1								10
Rock Truck - Volvo A30G	1	10	2			1			1		10
Dozer - John Deere 550	1	10									10
Dozer - Deere Nortrax 750k LT	1	10	1			1					10
Loader - CAT 950	1	10							1		10
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1	5	1								5
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10									10
RTV Shuttle	2	10				1			1		20
Kubota SV90 Skid Steer	1										0
Pick Up Truck	5	10				2		2	1		50
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck	1	10				1					10
CAT 320 Excavator	1	10				1					10

CAT 330 Excavator												0
John Deer Tractor / Trailer	1	10					1					10
Hi Rail Vac Truck												0
Tanker Truck												0
												0
												0
												0
												0
TOTAL EQUIPMENT	24											165

FLAGMAN'S NAME :	CN Flagman
TYPE OF PROTECTION :	R42
MILE, TIME, ETC. :	Halton Sub., Mile 39.6 to Mile 42.9

SITE SAFETY ISSUES:	(include names, infraction & actions taken)					
EMPLOYEE NAME	CONT.	SUB.	INFRACTION			ACTIONS TAKEN

THIRD PARTY ISSUES:	(include names, discussions actions taken)			
NAME	DISCUSSIONS			ACTIONS TAKEN

NOTES OF TODAY'S ACTIVITIES & PROGRESS : (include any delays or instructions to contractors)

WORKS:

Pond 2 Area - Indian Creek Enhancement

Cambridge Landscaping completed excavating and installing the wooden toe debris enhancement section today.

Cambridge excavating riparian wetland pond beside creek enhancement work area today per design.

DCC grading embankment slope located between Red Barn and SWM Pond 2.

East Track Diversion

DCC continued cutting to stockpile native material for proposed track bed South of Trib. A.

North Crossing Area / Sun Canadian Access Road

DCC completed excavating and installing the 750mm dia. Concrete storm sewer section at Stn. 62+650 located along East side of track realignment (South of Britannia Br

DCC backfilling and compacting installed storm sewer with granular material.

DCC QC on site to check compaction today.

Trib A Box Culvert - Cast-In-Place Works

DCC began stripping interior forms of cast in place box culvert sections.

OTHER:

2 CN Flagman on site today.

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Indian Creek - Excavation for Riparian Wetland pond at enhancement section

Indian Creek/SWM Pond 2 - Shape berm along enhancement area



Track Realignment Sewer - 750mm conc. Storm sewer install at Stn. 62+650

East Track Diversion - Cut to stockpile track profile South of Trib. A

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION



RAILWAY ENGINEERING

DAILY PROGRESS REPORT

No.: **245**

PROJECT DESCRIPTION : Milton Logistics Hub – Phase 1: Grading & Drainage
 Mile 38.72 to 40.98 Halton Sub.
AECOM PROJECT NO. : 60579933
CLIENT'S CONTRACT NO. : BW314-38.72-1.1
CONTRACTOR : Dufferin Construction Company
PREPARED BY : PAUL SCHIPANI

DAY : Wednesday
DATE : 14-Dec-22
WEATHER : Partly Cloudy
TEMPERATURE : -5 °C

PRINT NAME _____ SIGNATURE _____

LABOUR	ACTIVITY										
	CLASSIFICATION "INCLUDING OPERATORS"	NUMBER	HOURS	East Track Diversion - Grading Works - Sewers	Indian Creek - Mile Marking Installation	Pond 2/Indian Creek Landscaping	Silt Fence Installation	Trib A Box Culvert - Cast-in-Place	North Grading works	TOTAL HOURS	
CONTRACTOR:											
Project Manager										0	
Project Coordinator	1	10								10	
Site Superintendent	1	10								10	
Forman	4	10	2		1		1			40	
Operator	6	10	4		2					60	
Laborers	8	10	3		2		3			80	
Grademan										0	
Surveyor										0	
										0	
										0	
Sub-Contractor:											
Super										0	
Foremen	1	10			1					10	
Operator	2	10			2					20	
Laborers	2	10			2					20	
Iron Worker										0	
Technicians										0	
										0	
CN Flagman:	2	10	1						1	20	
CN Signals:										0	
										0	
Environmental:											
Stantec Environmental Monitor	1									0	
Stantec Technicians										0	
Archaeological Monitors	1	10								10	
Indigenous Monitors	1	10								10	
GEMS	1	10								10	
TOTAL LABOUR	28		10	0	0	10	0	4	0	1	270
EQUIPMENT											
TYPE, MODEL, CAPACITY											
CONTRACTOR: Dufferin Construction											
Excavator - Volvo ECR 355	1										0
Excavator - Hitachi 470	1	10	1								10
Excavator - John Deere 470	1	7	1								7
Rock Truck - Volvo A30G	1	6	1								6
Dozer - John Deere 550	1	8	1								8
Dozer - Deere Nortrax 750k LT	1	8				1					8
Loader - CAT 950	1	10	1								10
Drum Roller - CATCS44B	1										0
Sheepsfoot Packer - CAT CP56B	1										0
Mini Excavator - Bobcat E80	1										0
Mini Excavator - CAT 80	1	10									10
RTV Shuttle	2	10				1			1		20
Kubota SV90 Skid Steer	1										0
Pick Up Truck	5	10				2		2	1		50
Diesel Plate Tamper											0
Water pump / hose											0
Water Truck	1										0
RT Backhoe - John Deere 710	1										0
											0
SUB-CONTRACTOR:											
Work Truck	1	10				1					10
CAT 320 Excavator	1	10				1					10

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :



Indian Creek - Completed riparian wetland pond at enhancement section



SWM Pond #2 - Grading outlet channel at Headwall P2D



Indian Creek/SWM Pond 2 - Grade topsoil berm along enhancement area



Track Realignment - Installed 750mm Stm. Sewer section at Stn. 62+650



Trib. A - Fish rescue and dewatering creek section at prop. Track realignment



Track Realignment - Identified organic material South of Trib. A

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION

SKETCH OR PHOTOS OF DAY'S ACTIVITIES :

--	--	--

MATERIALS OR EQUIPMENT DELIVERED TO SITE :	QUANTITY	LOCATION

**CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up
Program Results
Appendix C Instrument Calibration Certificates
March 30, 2023**

Appendix C Instrument Calibration Certificates



Calibration Certificate

Certificate Number 2022000700

Customer:
Stantec Consulting

Model Number	CAL200	Procedure Number	D0001.8386
Serial Number	4813	Technician	Abraham Ortega
Test Results	Pass	Calibration Date	19 Jan 2022
Initial Condition	AS RECEIVED same as shipped	Calibration Due	19 Jan 2023
Description	Larson Davis CAL200 Acoustic Calibrator	Temperature	22 °C ± 0.3 °C
		Humidity	32 %RH ± 3 %RH
		Static Pressure	101.1 kPa ± 1 kPa

Evaluation Method The data is acquired by the insert voltage calibration method using the reference microphone's open circuit sensitivity. Data reported in dB re 20 µPa.

Compliance Standards Compliant to Manufacturer Specifications per D0001.8190 and the following standards:
IEC 60942:2017 ANSI S1.40-2006

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

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

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

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Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis Model 2900 Real Time Analyzer	04/01/2021	04/01/2022	001051
Agilent 34401A DMM	03/02/2021	03/02/2022	002588
Microphone Calibration System	02/24/2021	02/24/2022	005446
1/2" Preamplifier	08/26/2021	08/26/2022	006506
Larson Davis 1/2" Preamplifier 7-pin LEMO	08/09/2021	08/09/2022	006507
1/2 inch Microphone - RI - 200V	09/23/2021	09/23/2022	006511
Hart Scientific 2626-H Temperature Probe	02/04/2021	08/04/2022	006767
Pressure Transducer	06/28/2021	06/28/2022	007310

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Provo, UT 84601, United States
716-684-0001



LARSON DAVIS
A PCB DIVISION

Output Level

Nominal Level [dB]	Pressure [kPa]	Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
114	101.3	114.03	113.80	114.20	0.14	Pass
94	101.1	93.98	93.80	94.20	0.15	Pass

-- End of measurement results--

Frequency

Nominal Level [dB]	Pressure [kPa]	Test Result [Hz]	Lower limit [Hz]	Upper limit [Hz]	Expanded Uncertainty [Hz]	Result
114	101.3	1,000.11	993.00	1,007.00	0.20	Pass
94	101.1	1,000.14	993.00	1,007.00	0.20	Pass

-- End of measurement results--

Total Harmonic Distortion + Noise (THD+N)

Nominal Level [dB]	Pressure [kPa]	Test Result [%]	Lower limit [%]	Upper limit [%]	Expanded Uncertainty [%]	Result
114	101.3	0.31	0.00	2.00	0.25 ‡	Pass
94	101.1	0.37	0.00	2.00	0.25 ‡	Pass

-- End of measurement results--

Level Change Over Pressure

Tested at: 114 dB, 22 °C, 32 %RH

Nominal Pressure [kPa]	Pressure [kPa]	Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
108.0	108.0	-0.02	-0.25	0.25	0.04 ‡	Pass
101.3	101.5	0.00	-0.25	0.25	0.04 ‡	Pass
92.0	92.0	0.03	-0.25	0.25	0.04 ‡	Pass
83.0	82.7	0.03	-0.25	0.25	0.04 ‡	Pass
74.0	74.0	0.01	-0.25	0.25	0.04 ‡	Pass
65.0	65.1	-0.05	-0.25	0.25	0.04 ‡	Pass

-- End of measurement results--

Frequency Change Over Pressure

Tested at: 114 dB, 22 °C, 32 %RH

Nominal Pressure [kPa]	Pressure [kPa]	Test Result [Hz]	Lower limit [Hz]	Upper limit [Hz]	Expanded Uncertainty [Hz]	Result
108.0	108.0	0.00	-7.00	7.00	0.20 ‡	Pass
101.3	101.5	0.00	-7.00	7.00	0.20 ‡	Pass
92.0	92.0	0.00	-7.00	7.00	0.20 ‡	Pass
83.0	82.7	-0.01	-7.00	7.00	0.20 ‡	Pass
74.0	74.0	-0.01	-7.00	7.00	0.20 ‡	Pass
65.0	65.1	-0.01	-7.00	7.00	0.20 ‡	Pass

-- End of measurement results--

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Total Harmonic Distortion + Noise (THD+N) Over Pressure

Tested at: 114 dB, 22 °C, 32 %RH

Nominal Pressure [kPa]	Pressure [kPa]	Test Result [%]	Lower limit [%]	Upper limit [%]	Expanded Uncertainty [%]	Result
108.0	108.0	0.31	0.00	2.00	0.25 ‡	Pass
101.3	101.5	0.31	0.00	2.00	0.25 ‡	Pass
92.0	92.0	0.31	0.00	2.00	0.25 ‡	Pass
83.0	82.7	0.31	0.00	2.00	0.25 ‡	Pass
74.0	74.0	0.32	0.00	2.00	0.25 ‡	Pass
65.0	65.1	0.33	0.00	2.00	0.25 ‡	Pass

-- End of measurement results--

Signatory: Abraham Ortega

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 90190	12/21/2021	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14143**
Software Version: 1.8.1

Date of Calibration: 12/1/2021

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 90232	1/6/2022	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14159**
Software Version: 1.8.1

Date of Calibration: 1/6/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 90246	12/29/2021	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14168**
Software Version: 1.8.1

Date of Calibration: 12/6/2021

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 90241	1/6/2022	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14164**
Software Version: 1.8.1

Date of Calibration: 1/6/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>



CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 95550	6/6/2022	Ottawa, Canada	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14193**
Software Version: 1.8.1

Date of Calibration: 6/6/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Acoustic Calibrator: Svantek SV36 #116312
Signal Generator: Keysight 33521B #MY59000555

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Ross Campbell

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 90243	12/29/2021	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14165**
Software Version: 1.8.1

Date of Calibration: 12/6/2021

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 95091	5/19/2022	Ottawa, Canada	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14165**
Software Version: 1.8.1

Date of Calibration: 5/19/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Acoustic Calibrator: Svantek SV36 #116312
Signal Generator: Keysight 33521B #MY59000555

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Ross Campbell

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 91030	1/28/2022	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14195**
Software Version: 1.8.1

Date of Calibration: 1/18/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 90245	12/29/2021	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14167**
Software Version: 1.8.1

Date of Calibration: 12/6/2021

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 95552	6/6/2022	Ottawa, Canada	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14167**
Software Version: 1.8.1

Date of Calibration: 6/6/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Acoustic Calibrator: Svantek SV36 #116312
Signal Generator: Keysight 33521B #MY59000555

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

<Original signed by>

Calibration performed by: Ross Campbell

Signature: ...



CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 95553	6/6/2022	Ottawa, Canada	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14197**
Software Version: 1.8.1

Date of Calibration: 6/6/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Acoustic Calibrator: Svantek SV36 #116312
Signal Generator: Keysight 33521B #MY59000555

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Ross Campbell

Signature:

<Original signed by>





CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 91032	1/28/2022	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14197**
Software Version: 1.8.1

Date of Calibration: 1/18/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 90251	12/29/2021	Älvsjö, Sweden	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14169**
Software Version: 1.8.1

Date of Calibration: 12/6/2021

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Signal Generator: Keysight 33521B #MY52703206
Acoustic Calibrator: Svantek SV30A #29122

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Patrick Jacobsen

Signature:

<Original signed by>

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CALIBRATION DOCUMENT

Document No:	Print Date:	Location of Calibration:	Page No:
Cal 95551	6/6/2022	Ottawa, Canada	1 / 1

Customer: Stantec (Mississauga)

Device under Test: INFRA S50 Sound Level Meter
SN: **14169**
Software Version: 1.8.1

Date of Calibration: 6/6/2022

Ambient Conditions: 23° C ± 2° C (73.4° F ± 3.6° F)

Method of Measurement: Absolute gain at 94 dBA / 1000 Hz using acoustic calibrator.
Rel. gain between standards and freq. weighting using electrical signals.

Equipment: Acoustic Calibrator: Svantek SV36 #116312
Signal Generator: Keysight 33521B #MY59000555

Traceability: Traceable to national and international standards.

Result of Measurement: Results are within specification limits.

Recommended Interval of Calibration: 12 months.

Calibration performed by: Ross Campbell

Signature: 

<Original signed by>

Sn 14188



Vaisala is ISO 9001, ISO 14001 and AQAP 2110 certified company.

CALIBRATION CERTIFICATE

This Certificate may only be reproduced in full, except with the prior written permission by the issuing Laboratory.

Certificate Number: HEL214210284



Instrument: PTUMODULE
Serial Number: T4120224
Manufacturer: Vaisala Oyj
Issue Date: 2021-10-18

Approved by:

Digitally signed by TEMAL2
 Date: 2021.10.18 12:35:17 +03:00
 Reason: Calibration responsible
 Location: Vaisala Oyj, Finland

The humidity sensor of the instrument was calibrated by comparing the instrument's humidity reading to a generated reference humidity reading. The reference humidity reading was calculated based on two-pressure humidity generation principle, using the measurement results of saturator pressure and temperature and calibration chamber pressure and temperature. The temperature sensor of the instrument was calibrated by comparing the instrument's temperature readings to a reference thermometer. The pressure sensor of the instrument was calibrated by comparing the instrument's pressure readings to a reference barometer.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95 %. The measurement results are traceable to the international system of units (SI) through national metrology institutes (NIST USA, MIKES Finland, or equivalent) or via ISO/IEC 17025 accredited calibration laboratories.

Humidity and temperature calibration results, calibration date 2021-10-13

Reference Humidity [%rh]	Reference Temperature [°C]	Observed Humidity [%rh]	Observed Temperature [°C]	Humidity Error [%rh]	Acceptance Limit [%rh]
0.0	22.21	0.0	22.19	0.0	±3.0
15.0	22.22	14.8	22.21	-0.2	±3.0
33.0	22.22	32.9	22.22	-0.1	±3.0
54.1	22.22	54.0	22.23	-0.1	±3.0
75.0	22.23	75.0	22.23	0.0	±3.0
95.2	22.23	96.3	22.23	1.1	±5.0

Reference Temperature [°C]	Observed Temperature [°C]	Temperature Error [°C]	Acceptance Limit [°C]
22.23	22.23	0.00	±0.30

Ambient conditions in humidity and temperature calibration

Humidity [%rh] Temperature [°C] Pressure [hPa]
 32 ±4 23 ±2 1005 ±20

Reference equipment used in Humidity and temperature calibration

Type	Identity Number	Certificate Number	Calibration date	Calibration due date
PTU307	17050	K008-E00487	2021-02-09	2022-02-28
PXI Pt-100 sensor	17007	K008-D04418	2020-12-03	2021-12-31
DPS823B	19385	K008-D03720	2020-10-12	2021-10-31
PXI Pt-100 sensor	16998	K008-D04417	2020-12-03	2021-12-31
PXI-4070	17090	D04415	2020-12-04	2021-12-31

Pressure calibration results, calibration date 2021-10-12

Reference Pressure [hPa]	Observed Pressure [hPa]	Pressure Error [hPa]	Acceptance limit [hPa]
601.1	601.1	0.0	±0.5
801.2	801.2	0.0	±0.5
900.9	900.9	0.0	±0.5
1080.0	1080.0	0.0	±0.5

Reference equipment used in pressure calibration

Type	Identity Number	Certificate Number	Calibration date	Calibration due date
Fluke RPM4	20114	E02795	2021-06-16	2021-12

Calibration uncertainty (k=2, ~95% confidence level):

Humidity ±0.6 %rh @ 0...40 %rh, ±1.0 %rh @ 40...95 %rh
 Temperature ±0.10 °C
 Pressure ±0.3 hPa

Sn 14188



Test report no. HEL214210282

TEST REPORT

Product family WXT530 series
Product type WXT536
Order code 6B1B2A1D1B1B
Serial number T4210627
Manufacturer Vaisala Oyj, Finland
Test date 18 October 2021

This test report certifies that the product was thoroughly tested and inspected, and found to meet its published test limits when it was shipped from Vaisala.

Test results

Test	Result	Lower limit	Upper limit	Unit
Rain response	374	345	575	mV
Zero wind speed	0	0	0.4	m/s
Pressure difference	0.12	-1	1	hPa
Temperature difference	0.02	-2	2	°C
Humidity difference	-0.02	-10	10	%RH
Heating current	0.74	0.6	0.8	A
Current (service port)	4.32	0.5	6	mA
Communication (service port)	pass	PASS	PASS	-
Current (main port)	3.75	0.5	6	mA
Communication (main port)	pass	PASS	PASS	-

Ambient conditions / Humidity 22.18 ±5 %RH, Temperature 23.32 ±1 °C, Pressure 1007.02 ±1 hPa.

Signature <Original signed by>

Technician

**CN Milton Logistics Hub: 2022 Construction Acoustic Environment Follow-up
Program Results**
Appendix D Noise Monitoring Data and Summary Tables
March 30, 2023

Appendix D Noise Monitoring Data and Summary Tables



Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

means data not collected due to equipment battery failure
 means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Jan-24-22 07:00	1	45	45	43	41	52	44	51	56	52	-	3	320	0.0	-13	TRUE
Jan-24-22 08:00	1	55	48	54	46	54	48	52	57	53	-	1	0	0.0	-12	TRUE
Jan-24-22 09:00	1	55	70	71	54	52	52	54	60	56	-	2	40	0.0	-10	TRUE
Jan-24-22 10:00	1	46	60	58	45	53	50	49	53	53	-	5	110	0.0	-9	TRUE
Jan-24-22 11:00	1	50	65	67	53	52	50	51	55	54	-	6	80	0.0	-8	TRUE
Jan-24-22 12:00	1	61	65	67	50	52	53	50	57	52	-	3	70	0.3	-7	FALSE
Jan-24-22 13:00	1	48	64	67	53	54	53	49	56	54	-	8	210	0.3	-5	FALSE
Jan-24-22 14:00	1	44	45	49	46	54	54	48	52	54	-	12	220	0.0	-6	TRUE
Jan-24-22 15:00	1	58	46	61	49	53	49	51	55	54	-	6	200	0.4	-6	FALSE
Jan-24-22 16:00	1	52	67	64	49	54	47	48	52	53	-	4	190	0.2	-6	FALSE
Jan-24-22 17:00	1	46	64	64	50	52	46	46	51	51	-	1	140	0.2	-6	FALSE
Jan-24-22 18:00	1	46	55	54	45	49	41	44	47	49	-	3	80	0.6	-6	FALSE
Jan-24-22 19:00	1	42	40	44	45	50	40	44	44	53	-	3	50	0.2	-6	FALSE
Jan-24-22 20:00	1	50	67	69	52	51	49	50	54	55	-	2	50	0.0	-7	TRUE
Jan-24-22 21:00	1	46	60	59	45	51	48	47	52	51	-	2	340	0.0	-6	TRUE
Jan-24-22 22:00	1	44	41	40	38	49	37	42	42	46	-	2	270	0.0	-6	TRUE
Jan-24-22 23:00	1	41	41	40	37	47	35	40	41	46	-	6	270	0.0	-5	TRUE
Jan-25-22 00:00	1	41	39	41	37	45	37	40	43	44	-	6	260	0.0	-6	TRUE
Jan-25-22 01:00	1	43	63	58	43	44	44	42	54	43	-	7	260	0.0	-6	TRUE
Jan-25-22 02:00	1	42	56	58	43	41	42	41	49	41	-	5	260	0.0	-7	TRUE
Jan-25-22 03:00	1	50	64	64	47	44	51	45	59	46	-	7	260	0.0	-6	TRUE
Jan-25-22 04:00	1	38	40	37	42	43	39	41	48	42	-	8	290	0.0	-6	TRUE
Jan-25-22 05:00	1	40	36	42	39	48	38	42	44	47	-	8	280	0.0	-6	TRUE
Jan-25-22 06:00	1	44	40	44	41	52	36	47	52	51	-	7	280	0.0	-7	TRUE
Jan-25-22 07:00	1	46	43	46	44	55	40	50	55	53	-	7	280	0.0	-7	FALSE
Jan-25-22 08:00	1	53	68	66	52	56	52	54	59	55	-	5	280	0.0	-7	FALSE
Jan-25-22 09:00	1	44	44	49	46	53	44	51	54	53	-	5	290	0.0	-7	FALSE
Jan-25-22 10:00	1	51	66	64	46	51	46	49	56	52	56	11	290	0.0	-5	FALSE
Jan-25-22 11:00	1	51	44	47	43	50	43	52	51	48	56	10	310	0.0	-6	FALSE
Jan-25-22 12:00	1	53	66	65	48	51	47	54	57	53	57	13	300	0.0	-6	FALSE
Jan-25-22 13:00	1	51	43	46	42	57	41	50	52	52	57	10	300	0.0	-6	FALSE
Jan-25-22 14:00	1	59	59	58	46	55	51	70	59	55	58	15	300	0.0	-6	FALSE
Jan-25-22 15:00	1	58	65	62	48	54	45	55	55	53	57	11	310	0.0	-7	FALSE
Jan-25-22 16:00	1	51	51	49	47	56	47	52	57	53	58	8	290	0.0	-8	FALSE
Jan-25-22 17:00	1	54	67	65	46	55	50	53	60	54	58	7	300	0.0	-9	FALSE
Jan-25-22 18:00	1	49	64	64	46	55	44	51	55	54	57	6	300	0.0	-10	FALSE
Jan-25-22 19:00	1	50	64	63	46	55	45	53	58	56	57	2	220	0.0	-13	FALSE
Jan-25-22 20:00	1	53	68	67	47	55	49	56	60	59	58	5	280	0.0	-12	FALSE
Jan-25-22 21:00	1	51	69	69	46	53	48	60	60	62	57	4	290	0.0	-11	FALSE
Jan-25-22 22:00	1	48	63	62	38	49	43	49	53	52	51	3	300	0.0	-12	FALSE
Jan-25-22 23:00	1	51	66	66	54	47	54	53	62	57	53	0	0	0.0	-12	FALSE
Jan-26-22 00:00	1	45	64	64	50	-	46	45	51	50	46	3	300	0.0	-12	FALSE
Jan-26-22 01:00	1	42	43	46	43	-	37	42	45	46	44	2	290	0.0	-12	FALSE
Jan-26-22 02:00	1	47	65	65	53	-	50	51	57	54	52	2	350	0.0	-13	FALSE
Jan-26-22 03:00	1	51	67	68	42	-	43	54	56	56	53	2	310	0.0	-14	FALSE
Jan-26-22 04:00	1	50	69	68	44	-	45	55	57	58	52	1	0	0.0	-14	FALSE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

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 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Jan-26-22 05:00	1	48	66	66	46	-	46	57	59	59	59	2	100	0.0	-15	FALSE
Jan-26-22 06:00	1	55	70	70	48	-	48	56	59	59	58	2	340	0.0	-14	FALSE
Jan-26-22 07:00	1	48	43	46	45	56	45	53	59	55	59	1	0	0.0	-15	FALSE
Jan-26-22 08:00	1	53	45	44	45	52	44	50	58	53	57	1	360	0.2	-14	FALSE
Jan-26-22 09:00	1	52	42	43	42	48	42	49	53	52	54	3	10	0.0	-12	FALSE
Jan-26-22 10:00	1	41	40	43	42	51	42	46	51	47	53	2	250	0.0	-11	FALSE
Jan-26-22 11:00	1	51	65	66	42	50	45	50	55	52	53	6	130	0.0	-12	FALSE
Jan-26-22 12:00	1	45	50	46	43	50	45	50	54	50	53	3	150	0.0	-9	FALSE
Jan-26-22 13:00	1	52	64	66	43	49	40	48	54	49	53	4	200	0.0	-7	FALSE
Jan-26-22 14:00	1	49	64	63	44	52	43	50	56	50	53	3	240	0.0	-6	FALSE
Jan-26-22 15:00	1	69	42	44	43	54	43	51	56	53	55	6	190	0.0	-6	FALSE
Jan-26-22 16:00	1	48	63	65	50	54	52	56	60	54	59	8	220	0.0	-7	FALSE
Jan-26-22 17:00	1	47	46	45	45	55	45	51	56	56	57	7	250	0.0	-8	FALSE
Jan-26-22 18:00	1	51	69	69	52	55	51	52	58	55	56	3	240	0.0	-10	FALSE
Jan-26-22 19:00	1	50	66	66	52	53	49	53	58	55	56	4	260	0.0	-11	FALSE
Jan-26-22 20:00	1	48	64	65	49	51	47	46	55	50	55	5	260	0.0	-11	FALSE
Jan-26-22 21:00	1	46	60	62	44	51	42	45	52	49	53	6	270	0.0	-12	FALSE
Jan-26-22 22:00	1	41	39	35	36	50	33	44	49	50	51	3	280	0.0	-12	FALSE
Jan-26-22 23:00	1	36	38	32	50	46	33	43	47	48	49	7	270	0.0	-11	FALSE
Jan-27-22 00:00	1	34	37	64	48	48	53	49	60	52	49	5	280	0.0	-11	FALSE
Jan-27-22 01:00	1	48	66	63	46	42	30	38	41	42	43	2	250	0.0	-11	FALSE
Jan-27-22 02:00	1	32	29	28	36	39	30	34	37	39	41	8	220	0.0	-8	FALSE
Jan-27-22 03:00	1	42	49	44	38	41	31	35	39	39	45	8	220	0.0	-9	FALSE
Jan-27-22 04:00	1	47	66	68	55	43	51	51	59	55	48	7	310	0.0	-11	FALSE
Jan-27-22 05:00	1	44	37	37	37	50	36	44	48	50	51	5	260	0.0	-11	FALSE
Jan-27-22 06:00	1	44	42	43	42	53	39	48	52	53	54	5	250	0.0	-10	FALSE
Jan-27-22 07:00	1	49	47	47	48	56	43	52	58	56	57	2	137	0.0	-12	FALSE
Jan-27-22 08:00	1	51	66	67	54	54	52	54	60	57	57	5	132	0.0	-9	FALSE
Jan-27-22 09:00	1	48	48	47	51	53	46	49	54	53	55	8	127	0.0	-8	FALSE
Jan-27-22 10:00	1	52	67	70	58	53	55	55	64	54	58	7	141	0.0	-6	FALSE
Jan-27-22 11:00	1	57	63	65	61	53	52	50	60	54	57	9	141	0.0	-5	FALSE
Jan-27-22 12:00	1	47	51	50	51	53	49	72	62	53	57	8	143	0.0	-5	FALSE
Jan-27-22 13:00	1	51	66	68	57	69	53	72	62	54	56	8	143	0.0	-4	FALSE
Jan-27-22 14:00	1	55	69	72	60	53	56	57	64	55	57	9	143	0.0	-4	FALSE
Jan-27-22 15:00	1	58	64	66	52	54	50	61	60	55	58	6	149	0.0	-4	FALSE
Jan-27-22 16:00	1	50	60	62	51	55	48	57	58	56	59	6	154	0.0	-4	FALSE
Jan-27-22 17:00	1	49	65	68	54	55	52	54	61	54	59	6	163	0.0	-4	FALSE
Jan-27-22 18:00	1	44	44	51	40	53	41	48	54	52	56	4	163	0.0	-5	FALSE
Jan-27-22 19:00	1	48	61	63	50	52	48	47	55	51	56	4	161	0.0	-5	FALSE
Jan-27-22 20:00	1	47	63	67	53	51	49	45	55	50	54	4	159	0.0	-5	FALSE
Jan-27-22 21:00	1	41	41	41	38	52	40	45	47	51	55	5	161	0.0	-5	FALSE
Jan-27-22 22:00	1	41	40	42	38	49	40	44	47	49	53	4	169	0.0	-5	FALSE
Jan-27-22 23:00	1	48	68	67	51	46	50	45	55	46	48	2	205	0.0	-5	FALSE
Jan-28-22 00:00	1	40	33	34	37	45	39	39	41	46	50	5	225	0.0	-4	FALSE
Jan-28-22 01:00	1	35	33	42	40	42	39	38	43	42	48	11	245	0.0	-5	FALSE
Jan-28-22 02:00	1	52	65	66	42	48	46	54	56	54	54	16	258	0.0	-6	FALSE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Jan-28-22 03:00	1	50	66	63	39	49	44	53	53	52	53	18	281	0.0	-8	FALSE
Jan-28-22 04:00	1	52	69	69	40	54	43	57	51	57	52	16	284	0.0	-10	FALSE
Jan-28-22 05:00	1	42	37	44	41	46	37	44	48	46	51	15	280	0.0	-12	FALSE
Jan-28-22 06:00	1	44	39	46	43	49	40	45	51	47	54	15	286	0.0	-14	FALSE
Jan-28-22 07:00	1	53	66	67	47	53	45	58	58	57	59	16	283	0.0	-16	FALSE
Jan-28-22 08:00	1	53	68	67	48	55	45	58	57	57	58	18	274	0.0	-17	FALSE
Jan-28-22 09:00	1	55	68	68	46	53	46	59	59	58	60	18	282	0.0	-17	FALSE
Jan-28-22 10:00	1	55	69	69	45	53	44	57	55	56	56	15	285	0.0	-16	FALSE
Jan-28-22 11:00	1	47	45	47	45	52	43	54	54	55	60	14	285	0.0	-15	FALSE
Jan-28-22 12:00	1	51	63	67	45	51	42	67	57	54	54	17	284	0.0	-14	FALSE
Jan-28-22 13:00	1	50	67	65	46	52	43	70	54	55	54	17	285	0.0	-14	FALSE
Jan-28-22 14:00	1	51	67	67	49	54	49	62	58	55	56	16	286	0.0	-14	FALSE
Jan-28-22 15:00	1	44	43	47	46	52	41	65	56	50	55	16	283	0.0	-14	FALSE
Jan-28-22 16:00	1	53	70	69	46	54	42	61	59	57	57	13	283	0.0	-15	FALSE
Jan-28-22 17:00	1	47	60	60	48	55	43	54	58	54	58	6	280	0.0	-17	FALSE
Jan-28-22 18:00	1	50	65	64	46	52	42	48	55	50	56	6	259	0.0	-18	FALSE
Jan-28-22 19:00	1	44	46	56	44	51	43	54	55	55	56	6	254	0.0	-18	FALSE
Jan-28-22 20:00	1	53	70	70	45	53	44	57	56	58	57	6	263	0.0	-19	FALSE
Jan-28-22 21:00	1	52	64	64	43	50	40	48	52	50	55	5	249	0.0	-19	FALSE
Jan-28-22 22:00	1	47	39	39	39	47	34	41	46	46	53	5	251	0.0	-19	FALSE
Jan-28-22 23:00	1	44	38	37	38	48	35	42	46	45	52	4	241	0.0	-19	FALSE
Jan-29-22 00:00	1	56	70	70	44	50	46	56	58	56	57	5	247	0.0	-19	FALSE
Jan-29-22 01:00	1	48	65	65	46	49	42	55	52	56	51	6	260	0.0	-20	TRUE
Jan-29-22 02:00	1	32	33	31	31	43	32	35	42	42	49	6	258	0.0	-21	TRUE
Jan-29-22 03:00	1	32	32	32	31	39	32	34	38	37	44	8	268	0.0	-21	TRUE
Jan-29-22 04:00	1	33	32	32	31	38	30	35	42	37	43	8	257	0.0	-21	TRUE
Jan-29-22 05:00	1	37	33	32	33	44	30	38	42	43	50	6	247	0.0	-21	TRUE
Jan-29-22 06:00	1	35	35	34	38	47	34	42	48	45	52	4	239	0.0	-22	TRUE
Jan-31-22 07:00	2	50	69	70	57	53	53	52	59	52	56	1	135	0.0	-8	FALSE
Jan-31-22 08:00	2	48	46	47	47	54	45	51	57	52	58	2	148	0.0	-7	FALSE
Jan-31-22 09:00	2	54	44	46	45	52	45	50	54	51	56	2	175	0.0	-5	FALSE
Jan-31-22 10:00	2	50	64	66	50	51	51	52	59	55	54	4	145	0.0	-3	FALSE
Jan-31-22 11:00	2	46	59	64	49	52	46	49	52	51	55	4	142	0.0	-2	FALSE
Jan-31-22 12:00	2	42	41	43	39	51	42	48	53	52	53	4	141	0.0	-1	FALSE
Jan-31-22 13:00	2	51	68	69	48	51	47	65	58	51	55	4	132	0.0	-1	FALSE
Jan-31-22 14:00	2	56	64	65	48	54	49	62	58	55	56	5	123	0.0	-1	FALSE
Jan-31-22 15:00	2	67	68	70	51	55	48	54	51	55	57	6	93	0.0	-1	FALSE
Jan-31-22 16:00	2	61	46	44	45	55	44	53	52	55	57	6	81	0.0	-2	FALSE
Jan-31-22 17:00	2	48	47	46	48	55	48	55	53	56	58	3	63	0.0	-5	FALSE
Jan-31-22 18:00	2	51	65	67	49	54	43	53	51	55	57	1	56	0.0	-7	FALSE
Jan-31-22 19:00	2	53	67	70	53	57	49	61	55	63	59	1	187	0.0	-11	FALSE
Jan-31-22 20:00	2	52	64	68	51	56	48	61	56	61	59	1	214	0.0	-14	FALSE
Jan-31-22 21:00	2	45	42	42	45	55	45	55	50	56	57	1	200	0.0	-15	FALSE
Jan-31-22 22:00	2	44	45	39	41	52	38	49	45	51	54	1	222	0.0	-16	FALSE
Jan-31-22 23:00	2	44	42	37	38	49	35	46	43	48	52	1	231	0.0	-17	FALSE
Feb-01-22 00:00	2	38	39	64	46	50	47	57	55	57	59	1	220	0.0	-17	FALSE

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Feb-01-22 01:00	2	56	68	69	48	46	48	60	57	60	54	1	96	0.0	-17	FALSE
Feb-01-22 02:00	2	37	60	67	51	53	51	60	57	60	59	1	211	0.0	-18	FALSE
Feb-01-22 03:00	2	53	64	65	46	45	33	41	38	45	48	1	231	0.0	-18	FALSE
Feb-01-22 04:00	2	56	68	71	56	58	54	64	59	64	57	1	195	0.0	-17	FALSE
Feb-01-22 05:00	2	43	41	43	43	51	41	48	44	52	54	1	155	0.0	-17	FALSE
Feb-01-22 06:00	2	46	45	49	48	54	45	52	50	55	57	1	258	0.0	-16	FALSE
Feb-01-22 07:00	2	54	63	65	54	57	55	61	61	64	62	1	109	0.0	-16	FALSE
Feb-01-22 08:00	2	51	50	50	53	57	48	56	54	57	60	1	222	0.0	-13	FALSE
Feb-01-22 09:00	2	49	50	50	51	55	51	53	52	55	56	2	252	0.0	-7	FALSE
Feb-01-22 10:00	2	54	67	71	55	54	51	56	55	58	57	9	90	0.0	-2	FALSE
Feb-01-22 11:00	2	60	64	69	52	53	50	56	54	56	58	10	86	0.0	-1	FALSE
Feb-01-22 12:00	2	56	66	70	51	53	48	55	52	56	58	9	80	0.0	0	FALSE
Feb-01-22 13:00	2	53	66	70	54	53	49	53	54	55	56	9	92	0.0	3	FALSE
Feb-01-22 14:00	2	49	47	62	49	53	50	54	53	55	57	9	91	0.0	3	FALSE
Feb-01-22 15:00	2	71	63	66	51	55	49	56	53	56	57	7	76	0.0	2	FALSE
Feb-01-22 16:00	2	53	65	68	52	56	50	56	54	57	57	4	67	0.0	1	FALSE
Feb-01-22 17:00	2	51	62	66	51	56	50	57	54	57	58	1	83	0.0	-1	FALSE
Feb-01-22 18:00	2	50	46	44	47	55	47	52	50	55	58	1	194	0.0	-3	FALSE
Feb-01-22 19:00	2	53	65	69	52	55	52	59	59	60	56	2	120	0.0	-3	FALSE
Feb-01-22 20:00	2	48	60	65	50	52	48	51	50	54	54	4	171	0.0	1	FALSE
Feb-01-22 21:00	2	52	65	69	56	53	52	51	59	54	56	9	137	0.0	5	FALSE
Feb-01-22 22:00	2	45	44	42	40	49	47	46	57	51	57	7	138	0.1	5	TRUE
Feb-01-22 23:00	2	47	61	66	53	47	50	47	53	49	53	5	142	0.0	5	FALSE
Feb-02-22 00:00	2	50	64	69	54	44	53	49	57	48	49	5	142	0.0	5	FALSE
Feb-02-22 01:00	2	52	67	72	58	44	56	52	59	53	51	6	136	0.0	5	FALSE
Feb-02-22 02:00	2	47	58	28	32	39	33	36	34	41	42	3	152	0.0	4	FALSE
Feb-02-22 03:00	2	48	60	65	50	42	47	43	48	44	46	4	135	0.6	4	TRUE
Feb-02-22 04:00	2	51	65	69	55	45	53	49	54	49	50	4	137	0.0	4	FALSE
Feb-02-22 05:00	2	43	37	37	39	50	38	45	40	51	53	5	120	0.8	3	TRUE
Feb-02-22 06:00	2	44	42	45	43	54	42	48	44	53	56	4	116	0.0	3	FALSE
Feb-02-22 07:00	2	49	63	67	54	55	51	53	53	55	59	3	138	0.0	4	FALSE
Feb-02-22 08:00	2	50	48	46	45	55	43	51	47	55	58	2	137	0.0	3	FALSE
Feb-02-22 09:00	2	51	65	69	55	53	53	52	55	56	57	2	132	0.0	4	FALSE
Feb-02-22 10:00	2	50	64	68	53	53	53	54	57	56	57	3	122	0.0	4	FALSE
Feb-02-22 11:00	2	48	46	47	47	54	51	51	47	55	57	4	127	4.9	3	TRUE
Feb-02-22 12:00	2	52	66	70	56	55	55	54	55	57	58	2	174	3.3	2	TRUE
Feb-02-22 13:00	2	57	66	69	55	55	54	49	50	54	58	2	217	0.4	3	TRUE
Feb-02-22 14:00	2	54	65	71	56	56	56	54	54	58	58	3	144	0.9	3	TRUE
Feb-02-22 15:00	2	54	63	67	53	57	56	55	54	59	59	2	142	4.8	2	TRUE
Feb-02-22 16:00	2	51	62	67	54	56	58	54	59	58	60	2	160	4.6	2	TRUE
Feb-02-22 17:00	2	53	62	61	49	56	52	53	55	56	60	2	265	1.8	1	TRUE
Feb-02-22 18:00	2	51	61	64	51	52	48	51	50	52	56	11	271	0.0	0	FALSE
Feb-02-22 19:00	2	49	45	45	48	49	44	46	47	47	52	20	274	0.0	-1	FALSE
Feb-02-22 20:00	2	51	63	68	48	51	47	55	51	54	56	19	275	0.0	-2	FALSE
Feb-02-22 21:00	2	52	58	59	45	47	41	47	45	46	50	19	272	0.0	-2	FALSE
Feb-02-22 22:00	2	43	40	40	42	44	40	42	42	40	49	17	270	0.0	-3	FALSE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

means data not collected due to equipment battery failure
 means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Feb-02-22 23:00	2	39	38	38	41	40	39	39	41	38	46	14	258	0.0	-3	FALSE
Feb-03-22 00:00	2	50	62	65	24	45	45	52	48	51	51	14	256	0.0	-3	FALSE
Feb-03-22 01:00	2	52	65	68	24	49	47	54	49	54	51	15	255	0.0	-3	FALSE
Feb-03-22 02:00	2	39	36	34	20	40	34	38	36	42	47	14	257	0.0	-4	FALSE
Feb-03-22 03:00	2	50	66	69	37	51	47	54	48	54	50	12	255	0.0	-4	FALSE
Feb-03-22 04:00	2	49	62	65	20	48	43	53	48	53	53	15	275	0.0	-4	FALSE
Feb-03-22 05:00	2	42	42	41	22	47	42	44	46	46	54	18	274	0.0	-4	FALSE
Feb-03-22 06:00	2	54	44	48	23	50	45	45	48	48	55	19	273	0.0	-4	FALSE
Feb-03-22 07:00	2	50	62	64	27	53	50	55	54	55	59	23	276	0.0	-5	TRUE
Feb-03-22 08:00	2	53	49	56	29	52	47	50	50	50	57	21	284	0.0	-5	TRUE
Feb-03-22 09:00	2	56	64	66	40	55	51	55	54	55	57	22	281	0.0	-6	TRUE
Feb-03-22 10:00	2	52	62	65	36	53	51	59	54	54	57	22	277	0.0	-6	TRUE
Feb-03-22 11:00	2	54	65	66	27	53	57	61	55	53	54	19	287	0.0	-7	FALSE
Feb-03-22 12:00	2	51	62	64	30	51	52	65	50	54	55	17	286	0.0	-7	FALSE
Feb-03-22 13:00	2	61	63	64	28	52	49	66	49	55	54	19	287	0.0	-8	FALSE
Feb-03-22 14:00	2	52	60	63	29	50	46	64	49	52	55	19	291	0.0	-8	FALSE
Feb-03-22 15:00	2	48	48	50	30	50	52	57	53	51	55	18	291	0.0	-8	FALSE
Feb-03-22 16:00	2	55	68	68	32	54	50	59	51	59	56	21	291	0.0	-9	TRUE
Feb-03-22 17:00	2	51	60	61	29	51	46	51	50	51	55	20	290	0.0	-10	FALSE
Feb-03-22 18:00	2	48	48	47	28	47	45	46	47	46	50	17	288	0.0	-10	FALSE
Feb-03-22 19:00	2	50	54	55	26	46	43	48	45	47	48	15	286	0.0	-10	FALSE
Feb-03-22 20:00	2	48	48	49	28	49	46	49	49	47	51	18	286	0.0	-10	FALSE
Feb-03-22 21:00	2	45	44	45	24	49	43	46	46	43	51	21	291	0.0	-10	TRUE
Feb-03-22 22:00	2	51	65	67	25	49	43	52	47	51	51	19	292	0.0	-10	FALSE
Feb-03-22 23:00	2	53	66	67	27	51	45	56	50	56	54	18	291	0.0	-10	FALSE
Feb-04-22 00:00	2	38	39	44	24	46	41	44	44	40	49	19	290	0.0	-11	FALSE
Feb-04-22 01:00	2	42	42	42	21	46	43	44	45	40	49	19	288	0.0	-11	FALSE
Feb-04-22 02:00	2	50	63	66	23	52	44	56	49	55	56	21	287	0.0	-11	TRUE
Feb-04-22 03:00	2	38	39	43	21	46	41	45	44	39	47	20	289	0.0	-11	FALSE
Feb-04-22 04:00	2	35	40	49	22	42	39	42	41	38	45	17	290	0.0	-12	FALSE
Feb-04-22 05:00	2	41	42	47	25	43	40	43	42	41	46	17	291	0.0	-12	FALSE
Feb-04-22 06:00	2	41	41	44	28	44	41	42	40	43	47	17	287	0.0	-12	FALSE
Feb-04-22 07:00	2	44	44	47	29	46	40	44	41	46	50	16	282	0.0	-13	FALSE
Feb-04-22 08:00	2	55	47	48	28	49	41	46	44	48	53	18	279	0.0	-13	FALSE
Feb-04-22 09:00	2	50	63	66	30	52	44	54	48	54	57	17	273	0.0	-13	FALSE
Feb-04-22 10:00	2	49	57	61	33	50	42	52	45	54	53	16	274	0.0	-13	FALSE
Feb-04-22 11:00	2	60	65	67	28	52	48	56	51	55	56	14	280	0.0	-12	FALSE
Feb-04-22 12:00	2	50	60	63	26	48	40	52	45	52	53	11	275	0.0	-12	FALSE
Feb-04-22 13:00	2	51	66	68	25	51	46	56	49	53	54	7	301	0.0	-10	FALSE
Feb-04-22 14:00	2	43	39	41	27	50	38	48	41	49	53	5	313	0.0	-10	FALSE
Feb-04-22 15:00	2	50	65	67	31	53	44	54	48	55	56	5	307	0.0	-10	FALSE
Feb-04-22 16:00	2	44	46	46	29	54	42	50	46	51	57	3	306	0.0	-10	FALSE
Feb-04-22 17:00	2	50	66	68	32	56	43	54	48	55	58	2	290	0.0	-11	FALSE
Feb-04-22 18:00	2	50	63	66	31	55	43	55	48	56	56	5	300	0.0	-12	FALSE
Feb-04-22 19:00	2	51	66	69	32	55	44	55	47	57	57	4	285	0.0	-13	FALSE
Feb-04-22 20:00	2	49	62	65	31	52	44	54	50	57	58	3	239	0.0	-13	FALSE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

means data not collected due to equipment battery failure
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 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Feb-04-22 21:00	2	48	43	42	25	51	35	46	41	51	57	3	219	0.0	-14	FALSE
Feb-04-22 22:00	2	49	64	67	32	52	48	48	49	50	54	2	208	0.0	-14	FALSE
Feb-04-22 23:00	2	49	62	66	31	49	47	48	50	50	52	2	202	0.0	-14	FALSE
Feb-05-22 00:00	2	38	39	37	23	47	34	42	39	45	51	1	215	0.0	-16	FALSE
Feb-05-22 01:00	2	42	32	33	23	41	32	38	34	40	45	4	216	0.0	-14	FALSE
Feb-05-22 02:00	2	49	62	66	29	46	47	53	51	51	53	8	240	0.0	-13	FALSE
Feb-05-22 03:00	2	40	54	57	21	42	36	42	38	43	43	2	187	0.0	-13	FALSE
Feb-05-22 04:00	2	33	29	30	24	39	27	35	33	43	47	2	204	0.0	-13	FALSE
Feb-05-22 05:00	2	52	69	71	38	51	53	55	57	53	51	2	227	0.0	-14	FALSE
Feb-05-22 06:00	2	45	60	65	33	48	43	49	47	53	52	3	223	0.0	-15	FALSE
Feb-07-22 07:00	3	48	49	48	48	-	46	53	49	57	57	4	29	0.0	-3	FALSE
Feb-07-22 08:00	3	53	65	70	54	-	54	58	57	60	59	4	27	0.0	-3	FALSE
Feb-07-22 09:00	3	49	60	65	51	-	52	54	55	56	-	4	24	0.0	-1	FALSE
Feb-07-22 10:00	3	56	62	67	52	-	47	53	51	56	-	8	23	0.0	1	FALSE
Feb-07-22 11:00	3	57	46	65	50	-	51	52	55	55	-	13	21	0.0	2	FALSE
Feb-07-22 12:00	3	57	63	63	48	-	41	51	52	53	-	12	22	0.0	3	FALSE
Feb-07-22 13:00	3	47	59	67	52	52	51	49	58	53	-	6	146	0.0	3	FALSE
Feb-07-22 14:00	3	54	63	66	49	56	45	53	48	56	-	6	142	0.0	2	FALSE
Feb-07-22 15:00	3	64	64	72	58	54	57	65	59	56	-	5	142	0.0	2	FALSE
Feb-07-22 16:00	3	49	59	65	51	55	49	52	51	55	-	5	152	0.0	1	FALSE
Feb-07-22 17:00	3	45	51	56	45	54	45	53	48	54	-	3	166	0.0	0	FALSE
Feb-07-22 18:00	3	48	45	45	40	52	39	48	43	51	-	2	172	0.0	-1	FALSE
Feb-07-22 19:00	3	51	65	71	58	52	54	50	55	52	-	2	181	0.0	-1	FALSE
Feb-07-22 20:00	3	46	44	40	38	51	39	47	43	49	-	1	156	0.0	-3	FALSE
Feb-07-22 21:00	3	51	66	71	56	52	57	50	57	51	-	2	164	0.0	-2	FALSE
Feb-07-22 22:00	3	48	61	66	52	49	50	46	50	48	-	1	167	0.0	-4	FALSE
Feb-07-22 23:00	3	52	66	70	57	47	56	51	57	50	-	1	157	0.0	-4	FALSE
Feb-08-22 00:00	3	41	38	34	34	41	33	39	36	41	-	3	165	0.0	-2	FALSE
Feb-08-22 01:00	3	47	61	65	49	43	50	48	51	45	-	1	181	0.0	-3	FALSE
Feb-08-22 02:00	3	32	32	33	33	38	29	35	33	38	-	3	214	0.0	-2	FALSE
Feb-08-22 03:00	3	35	32	38	36	40	33	36	34	39	-	4	220	0.0	-2	FALSE
Feb-08-22 04:00	3	54	67	70	51	50	53	55	55	53	-	2	204	0.0	-3	FALSE
Feb-08-22 05:00	3	48	62	66	50	48	49	49	51	49	-	1	171	0.0	-3	FALSE
Feb-08-22 06:00	3	51	64	69	52	51	53	52	50	52	-	1	179	0.0	-3	FALSE
Feb-08-22 07:00	3	49	45	46	44	54	43	54	47	52	-	2	168	0.0	-3	FALSE
Feb-08-22 08:00	3	51	47	47	48	55	45	53	47	53	-	1	178	0.0	-3	FALSE
Feb-08-22 09:00	3	51	64	70	54	56	51	56	52	55	-	2	185	0.0	-1	FALSE
Feb-08-22 10:00	3	58	61	66	51	52	50	54	52	54	57	3	197	0.0	0	FALSE
Feb-08-22 11:00	3	51	64	71	57	52	53	53	59	54	57	3	196	0.0	1	FALSE
Feb-08-22 12:00	3	46	47	54	45	51	48	48	59	51	57	4	185	0.0	0	FALSE
Feb-08-22 13:00	3	52	44	49	44	54	42	47	44	51	56	3	217	0.0	-2	FALSE
Feb-08-22 14:00	3	49	58	64	50	81	49	50	53	53	58	5	160	0.0	-2	FALSE
Feb-08-22 15:00	3	53	61	68	69	54	52	50	56	54	59	5	167	0.0	-2	FALSE
Feb-08-22 16:00	3	57	66	71	56	54	52	51	54	52	58	4	167	0.0	-3	FALSE
Feb-08-22 17:00	3	54	67	72	58	55	55	51	56	54	58	3	160	0.0	-4	FALSE
Feb-08-22 18:00	3	51	44	42	39	53	43	52	46	54	56	4	150	0.0	-4	FALSE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Feb-08-22 19:00	3	53	58	63	50	54	49	52	51	55	56	4	146	0.0	-5	FALSE
Feb-08-22 20:00	3	54	67	71	54	52	55	52	56	54	54	2	128	0.0	-6	FALSE
Feb-08-22 21:00	3	54	43	45	43	53	44	53	47	53	55	1	117	0.0	-8	FALSE
Feb-08-22 22:00	3	53	65	69	52	52	50	55	54	54	53	1	129	0.0	-9	FALSE
Feb-08-22 23:00	3	45	50	66	50	53	52	57	57	57	56	1	202	0.0	-11	FALSE
Feb-09-22 00:00	3	50	64	65	46	45	38	42	49	45	46	1	123	0.0	-13	FALSE
Feb-09-22 01:00	3	51	64	68	49	54	53	59	59	60	57	1	190	0.0	-14	FALSE
Feb-09-22 02:00	3	34	35	33	34	40	35	40	41	40	43	1	106	0.0	-15	FALSE
Feb-09-22 03:00	3	52	66	70	53	53	54	58	61	59	56	1	171	0.0	-15	FALSE
Feb-09-22 04:00	3	43	61	67	52	53	52	57	56	58	56	1	211	0.0	-14	FALSE
Feb-09-22 05:00	3	51	59	42	43	52	42	48	45	51	54	1	199	0.0	-14	FALSE
Feb-09-22 06:00	3	49	46	47	48	54	45	50	48	53	56	1	205	0.0	-13	FALSE
Feb-09-22 07:00	3	57	65	68	58	59	58	61	60	62	62	1	232	0.0	-12	FALSE
Feb-09-22 08:00	3	58	66	69	58	58	56	63	63	65	61	1	235	0.0	-10	FALSE
Feb-09-22 09:00	3	58	63	67	55	56	52	58	58	59	58	2	273	0.0	-5	FALSE
Feb-09-22 10:00	3	52	60	66	52	53	53	50	60	54	55	7	149	0.0	5	FALSE
Feb-09-22 11:00	3	52	61	68	54	53	52	49	61	54	58	7	149	0.0	6	FALSE
Feb-09-22 12:00	3	52	62	67	54	53	50	50	65	54	60	8	150	0.0	6	FALSE
Feb-09-22 13:00	3	54	63	69	57	55	53	51	64	55	57	8	150	0.0	6	FALSE
Feb-09-22 14:00	3	56	62	69	55	55	52	51	62	56	60	8	154	0.0	6	FALSE
Feb-09-22 15:00	3	53	60	68	54	55	51	51	56	56	59	7	150	0.0	6	FALSE
Feb-09-22 16:00	3	50	50	49	47	56	50	51	57	56	59	6	144	0.0	5	FALSE
Feb-09-22 17:00	3	48	48	48	45	56	53	54	54	57	58	4	144	0.0	4	FALSE
Feb-09-22 18:00	3	48	46	45	44	54	45	49	49	54	56	3	148	0.0	4	FALSE
Feb-09-22 19:00	3	53	66	69	54	53	52	49	55	54	55	3	155	0.0	4	FALSE
Feb-09-22 20:00	3	52	65	71	57	52	55	48	58	53	55	4	156	0.0	3	FALSE
Feb-09-22 21:00	3	52	65	69	56	52	52	47	54	52	54	4	148	0.0	3	FALSE
Feb-09-22 22:00	3	51	61	67	53	50	51	47	57	50	54	5	157	0.0	3	FALSE
Feb-09-22 23:00	3	48	42	66	54	49	53	46	56	49	51	5	153	0.0	3	FALSE
Feb-10-22 00:00	3	46	61	64	45	44	36	38	46	44	47	5	155	0.0	2	FALSE
Feb-10-22 01:00	3	36	36	35	40	43	34	38	41	42	45	4	153	0.0	1	FALSE
Feb-10-22 02:00	3	47	62	68	56	42	53	45	55	45	46	4	152	0.0	1	FALSE
Feb-10-22 03:00	3	35	35	36	40	42	36	36	42	41	45	4	152	0.0	1	FALSE
Feb-10-22 04:00	3	46	61	67	53	44	51	44	54	46	47	4	151	0.0	1	FALSE
Feb-10-22 05:00	3	49	62	70	56	49	52	46	54	49	52	4	154	0.0	1	FALSE
Feb-10-22 06:00	3	45	42	45	40	54	41	47	49	53	56	5	156	0.0	1	FALSE
Feb-10-22 07:00	3	51	64	71	56	57	55	51	59	56	60	5	156	0.0	1	FALSE
Feb-10-22 08:00	3	50	49	52	51	58	49	53	52	58	61	5	157	0.0	1	FALSE
Feb-10-22 09:00	3	51	59	65	52	56	52	52	55	55	60	4	190	0.0	1	FALSE
Feb-10-22 10:00	3	60	62	67	53	55	57	52	59	55	61	4	191	0.0	1	FALSE
Feb-10-22 11:00	3	49	52	63	49	54	56	51	63	54	61	4	182	0.0	2	FALSE
Feb-10-22 12:00	3	53	66	72	58	54	59	53	62	55	61	4	204	0.0	2	FALSE
Feb-10-22 13:00	3	52	65	72	58	54	60	52	61	54	60	3	198	0.0	1	FALSE
Feb-10-22 14:00	3	55	63	68	54	54	55	51	58	54	60	4	192	0.0	1	FALSE
Feb-10-22 15:00	3	60	60	66	51	55	57	51	58	54	59	3	199	0.0	1	FALSE
Feb-10-22 16:00	3	51	63	71	57	55	59	51	58	54	59	3	178	0.0	0	FALSE

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Feb-10-22 17:00	3	46	49	56	43	55	51	50	53	54	59	2	176	0.0	0	FALSE
Feb-10-22 18:00	3	51	53	59	46	53	39	46	43	51	56	3	162	0.0	0	FALSE
Feb-10-22 19:00	3	48	44	41	38	51	44	45	46	50	54	4	151	0.0	-1	FALSE
Feb-10-22 20:00	3	46	42	38	36	51	38	45	42	51	53	4	147	0.0	-1	FALSE
Feb-10-22 21:00	3	53	68	73	59	49	55	48	55	49	52	3	150	0.0	-1	FALSE
Feb-10-22 22:00	3	54	67	73	59	48	56	46	56	48	51	3	158	0.0	-1	FALSE
Feb-10-22 23:00	3	38	39	37	35	46	35	40	39	45	48	4	148	0.0	-1	FALSE
Feb-11-22 00:00	3	35	39	44	38	45	41	40	54	46	47	5	141	0.0	-1	FALSE
Feb-11-22 01:00	3	47	60	67	51	43	51	45	61	45	50	5	162	0.0	-1	FALSE
Feb-11-22 02:00	3	47	62	67	53	42	51	44	53	44	45	4	150	0.0	-1	FALSE
Feb-11-22 03:00	3	50	64	70	55	44	53	48	56	47	48	6	135	0.0	-1	FALSE
Feb-11-22 04:00	3	46	60	65	50	45	47	46	51	48	49	6	130	0.0	-1	FALSE
Feb-11-22 05:00	3	43	39	36	40	49	38	43	40	49	50	7	119	0.0	-2	FALSE
Feb-11-22 06:00	3	50	63	68	52	53	51	54	54	55	57	7	112	0.0	-2	FALSE
Feb-11-22 07:00	3	52	65	70	54	55	52	53	56	56	57	7	121	0.0	-1	FALSE
Feb-11-22 08:00	3	49	50	48	49	56	49	53	49	56	58	10	111	0.0	0	FALSE
Feb-11-22 09:00	3	48	51	50	54	55	56	52	60	56	58	10	128	0.0	1	FALSE
Feb-11-22 10:00	3	52	62	67	59	55	59	53	64	58	59	10	136	0.0	2	FALSE
Feb-11-22 11:00	3	54	63	70	56	55	59	51	61	55	57	7	144	0.0	3	FALSE
Feb-11-22 12:00	3	52	62	68	59	56	58	53	67	57	60	9	146	0.0	3	FALSE
Feb-11-22 13:00	3	60	63	71	58	57	59	54	64	58	60	8	147	2.2	3	TRUE
Feb-11-22 14:00	3	54	63	69	54	58	57	55	60	60	61	7	152	3.8	2	TRUE
Feb-11-22 15:00	3	53	52	52	45	59	55	57	58	61	62	6	151	2.5	3	TRUE
Feb-11-22 16:00	3	53	60	68	54	59	58	55	60	61	62	6	151	1.5	2	TRUE
Feb-11-22 17:00	3	51	57	61	48	59	57	53	60	60	62	6	154	1.3	1	TRUE
Feb-11-22 18:00	3	51	50	54	44	57	46	51	57	58	61	6	156	0.4	1	TRUE
Feb-11-22 19:00	3	54	64	70	56	56	53	50	59	56	61	6	159	0.4	1	TRUE
Feb-11-22 20:00	3	53	64	72	61	54	55	49	59	55	59	5	159	0.0	1	FALSE
Feb-11-22 21:00	3	52	65	72	61	53	55	48	59	54	57	5	159	0.0	2	FALSE
Feb-11-22 22:00	3	46	43	42	47	53	41	65	47	56	57	5	156	0.0	2	FALSE
Feb-11-22 23:00	3	46	43	45	41	52	40	45	49	52	55	5	157	0.0	2	FALSE
Feb-12-22 00:00	3	45	40	42	39	49	39	44	48	50	54	5	157	0.0	2	FALSE
Feb-12-22 01:00	3	40	41	44	40	47	41	44	55	48	52	6	156	0.0	2	FALSE
Feb-12-22 02:00	3	41	48	67	53	48	51	47	58	49	52	6	156	0.0	2	FALSE
Feb-12-22 03:00	3	52	66	71	57	44	53	49	59	48	49	5	151	0.0	2	FALSE
Feb-12-22 04:00	3	48	61	57	41	44	38	40	51	45	48	5	151	0.4	2	TRUE
Feb-12-22 05:00	3	52	64	69	56	52	61	54	61	55	58	8	204	0.6	0	TRUE
Feb-12-22 06:00	3	53	64	68	53	50	58	47	59	49	57	6	214	0.0	-2	FALSE
Feb-14-22 07:00	4	52	66	70	45	56	47	55	54	57	60	5	249	0.0	-17	FALSE
Feb-14-22 08:00	4	55	68	71	45	54	45	55	51	56	59	11	259	0.0	-16	FALSE
Feb-14-22 09:00	4	50	63	67	45	52	44	51	49	57	54	12	270	0.0	-15	FALSE
Feb-14-22 10:00	4	55	70	73	45	51	46	54	51	55	53	10	274	0.0	-13	FALSE
Feb-14-22 11:00	4	49	63	68	41	50	42	52	53	53	55	6	300	0.0	-12	FALSE
Feb-14-22 12:00	4	46	42	45	43	52	44	54	48	53	54	4	276	0.0	-10	FALSE
Feb-14-22 13:00	4	59	44	48	42	-	44	51	-	51	54	10	241	0.0	-10	FALSE
Feb-14-22 14:00	4	56	66	70	48	51	49	51	53	-	55	9	235	0.0	-9	FALSE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

means data not collected due to equipment battery failure
 means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Feb-14-22 15:00	4	59	65	70	47	53	49	51	51	54	57	7	230	0.0	-10	FALSE
Feb-14-22 16:00	4	51	63	68	47	53	46	51	49	54	57	9	239	0.0	-11	FALSE
Feb-14-22 17:00	4	44	45	46	42	54	42	52	46	53	57	6	239	0.0	-11	FALSE
Feb-14-22 18:00	4	46	58	61	43	52	42	46	45	50	55	4	233	0.0	-12	FALSE
Feb-14-22 19:00	4	51	66	71	54	52	53	50	57	52	55	1	174	0.0	-14	FALSE
Feb-14-22 20:00	4	48	41	37	35	50	34	42	39	47	52	1	166	0.0	-14	FALSE
Feb-14-22 21:00	4	51	65	71	53	50	49	46	47	48	52	1	164	0.0	-12	FALSE
Feb-14-22 22:00	4	51	67	72	56	48	51	45	49	47	51	1	189	0.0	-12	FALSE
Feb-14-22 23:00	4	43	42	40	38	46	37	40	39	44	48	2	169	0.0	-12	FALSE
Feb-15-22 00:00	4	51	67	73	57	44	52	50	54	47	49	2	170	0.0	-13	FALSE
Feb-15-22 01:00	4	48	61	50	37	42	36	39	38	41	44	2	155	0.0	-14	FALSE
Feb-15-22 02:00	4	43	59	64	51	40	47	43	49	44	44	1	167	0.0	-14	FALSE
Feb-15-22 03:00	4	36	31	35	31	41	35	36	39	39	46	2	164	0.0	-13	FALSE
Feb-15-22 04:00	4	50	64	70	53	43	51	45	56	46	49	3	166	0.0	-12	FALSE
Feb-15-22 05:00	4	43	39	43	36	50	40	44	52	49	54	5	163	0.0	-11	FALSE
Feb-15-22 06:00	4	58	63	69	54	53	50	49	53	52	56	4	168	0.0	-10	FALSE
Feb-15-22 07:00	4	46	45	47	44	56	44	51	55	54	59	4	164	0.0	-10	FALSE
Feb-15-22 08:00	4	53	64	69	54	55	51	52	54	54	58	3	166	0.0	-9	FALSE
Feb-15-22 09:00	4	49	45	56	45	55	46	50	51	53	56	3	173	0.0	-6	FALSE
Feb-15-22 10:00	4	44	44	49	42	51	45	48	49	52	55	2	183	0.0	-3	FALSE
Feb-15-22 11:00	4	50	64	70	50	55	49	54	53	54	57	4	198	0.0	-3	FALSE
Feb-15-22 12:00	4	46	41	47	42	52	43	49	49	50	53	3	218	0.0	-3	FALSE
Feb-15-22 13:00	4	53	68	73	50	51	51	52	55	51	54	3	89	0.0	-3	FALSE
Feb-15-22 14:00	4	51	63	69	46	51	44	49	51	49	55	3	139	0.0	-3	FALSE
Feb-15-22 15:00	4	55	69	74	54	53	51	54	56	53	55	4	141	0.0	-3	FALSE
Feb-15-22 16:00	4	50	63	69	51	55	51	53	53	55	57	5	127	0.0	-4	FALSE
Feb-15-22 17:00	4	54	66	71	54	56	52	59	55	58	57	5	107	0.0	-5	FALSE
Feb-15-22 18:00	4	45	46	43	45	54	46	53	51	55	56	5	105	0.0	-6	FALSE
Feb-15-22 19:00	4	55	70	74	59	54	51	56	55	58	56	2	105	0.0	-7	FALSE
Feb-15-22 20:00	4	51	64	68	52	54	49	54	54	55	54	2	93	0.0	-7	FALSE
Feb-15-22 21:00	4	54	68	72	55	55	51	57	54	57	55	3	73	0.0	-7	FALSE
Feb-15-22 22:00	4	49	61	66	48	50	41	43	42	48	50	6	82	0.0	-6	FALSE
Feb-15-22 23:00	4	43	39	36	37	46	37	40	39	45	47	5	78	0.0	-6	FALSE
Feb-16-22 00:00	4	52	64	65	45	45	45	45	43	48	46	2	123	0.0	-7	FALSE
Feb-16-22 01:00	4	38	53	65	50	54	47	55	50	57	49	1	202	0.0	-9	FALSE
Feb-16-22 02:00	4	54	68	72	53	55	51	59	57	61	53	1	196	0.0	-9	FALSE
Feb-16-22 03:00	4	50	64	68	51	54	53	56	56	58	57	1	180	0.0	-9	FALSE
Feb-16-22 04:00	4	36	36	37	38	46	41	42	41	44	47	1	170	0.0	-9	FALSE
Feb-16-22 05:00	4	55	68	71	56	59	54	56	58	59	55	1	179	0.0	-9	FALSE
Feb-16-22 06:00	4	47	45	47	48	54	46	50	49	53	56	1	206	0.0	-9	FALSE
Feb-16-22 07:00	4	56	65	69	56	58	53	60	58	62	58	1	252	0.0	-8	FALSE
Feb-16-22 08:00	4	54	52	50	50	56	48	52	53	55	58	4	168	0.0	-1	FALSE
Feb-16-22 09:00	4	51	49	49	53	54	54	52	66	57	59	9	140	0.0	6	FALSE
Feb-16-22 10:00	4	53	64	70	59	54	55	53	65	57	58	9	141	0.0	7	FALSE
Feb-16-22 11:00	4	55	67	74	62	55	58	55	68	57	58	9	145	0.0	9	FALSE
Feb-16-22 12:00	4	54	63	68	65	56	56	52	68	58	60	12	146	0.0	10	FALSE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

means data not collected due to equipment battery failure
 means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Feb-16-22 13:00	4	54	66	71	65	57	58	54	70	58	61	12	145	0.0	10	FALSE
Feb-16-22 14:00	4	56	67	71	67	58	61	55	72	60	62	13	147	0.0	10	FALSE
Feb-16-22 15:00	4	71	64	69	66	58	59	54	68	58	60	11	148	0.0	9	FALSE
Feb-16-22 16:00	4	52	63	68	55	57	60	54	67	58	60	9	149	0.0	9	FALSE
Feb-16-22 17:00	4	50	56	53	49	57	61	53	65	57	60	8	147	0.0	9	FALSE
Feb-16-22 18:00	4	53	65	70	57	55	58	54	68	57	59	9	145	0.2	8	TRUE
Feb-16-22 19:00	4	55	65	72	59	55	57	53	69	57	59	9	149	0.1	8	TRUE
Feb-16-22 20:00	4	55	68	75	63	55	59	54	70	57	59	9	146	0.2	9	TRUE
Feb-16-22 21:00	4	51	58	53	55	55	52	52	67	57	58	8	150	0.9	8	TRUE
Feb-16-22 22:00	4	52	64	70	58	53	55	51	65	55	58	6	154	0.3	8	TRUE
Feb-16-22 23:00	4	46	46	45	47	52	48	49	64	53	55	6	156	1.2	7	TRUE
Feb-17-22 00:00	4	43	40	39	38	47	40	43	48	49	49	4	162	0.2	7	TRUE
Feb-17-22 01:00	4	51	65	68	55	47	52	48	58	49	49	5	198	1.0	7	TRUE
Feb-17-22 02:00	4	51	64	70	54	56	54	56	59	56	55	2	192	7.2	5	TRUE
Feb-17-22 03:00	4	55	67	69	57	54	57	56	60	56	54	1	184	20.8	4	TRUE
Feb-17-22 04:00	4	56	71	72	66	54	57	55	62	56	55	2	115	24.2	4	TRUE
Feb-17-22 05:00	4	56	68	70	63	56	55	54	57	57	57	3	154	25.4	4	TRUE
Feb-17-22 06:00	4	52	54	50	58	58	52	53	63	59	60	6	145	12.5	6	TRUE
Feb-17-22 07:00	4	57	71	74	68	60	59	57	63	62	61	5	149	6.2	7	TRUE
Feb-17-22 08:00	4	55	58	51	56	60	53	54	54	62	61	4	165	5.7	7	TRUE
Feb-17-22 09:00	4	53	66	68	61	57	56	52	56	59	59	2	143	1.1	6	TRUE
Feb-17-22 10:00	4	55	68	69	59	56	56	56	60	59	59	6	234	0.0	4	FALSE
Feb-17-22 11:00	4	55	68	69	56	54	56	56	56	58	59	14	275	0.0	2	FALSE
Feb-17-22 12:00	4	57	72	73	56	58	53	57	59	59	63	8	273	0.5	2	TRUE
Feb-17-22 13:00	4	49	54	48	54	55	49	50	55	58	62	6	279	0.0	1	FALSE
Feb-17-22 14:00	4	53	65	66	55	55	51	54	58	62	65	9	291	1.9	1	TRUE

Phase 1 - Round 1 - Hourly Collected Noise Levels and Weather Data

means data not collected due to equipment battery failure
 means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Incllement Weather (True/False)
Feb-17-22 15:00	4	55	68	70	58	57	55	56	58	65	65	15	287	5.4	1	TRUE
Feb-17-22 16:00	4	53	57	53	58	56	55	53	63	62	64	13	288	16.9	0	TRUE
Feb-17-22 17:00	4	53	67	67	56	57	55	56	73	65	56	19	277	16.6	-1	TRUE
Feb-17-22 18:00	4	55	70	71	45	55	49	55	52	63	15	19	270	0.0	-1	FALSE
Feb-17-22 19:00	4	43	49	43	16	48	42	43	17	41	16	17	270	0.0	-2	FALSE
Feb-17-22 20:00	4	52	66	67	16	51	46	53	16	21	16	16	274	0.0	-2	FALSE
Feb-17-22 21:00	4	41	18	45	16	50	43	43	17	21	17	21	267	0.4	-3	TRUE
Feb-17-22 22:00	4	43	18	44	16	54	48	44	18	21	17	24	264	0.2	-3	TRUE
Feb-17-22 23:00	4	45	18	47	16	60	50	48	17	21	16	30	266	0.2	-4	TRUE
Feb-18-22 00:00	4	51	18	65	16	58	52	53	17	21	15	28	264	0.6	-5	TRUE
Feb-18-22 01:00	4	49	18	66	16	52	49	50	18	21	15	22	256	2.5	-6	TRUE
Feb-18-22 02:00	4	52	17	67	15	52	48	47	16	21	14	22	255	0.0	-7	TRUE
Feb-18-22 03:00	4	42	17	42	15	51	47	42	17	21	13	22	254	0.0	-8	TRUE
Feb-18-22 04:00	4	43	17	42	15	47	48	42	16	21	13	17	248	0.0	-8	FALSE
Feb-18-22 05:00	4	52	17	69	15	55	51	50	17	21	14	18	248	0.0	-9	FALSE
Feb-18-22 06:00	4	42	17	39	15	49	41	39	17	22	14	14	244	0.0	-9	FALSE
Feb-18-22 07:00	4	55	17	69	15	49	52	49	17	22	15	6	224	0.0	-11	FALSE
Feb-18-22 08:00	4	45	17	43	15	49	46	45	17	21	15	12	242	0.0	-11	FALSE
Feb-18-22 09:00	4	50	17	65	15	49	46	50	16	21	15	12	242	0.0	-10	FALSE
Feb-18-22 10:00	4	50	17	45	16	52	42	46	16	21	14	14	244	0.0	-9	FALSE
Feb-18-22 11:00	4	47	17	65	15	54	48	50	15	21	14	8	233	0.0	-7	FALSE
Feb-18-22 12:00	4	43	17	66	16	53	50	48	16	21	16	7	225	0.0	-6	FALSE
Feb-18-22 13:00	4	48	17	50	15	53	48	46	16	21	16	4	186	0.0	-5	FALSE
Feb-18-22 14:00	4	47	17	62	15	55	49	54	16	21	16	4	217	0.0	-5	FALSE
Feb-18-22 15:00	4	48	19	68	16	54	52	51	16	21	15	3	204	0.0	-5	FALSE
Feb-18-22 16:00	4	47	18	57	16	55	49	50	16	21	16	5	164	0.0	-6	FALSE
Feb-18-22 17:00	4	60	17	59	15	56	42	48	17	21	14	5	154	0.0	-7	FALSE
Feb-18-22 18:00	4	59	17	68	15	55	46	48	17	21	14	5	143	0.0	-9	FALSE
Feb-18-22 19:00	4	49	17	58	15	55	42	49	17	22	15	6	136	0.0	-9	FALSE
Feb-18-22 20:00	4	49	17	67	15	54	50	48	17	21	14	7	135	0.0	-8	FALSE
Feb-18-22 21:00	4	51	17	61	15	54	54	49	23	21	13	9	135	0.0	-7	FALSE
Feb-18-22 22:00	4	53	18	63	15	54	57	49	30	21	26	10	138	0.0	-6	FALSE
Feb-18-22 23:00	4	52	18	63	16	52	61	52	35	21	17	10	144	0.0	-6	FALSE
Feb-19-22 00:00	4	52	18	70	16	53	58	52	36	21	16	11	148	0.0	-5	FALSE
Feb-19-22 01:00	4	48	18	64	16	50	55	51	24	21	15	10	151	0.0	-5	FALSE
Feb-19-22 02:00	4	47	18	64	16	48	53	50	24	21	16	9	152	0.0	-4	FALSE
Feb-19-22 03:00	4	46	18	62	16	47	52	50	23	21	17	9	153	0.0	-3	FALSE
Feb-19-22 04:00	4	44	18	56	16	49	53	49	24	21	16	9	155	0.0	-3	FALSE
Feb-19-22 05:00	4	48	18	60	16	50	61	56	26	21	17	7	186	0.0	-4	FALSE
Feb-19-22 06:00	4	51	18	61	16	56	67	57	28	21	18	8	212	0.0	-7	FALSE

NOTE:

Incllement weather is considered to have occurred under any of the following conditions:

Wind speed greater than 20 km/hour;

Temperature outside of the operating range defined by the manufacturer of the sound level meter (-20°C to +50°C);

Precipitation has occurred

Phase 1 - Round 1 - Weekly Monitoring Summaries

Combined Total Noise Exposure, Ldn - Week 1, January 24 to 28, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	52	57	57	55	59	60	0	0
M02	66	72	67	70	73	68	0	3
M03	65	72	68	70	73	77	0	0
M04	51	55	54	55	49	59	0	0
M05	54	55	55	56	56	60	0	0
M06	51	54	52	52	49	56	0	0
M07	51	62	53	61	62	61	1	2
M08 ¹	59	64	60	61	61	57	0	5
M09	54	62	57	58	60	60	0	1
M10	- ²	61	57	59	61	62	0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. M08 was located approximately 135 m closer to the CN rail line and 10 m closer to Lower Baseline Road during this week of monitoring

2. Ldn could not be calculated due to insufficient data collected as a result of equipment battery failure

Combined Total Noise Exposure, Ldn - Week 2, January 31 to February 4, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	59	60	56	54	54	60	0	0
M02	69	69	67	64	68	68	0	2
M03	72	74	70	66	71	77	0	0
M04	56	59	49 [*]	32 [*]	37 [*]	59	0	0
M05	59	56	55	53	54	60	0	0
M06	54	57	51	51	52	56	0	1
M07	64	57	57	60	56	61	1	1
M08 ¹	61	61	54	52	56	57	1	2
M09	64	59	57	55	57	60	0	1
M10	62	59	59	56	58	62	0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. M08 was moved to the corresponding TDR monitoring location on Mon-Jan-31-22 between 14:00 and 15:00

2. Ldn is considered not representative since the sound level data collected between Wed-Feb-2 00:00 and Sat-Feb-5 06:00 was likely affected by ice accumulation on the sound level meter

Phase 1 - Round 1 - Weekly Monitoring Summaries

Combined Total Noise Exposure, Ldn - Week 3, February 7 to February 11, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	57	56	55	55	56	60	0	0
M02	68	68	66	67	67	68	0	0
M03	73	72	72	72	72	77	0	0
M04	57	56	59	58	59	59	0	0
M05	55	58	56	56	58	60	0	0
M06	57	56	56	57	61	56	0	3
M07	57	61	55	54	57	61	0	0
M08	58	62	61	62	64	57	0	5
M09	56	62	58	56	59	60	0	1
M10	-	61	59	60	62	62	0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. Ldn could not be calculated due to insufficient data collected as a result of equipment battery failure

Combined Total Noise Exposure, Ldn - Week 4, February 14 to February 18, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	57	57	-	56	56	60	0	0
M02	68	70	-	-	-	68	0	1
M03	74	74	-	71	70	77	0	0
M04	57	57	-	-	-	59	0	0
M05	55	60	-	58	58	60	0	0
M06	54	55	-	55	66	56	0	1
M07	53	60	-	55	59	61	0	0
M08	57	60	-	-	-	57	0	1
M09	55	62	-	-	-	60	0	1
M10	58	60	-	-	-	62	0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. "-" means Ldn could not be calculated due to inclement weather and/or suspected ice accumulation on the sound level meter between Thu-Feb-17-22 18:00 to Sat-Feb-19-22 07:00

Phase 1 - Round 1 - Weekly Monitoring Summaries

Change in Percent Highly Annoyed, %HA - Week 1, January 24 to 28, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	5.3	-2.5	-0.1	-0.2	-1.2	1.2	6.5	0	0
M02	17.4	-2.5	12.1	-0.4	6.7	13.6		0	3
M03	44.1	-29.4	-14.5	-25.4	-19.9	-13		0	0
M04	4.7	-2.3	-0.6	-0.9	-0.8	-2.8		0	0
M05	5.3	-1.5	-1.2	-1.2	-0.7	-0.7		0	0
M06	2.5	0.1	1.2	0.4	0.4	-0.5		0	0
M07	6.8	-4.3	2.4	-3.6	1.9	3.2		0	0
M08 ¹	3.2	3.6	8.8	4.8	5.1	5.7		0	1
M09	6.0	-2.2	4	-0.7	0	1.4		0	0
M10	7.7	- ²	0.9	-2.3	-0.8	1.5		0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. M08 was located approximately 135 m closer to the CN rail line and 10 m closer to Lower Baseline Road during this week of monitoring

2. Change %HA could not be calculated due to insufficient data collected as a result of equipment battery failure

Change in Percent Highly Annoyed, %HA - Week 2, January 31 to February 4, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	5.3	1.5	1.9	-0.9	-1.5	-1.6	6.5	0	0
M02	17.4	5	3.2	0	-4.9	1.6		0	0
M03	44.1	-15.4	-12.7	-19.3	-28.9	-17.9		0	0
M04	4.7	-0.1	1.7	-2.7 ²	-2.3 ²	-4.5 ²		0	0
M05	5.3	1.5	-0.7	-1.2	-1.9	-1.5		0	0
M06	2.5	1.4	2.6	0.1	-0.1	0.4		0	0
M07	6.8	6.1	-1.8	-1.6	1.1	-2.1		0	0
M08 ¹	3.2	5.1	4.6	0.5	-0.3	1.2		0	0
M09	6.0	6.5	0.2	-0.6	-1.9	-1		0	0
M10	7.7	2.4	-0.6	-1.1	-2.9	-1.9		0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. M08 was moved to the corresponding TDR monitoring location on Mon-Jan-31-22 between 14:00 and 15:00

2. Change in %HA is considered not representative since the sound level data collected between Wed-Feb-2 00:00 and Sat-Feb-5 06:00 was likely affected by ice accumulation on the sound level meter

Phase 1 - Round 1 - Weekly Monitoring Summaries

Change in Percent Highly Annoyed, %HA - Week 3, February 7 to February 11, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	5.3	-0.1	-0.7	-1.4	-1.2	-0.4	6.5	0	0
M02	17.4	2.6	1	-2.4	-0.8	0		0	
M03	44.1	-13.1	-15.3	-15.7	-14.3	-13.9		0	0
M04	4.7	0.8	0	1.7	1.1	2.4		0	0
M05	5.3	-1.2	0.9	-0.5	-0.8	0.4		0	0
M06	2.5	2.7	2.4	2.4	2.8	5.9		0	0
M07	6.8	-1.3	1.7	-2.8	-3.1	-1.6		0	0
M08	3.2	2.9	6.1	5.3	6.1	9		0	1
M09	6.0	-1.1	3.3	-0.3	-1.3	0.7		0	0
M10	7.7	-	1.1	-0.7	-0.3	1.9		0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. Change in %HA could not be calculated due to insufficient data collected as a result of equipment battery failure

Change in Percent Highly Annoyed, %HA - Week 4, February 14 to February 18, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	5.3	0.3	-0.1	-	-0.9	-0.5	6.5	0	0
M02	17.4	2.5	5.5	-	-	-		0	0
M03	44.1	-10.8	-10.4	-	-17.5	-20.1		0	0
M04	4.7	0.8	0.6	-	-	-		0	0
M05	5.3	-1.4	2.3	-	0.8	0.6		0	0
M06	2.5	1	1.8	-	1.8	13.2		0	1
M07	6.8	-3.5	1	-	-2.9	-0.3		0	0
M08	3.2	2.3	4.1	-	-	-		0	0
M09	6.0	-2	4	-	-	-		0	0
M10	7.7	-1.6	-0.3	-	-	-		0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily works reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. Change in %HA could not be calculated due to inclement weather and/or suspected ice accumulation on the sound level meter between Thu-Feb-17-22 18:00 to Sat-Feb-19-22 07:00

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Nov-21-22 07:00	1	50	50	51	48	59	48	53	49	59	58	7	208	0.0	-3	FALSE
Nov-21-22 08:00	1	51	58	64	51	59	51	54	50	59	59	9	212	0.0	-1	FALSE
Nov-21-22 09:00	1	56	49	51	51	59	50	52	49	57	57	12	213	0.0	2	FALSE
Nov-21-22 10:00	1	51	50	54	52	55	52	52	51	56	58	13	218	0.0	3	FALSE
Nov-21-22 11:00	1	55	59	66	55	59	57	54	56	57	58	17	225	0.0	5	FALSE
Nov-21-22 12:00	1	58	62	68	54	59	54	53	55	57	58	18	225	0.0	6	FALSE
Nov-21-22 13:00	1	60	62	67	55	59	56	62	57	64	64	18	230	0.0	7	FALSE
Nov-21-22 14:00	1	63	61	68	56	62	59	56	57	58	63	20	241	0.0	6	TRUE
Nov-21-22 15:00	1	54	63	70	55	59	61	54	56	57	63	16	250	0.0	5	FALSE
Nov-21-22 16:00	1	53	63	69	56	57	58	53	53	57	61	9	269	0.0	4	FALSE
Nov-21-22 17:00	1	50	51	53	51	56	49	50	45	56	59	9	257	0.0	4	FALSE
Nov-21-22 18:00	1	51	61	67	50	54	47	48	46	53	57	7	252	0.0	3	FALSE
Nov-21-22 19:00	1	50	48	48	41	53	40	46	40	52	56	7	248	0.0	3	FALSE
Nov-21-22 20:00	1	50	63	69	50	52	48	49	47	52	55	7	274	0.0	3	FALSE
Nov-21-22 21:00	1	50	65	69	49	51	49	49	47	51	54	8	306	0.0	3	FALSE
Nov-21-22 22:00	1	42	45	46	41	49	40	43	40	49	52	7	298	0.0	2	FALSE
Nov-21-22 23:00	1	45	58	63	46	50	44	45	42	48	54	4	254	0.0	2	FALSE
Nov-22-22 00:00	1	46	59	65	47	45	48	47	46	47	48	3	266	0.0	2	FALSE
Nov-22-22 01:00	1	34	36	43	31	42	32	37	33	42	45	2	283	0.0	1	FALSE
Nov-22-22 02:00	1	46	62	66	47	45	48	48	44	48	47	1	273	0.0	0	FALSE
Nov-22-22 03:00	1	47	62	67	49	45	49	49	43	49	47	1	306	0.0	-1	FALSE
Nov-22-22 04:00	1	52	64	67	51	49	51	53	52	54	53	1	271	0.0	-3	FALSE
Nov-22-22 05:00	1	49	64	70	52	54	53	58	55	57	56	1	188	0.0	-4	FALSE
Nov-22-22 06:00	1	52	60	60	46	55	47	51	50	55	57	1	104	0.0	-4	FALSE
Nov-22-22 07:00	1	53	60	64	52	58	52	56	55	60	60	1	219	0.0	-5	FALSE
Nov-22-22 08:00	1	53	64	69	54	58	56	56	51	58	59	2	279	0.0	-1	FALSE
Nov-22-22 09:00	1	50	64	68	50	54	51	54	52	55	57	3	256	0.0	1	FALSE
Nov-22-22 10:00	1	49	62	66	48	54	45	52	48	52	54	3	156	0.0	4	FALSE
Nov-22-22 11:00	1	52	42	47	45	53	53	55	55	57	55	4	140	0.0	5	FALSE
Nov-22-22 12:00	1	49	65	69	47	53	48	53	49	53	55	5	162	0.0	6	FALSE
Nov-22-22 13:00	1	48	48	52	47	55	49	54	50	55	55	5	151	0.0	6	FALSE
Nov-22-22 14:00	1	52	64	70	50	53	47	54	50	54	56	4	134	0.0	6	FALSE
Nov-22-22 15:00	1	52	63	67	51	55	50	54	52	56	55	5	114	0.0	5	FALSE
Nov-22-22 16:00	1	53	65	70	53	56	51	57	53	58	58	2	111	0.0	2	FALSE
Nov-22-22 17:00	1	52	64	68	52	58	51	57	54	58	60	1	262	0.0	0	FALSE
Nov-22-22 18:00	1	51	49	51	49	56	47	53	51	56	58	1	288	0.0	-1	FALSE
Nov-22-22 19:00	1	52	66	70	52	58	52	56	53	58	56	2	265	0.0	0	FALSE
Nov-22-22 20:00	1	50	59	63	46	56	46	51	46	55	55	1	155	0.0	0	FALSE
Nov-22-22 21:00	1	47	45	48	44	52	40	47	43	53	54	2	299	0.0	1	FALSE
Nov-22-22 22:00	1	53	64	64	44	52	45	51	47	54	55	2	287	0.0	-1	FALSE
Nov-22-22 23:00	1	48	64	71	49	52	48	55	49	56	53	1	255	0.0	-3	FALSE
Nov-23-22 00:00	1	51	62	67	50	50	49	52	50	53	54	2	310	0.0	-2	FALSE
Nov-23-22 01:00	1	41	41	45	39	45	35	40	36	45	46	2	289	0.0	-2	FALSE

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Nov-23-22 02:00	1	49	62	66	51	43	52	50	48	49	50	3	250	0.0	-2	FALSE
Nov-23-22 03:00	1	42	36	42	34	43	33	37	35	43	42	4	254	0.0	-3	FALSE
Nov-23-22 04:00	1	47	62	66	52	47	50	49	44	50	47	4	250	0.0	-2	FALSE
Nov-23-22 05:00	1	51	63	68	53	51	51	48	46	52	53	2	185	0.0	-2	FALSE
Nov-23-22 06:00	1	48	46	50	48	55	46	49	50	54	57	1	276	0.0	-2	FALSE
Nov-23-22 07:00	1	53	60	64	52	59	53	54	54	57	60	3	266	0.0	-2	FALSE
Nov-23-22 08:00	1	51	51	55	51	58	50	52	49	57	58	4	276	0.0	0	FALSE
Nov-23-22 09:00	1	51	61	67	49	55	52	52	55	53	56	5	255	0.0	2	FALSE
Nov-23-22 10:00	1	56	62	68	49	54	50	51	50	53	54	5	249	0.0	6	FALSE
Nov-23-22 11:00	1	53	65	70	51	55	51	54	49	55	56	6	247	0.0	7	FALSE
Nov-23-22 12:00	1	47	44	49	43	54	46	50	46	51	54	6	238	0.0	8	FALSE
Nov-23-22 13:00	1	49	62	69	48	54	47	51	46	51	53	5	234	0.0	9	FALSE
Nov-23-22 14:00	1	49	60	66	47	53	48	51	47	52	55	5	260	0.0	9	FALSE
Nov-23-22 15:00	1	52	63	68	48	55	51	54	53	57	56	4	241	0.0	8	FALSE
Nov-23-22 16:00	1	53	67	72	53	56	52	55	53	57	58	1	219	0.0	5	FALSE
Nov-23-22 17:00	1	54	66	71	54	57	53	59	55	61	59	1	235	0.0	1	FALSE
Nov-23-22 18:00	1	48	48	49	51	57	46	52	50	56	57	2	191	0.0	-1	FALSE
Nov-23-22 19:00	1	48	57	59	50	56	47	55	48	57	57	1	292	0.0	-2	FALSE
Nov-23-22 20:00	1	50	57	62	48	55	46	53	47	56	55	2	299	0.0	-3	FALSE
Nov-23-22 21:00	1	51	62	66	48	54	49	53	49	56	55	2	292	0.0	-4	FALSE
Nov-23-22 22:00	1	46	47	48	46	52	43	46	44	52	53	1	263	0.0	-5	FALSE
Nov-23-22 23:00	1	53	66	70	53	56	52	58	53	58	54	1	158	0.0	-5	FALSE
Nov-24-22 00:00	1	42	46	63	48	55	52	58	52	58	57	1	303	0.0	-4	FALSE
Nov-24-22 01:00	1	57	69	73	55	60	58	61	57	62	63	1	285	0.0	-2	FALSE
Nov-24-22 02:00	1	41	30	42	32	41	35	35	35	38	39	2	274	0.0	-1	FALSE
Nov-24-22 03:00	1	54	66	69	43	51	50	54	46	56	55	3	311	0.0	0	FALSE
Nov-24-22 04:00	1	38	33	43	35	41	35	36	34	40	43	4	327	0.0	0	FALSE
Nov-24-22 05:00	1	49	64	67	40	48	42	49	41	50	50	3	339	0.0	-1	FALSE
Nov-24-22 06:00	1	46	42	46	42	51	44	46	45	50	52	3	320	0.0	-1	FALSE
Nov-24-22 07:00	1	52	60	65	43	54	48	49	45	52	54	2	280	0.0	-1	FALSE
Nov-24-22 08:00	1	50	63	67	46	54	47	50	46	53	55	2	292	0.0	-1	FALSE
Nov-24-22 09:00	1	44	46	54	45	52	43	46	43	50	52	2	257	0.0	0	FALSE
Nov-24-22 10:00	1	50	49	52	45	52	49	48	45	51	52	3	277	0.0	2	FALSE
Nov-24-22 11:00	1	47	43	49	47	52	51	50	46	50	53	2	197	0.0	4	FALSE
Nov-24-22 12:00	1	51	64	66	48	53	51	48	44	52	53	5	191	0.0	8	FALSE
Nov-24-22 13:00	1	48	47	50	44	54	50	49	44	53	53	8	227	0.0	10	FALSE
Nov-24-22 14:00	1	52	64	69	52	54	52	51	50	55	55	6	238	0.0	11	FALSE
Nov-24-22 15:00	1	54	65	70	53	56	53	55	51	58	57	6	227	0.0	11	FALSE
Nov-24-22 16:00	1	57	68	72	56	58	56	59	56	61	58	2	179	0.0	6	FALSE
Nov-24-22 17:00	1	54	64	68	53	56	53	58	54	59	61	3	168	0.0	3	FALSE
Nov-24-22 18:00	1	56	67	72	55	57	57	58	55	59	60	2	180	0.0	2	FALSE
Nov-24-22 19:00	1	49	50	50	46	55	42	48	45	54	54	3	275	0.0	6	FALSE
Nov-24-22 20:00	1	50	63	69	52	53	51	49	49	54	54	6	238	0.0	8	FALSE

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Nov-24-22 21:00	1	49	55	59	44	53	45	48	45	53	54	6	249	0.0	7	FALSE
Nov-24-22 22:00	1	44	45	46	39	51	47	51	45	52	52	3	277	0.0	6	FALSE
Nov-24-22 23:00	1	49	62	67	50	49	44	45	42	49	47	2	209	0.0	6	FALSE
Nov-25-22 00:00	1	46	60	66	49	47	48	45	50	48	52	8	245	0.8	8	TRUE
Nov-25-22 01:00	1	50	63	67	50	45	52	49	51	49	52	3	237	2.7	6	TRUE
Nov-25-22 02:00	1	36	35	44	33	38	43	49	46	49	50	7	235	0.0	7	FALSE
Nov-25-22 03:00	1	52	65	71	54	44	51	42	50	44	47	8	243	0.0	7	FALSE
Nov-25-22 04:00	1	48	64	70	53	46	51	46	48	47	50	7	255	0.0	7	FALSE
Nov-25-22 05:00	1	45	45	48	45	52	51	46	43	51	56	8	290	0.0	7	FALSE
Nov-25-22 06:00	1	46	49	52	47	54	53	48	48	54	58	11	303	0.0	6	FALSE
Nov-25-22 07:00	1	56	62	66	54	58	59	56	53	57	62	17	310	0.0	6	FALSE
Nov-25-22 08:00	1	51	54	59	58	59	62	52	54	57	62	18	307	0.0	5	FALSE
Nov-25-22 09:00	1	53	64	68	54	56	57	53	51	56	60	14	306	0.0	6	FALSE
Nov-25-22 10:00	1	56	64	69	53	57	58	53	53	56	61	14	301	0.0	6	FALSE
Nov-25-22 11:00	1	53	58	61	52	57	56	51	53	55	60	12	300	0.0	6	FALSE
Nov-25-22 12:00	1	57	53	58	51	57	58	51	54	55	60	15	304	0.0	6	FALSE
Nov-25-22 13:00	1	54	65	70	53	56	56	53	55	56	60	11	298	0.0	6	FALSE
Nov-25-22 14:00	1	55	64	70	55	56	56	53	52	56	60	12	301	0.0	5	FALSE
Nov-25-22 15:00	1	51	53	64	56	56	53	51	54	56	59	11	301	0.0	5	FALSE
Nov-25-22 16:00	1	53	66	72	56	55	52	53	51	56	58	6	297	0.0	5	FALSE
Nov-25-22 17:00	1	53	62	62	48	56	44	49	43	54	58	8	305	0.1	4	TRUE
Nov-25-22 18:00	1	50	60	64	47	54	47	48	43	53	56	6	304	0.0	4	FALSE
Nov-25-22 19:00	1	46	47	47	43	53	39	45	39	51	55	4	288	0.0	4	FALSE
Nov-25-22 20:00	1	51	65	70	52	53	50	49	46	51	54	4	270	0.0	4	FALSE
Nov-25-22 21:00	1	45	46	46	41	52	38	45	38	50	54	3	256	0.0	4	FALSE
Nov-25-22 22:00	1	51	64	69	52	52	52	51	50	53	56	3	248	0.0	3	FALSE
Nov-25-22 23:00	1	41	43	46	40	51	38	44	39	50	52	5	243	0.0	1	FALSE
Nov-26-22 00:00	1	52	65	69	53	50	52	49	50	51	54	5	247	0.0	0	FALSE
Nov-26-22 01:00	1	48	56	44	38	46	36	40	37	45	48	5	245	0.0	0	FALSE
Nov-26-22 02:00	1	41	60	67	53	46	50	45	45	47	49	6	247	0.0	0	FALSE
Nov-26-22 03:00	1	38	35	44	36	43	34	37	33	41	45	4	248	0.0	-1	FALSE
Nov-26-22 04:00	1	49	63	68	51	46	51	49	49	49	53	5	243	0.0	-1	FALSE
Nov-26-22 05:00	1	49	63	67	52	47	49	44	45	47	49	5	247	0.0	-1	FALSE
Nov-26-22 06:00	1	44	43	45	40	50	40	44	40	49	51	6	249	0.0	-1	FALSE
Nov-28-22 07:00	1	51	63	72	49	56	47	54	49	56	58	7	346	0.0	2	FALSE
Nov-28-22 08:00	2	52	63	73	51	57	49	53	49	55	58	8	330	0.0	2	FALSE
Nov-28-22 09:00	2	55	68	76	55	56	49	54	49	55	59	10	319	0.0	2	FALSE
Nov-28-22 10:00	2	53	66	73	51	54	49	54	48	54	56	9	321	0.0	2	FALSE
Nov-28-22 11:00	2	44	47	52	46	54	44	48	46	51	53	8	337	0.0	2	FALSE
Nov-28-22 12:00	2	49	61	67	53	53	48	51	45	52	54	7	333	0.0	2	FALSE
Nov-28-22 13:00	2	49	47	54	48	54	48	51	47	53	55	7	310	0.0	2	FALSE
Nov-28-22 14:00	2	60	54	53	50	56	49	51	47	53	55	7	323	0.0	2	FALSE
Nov-28-22 15:00	2	51	60	63	53	55	48	52	47	54	57	9	327	0.0	1	FALSE

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Nov-28-22 16:00	2	53	65	70	55	57	51	54	51	56	57	5	303	0.0	1	FALSE
Nov-28-22 17:00	2	45	48	50	46	55	46	49	47	53	56	3	303	0.0	1	FALSE
Nov-28-22 18:00	2	44	46	49	44	55	45	49	45	52	55	3	290	0.0	1	FALSE
Nov-28-22 19:00	2	52	68	72	54	52	51	52	47	53	54	4	250	0.0	1	FALSE
Nov-28-22 20:00	2	49	61	66	46	50	44	54	44	57	53	2	99	0.0	0	FALSE
Nov-28-22 21:00	2	51	65	69	45	54	41	54	43	56	51	1	192	0.0	0	FALSE
Nov-28-22 22:00	2	49	62	67	50	49	48	50	42	50	52	1	308	0.0	0	FALSE
Nov-28-22 23:00	2	37	38	45	37	46	37	38	36	44	46	1	236	0.0	0	FALSE
Nov-29-22 00:00	2	35	36	44	35	42	36	37	34	41	43	1	219	0.0	0	FALSE
Nov-29-22 01:00	2	30	33	44	33	39	33	33	32	37	39	1	221	0.0	0	FALSE
Nov-29-22 02:00	2	52	67	71	51	48	50	54	46	55	53	1	126	0.0	0	FALSE
Nov-29-22 03:00	2	48	64	69	47	54	47	51	43	52	47	1	295	0.0	0	FALSE
Nov-29-22 04:00	2	49	63	68	43	51	48	53	45	54	54	1	77	0.0	0	FALSE
Nov-29-22 05:00	2	49	63	66	44	54	47	51	46	52	52	2	124	0.0	0	FALSE
Nov-29-22 06:00	2	54	67	71	49	56	49	56	50	57	56	1	221	0.0	0	FALSE
Nov-29-22 07:00	2	51	50	53	52	54	50	52	53	53	55	1	175	0.0	0	FALSE
Nov-29-22 08:00	2	48	49	53	52	56	50	52	50	54	55	1	140	0.0	1	FALSE
Nov-29-22 09:00	2	48	48	51	51	55	47	51	50	54	52	4	104	0.0	3	FALSE
Nov-29-22 10:00	2	53	64	68	50	55	48	57	50	57	59	6	95	0.0	4	FALSE
Nov-29-22 11:00	2	53	62	66	53	55	48	56	50	56	56	5	97	0.0	5	FALSE
Nov-29-22 12:00	2	53	64	67	49	54	49	55	51	55	56	5	96	0.0	5	FALSE
Nov-29-22 13:00	2	51	61	67	49	52	48	55	50	55	56	5	108	0.0	6	FALSE
Nov-29-22 14:00	2	53	63	65	51	54	49	53	50	55	55	7	107	0.0	6	FALSE
Nov-29-22 15:00	2	54	65	69	53	55	51	57	53	58	56	8	105	0.0	6	FALSE
Nov-29-22 16:00	2	56	67	70	55	58	52	59	54	59	57	9	100	0.0	5	FALSE
Nov-29-22 17:00	2	53	60	63	52	55	50	55	52	56	56	7	99	0.0	5	FALSE
Nov-29-22 18:00	2	51	50	51	51	54	50	52	51	54	54	6	100	0.0	5	FALSE
Nov-29-22 19:00	2	55	67	71	53	55	51	56	51	57	55	5	112	0.0	6	FALSE
Nov-29-22 20:00	2	53	57	64	51	53	49	53	50	55	54	6	121	0.0	5	FALSE
Nov-29-22 21:00	2	51	62	66	48	52	47	56	49	56	56	5	105	0.0	5	FALSE
Nov-29-22 22:00	2	53	60	64	47	50	44	47	44	50	49	6	101	0.0	5	FALSE
Nov-29-22 23:00	2	53	66	71	50	53	46	57	45	58	53	5	99	0.0	4	FALSE
Nov-30-22 00:00	2	51	63	68	46	51	45	56	45	57	56	5	95	0.0	5	FALSE
Nov-30-22 01:00	2	50	56	46	44	47	46	54	44	53	52	6	93	2.3	5	TRUE
Nov-30-22 02:00	2	54	65	70	46	51	48	48	46	48	47	4	116	3.3	5	TRUE
Nov-30-22 03:00	2	42	39	47	44	48	43	53	43	53	46	3	126	2.3	5	TRUE
Nov-30-22 04:00	2	39	37	46	43	46	45	45	42	47	45	3	136	4.1	5	TRUE
Nov-30-22 05:00	2	45	40	47	43	51	41	46	40	53	50	3	138	0.3	6	TRUE
Nov-30-22 06:00	2	50	62	67	51	56	50	52	49	58	56	8	199	0.1	9	TRUE
Nov-30-22 07:00	2	50	50	51	49	58	55	54	50	60	57	7	172	0.8	9	TRUE
Nov-30-22 08:00	2	50	53	55	52	58	56	55	50	61	58	8	179	6.9	9	TRUE
Nov-30-22 09:00	2	53	53	62	53	59	64	55	52	60	58	11	207	15.9	9	TRUE
Nov-30-22 10:00	2	54	63	72	56	59	71	54	54	57	63	12	295	11.2	6	TRUE

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Nov-30-22 11:00	2	55	64	76	55	57	72	55	56	57	63	10	291	0.9	4	TRUE
Nov-30-22 12:00	2	56	66	75	56	58	70	54	54	57	64	11	274	0.0	3	FALSE
Nov-30-22 13:00	2	53	62	76	57	57	69	56	54	57	64	10	276	0.0	2	FALSE
Nov-30-22 14:00	2	53	56	65	56	58	67	59	56	58	66	10	277	0.0	1	FALSE
Nov-30-22 15:00	2	54	64	62	57	60	65	58	57	60	66	13	261	0.1	0	TRUE
Nov-30-22 16:00	2	55	65	49	56	59	61	56	55	59	64	13	260	0.0	0	FALSE
Nov-30-22 17:00	2	52	55	36	54	60	61	57	55	59	64	17	253	0.0	-1	FALSE
Nov-30-22 18:00	2	51	56	41	53	58	59	55	52	57	63	16	251	0.0	-1	FALSE
Nov-30-22 19:00	2	49	52	35	50	57	58	55	51	55	62	16	248	0.3	-2	TRUE
Nov-30-22 20:00	2	50	62	50	54	53	56	52	52	53	61	14	251	0.0	-2	FALSE
Nov-30-22 21:00	2	47	50	36	52	55	60	52	52	53	62	16	250	0.0	-1	FALSE
Nov-30-22 22:00	2	51	59	49	53	55	60	55	53	55	63	15	254	0.0	-2	FALSE
Nov-30-22 23:00	2	52	61	50	51	53	56	51	50	52	59	12	257	0.0	-2	FALSE
Dec-01-22 00:00	2	49	45	35	47	49	54	46	46	48	54	9	273	0.0	-2	FALSE
Dec-01-22 01:00	2	40	41	33	43	46	54	47	46	46	55	7	277	0.0	-3	FALSE
Dec-01-22 02:00	2	40	42	36	45	46	53	46	46	45	55	7	275	0.0	-2	FALSE
Dec-01-22 03:00	2	49	61	55	50	48	57	48	50	48	57	8	270	0.0	-2	FALSE
Dec-01-22 04:00	2	51	62	57	52	49	56	50	50	48	58	9	269	0.0	-2	FALSE
Dec-01-22 05:00	2	51	62	56	51	53	57	50	50	52	57	10	266	0.0	-2	FALSE
Dec-01-22 06:00	2	51	48	44	51	56	60	53	53	56	61	9	273	0.0	-2	FALSE
Dec-01-22 07:00	2	57	51	47	50	58	62	54	55	58	63	8	275	0.0	-3	FALSE
Dec-01-22 08:00	2	53	60	50	51	58	60	53	54	58	62	8	276	0.0	-2	FALSE
Dec-01-22 09:00	2	53	60	62	54	57	61	54	54	57	62	10	268	0.0	-1	FALSE
Dec-01-22 10:00	2	51	51	53	50	56	56	51	50	55	60	12	258	0.0	0	FALSE
Dec-01-22 11:00	2	52	64	69	52	56	55	51	53	55	59	12	256	0.0	0	FALSE
Dec-01-22 12:00	2	54	66	73	56	56	55	52	55	55	59	13	252	0.0	0	FALSE
Dec-01-22 13:00	2	48	55	53	48	55	53	50	49	54	59	12	253	0.0	0	FALSE
Dec-01-22 14:00	2	50	60	66	51	56	51	50	50	55	58	11	258	0.0	1	FALSE
Dec-01-22 15:00	2	52	65	70	53	56	51	51	50	56	59	7	262	0.0	0	FALSE
Dec-01-22 16:00	2	50	57	53	46	57	44	50	47	55	59	7	247	0.0	-1	FALSE
Dec-01-22 17:00	2	50	62	68	53	56	49	51	48	55	58	7	247	0.0	-1	FALSE
Dec-01-22 18:00	2	51	61	66	49	55	43	47	40	53	56	7	243	0.0	-1	FALSE
Dec-01-22 19:00	2	52	66	70	53	54	49	48	47	53	55	5	233	0.0	-2	FALSE
Dec-01-22 20:00	2	50	61	67	50	53	49	49	44	53	53	3	215	0.0	-4	FALSE
Dec-01-22 21:00	2	47	45	48	44	52	40	46	40	52	53	1	231	0.0	-5	FALSE
Dec-01-22 22:00	2	52	68	72	54	52	54	52	49	53	54	1	285	0.0	-6	FALSE
Dec-01-22 23:00	2	43	42	47	46	50	48	48	49	52	52	1	207	0.0	-6	FALSE
Dec-02-22 00:00	2	49	63	67	49	50	48	53	45	54	52	2	192	0.0	-7	FALSE
Dec-02-22 01:00	2	38	38	45	38	42	35	37	34	43	44	1	30	0.0	-6	FALSE
Dec-02-22 02:00	2	48	41	47	39	43	36	40	37	45	44	2	132	0.0	-5	FALSE
Dec-02-22 03:00	2	54	68	71	54	46	56	50	51	50	49	1	111	0.0	-2	FALSE
Dec-02-22 04:00	2	37	37	46	39	46	38	41	37	46	44	4	152	0.0	-1	FALSE
Dec-02-22 05:00	2	47	61	64	47	50	46	48	45	51	51	4	151	0.0	-1	FALSE

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Dec-02-22 06:00	2	54	66	70	53	54	52	55	52	58	58	4	157	0.0	-1	FALSE
Dec-02-22 07:00	2	51	49	51	52	55	50	52	50	56	55	3	141	0.0	-1	FALSE
Dec-02-22 08:00	2	49	49	54	51	56	52	54	56	56	56	4	152	0.0	1	FALSE
Dec-02-22 09:00	2	54	67	71	55	57	52	57	52	58	59	4	168	0.0	2	FALSE
Dec-02-22 10:00	2	52	64	70	52	56	53	56	54	57	71	7	164	0.0	3	FALSE
Dec-02-22 11:00	2	55	64	69	52	56	51	69	52	69	57	7	178	0.0	4	FALSE
Dec-02-22 12:00	2	51	62	68	52	73	72	58	71	58	59	9	197	0.0	5	FALSE
Dec-02-22 13:00	2	52	64	74	70	55	52	55	54	57	58	8	192	0.0	6	FALSE
Dec-02-22 14:00	2	69	69	71	52	55	50	52	53	56	55	7	182	0.3	6	TRUE
Dec-02-22 15:00	2	51	61	71	49	56	49	53	51	57	56	6	192	0.0	6	FALSE
Dec-02-22 16:00	2	53	56	63	52	56	52	54	53	57	57	5	165	2.1	5	TRUE
Dec-02-22 17:00	2	54	68	72	56	57	52	56	52	59	57	4	144	0.6	5	TRUE
Dec-02-22 18:00	2	48	49	49	48	55	45	50	46	57	55	7	173	0.0	6	FALSE
Dec-02-22 19:00	2	51	62	67	50	54	48	51	49	56	55	7	170	0.0	7	FALSE
Dec-02-22 20:00	2	54	66	72	53	54	51	52	51	55	55	9	190	0.0	8	FALSE
Dec-02-22 21:00	2	46	47	49	46	53	44	48	42	54	53	9	204	0.0	9	FALSE
Dec-02-22 22:00	2	49	61	67	51	53	50	50	49	54	53	11	211	2.9	9	TRUE
Dec-02-22 23:00	2	51	62	68	51	53	53	52	53	55	55	11	221	3.8	7	TRUE
Dec-03-22 00:00	2	52	63	67	51	50	51	51	50	53	54	10	199	0.0	8	FALSE
Dec-03-22 01:00	2	40	42	47	42	48	41	44	39	50	48	9	209	0.0	9	FALSE
Dec-03-22 02:00	2	40	42	47	41	48	43	42	39	48	48	11	223	0.0	10	FALSE
Dec-03-22 03:00	2	43	49	52	45	50	47	45	45	48	50	13	227	0.0	10	FALSE
Dec-03-22 04:00	2	50	61	70	54	54	53	49	53	49	53	16	227	0.5	9	TRUE
Dec-03-22 05:00	2	44	45	51	48	51	47	47	44	51	51	14	224	0.2	9	TRUE
Dec-03-22 06:00	2	49	59	63	47	53	47	48	47	53	54	15	228	1.1	10	TRUE
Dec-05-22 07:00	3	51	50	51	48	56	50	53	54	56	57	4	205	0.0	-1	FALSE
Dec-05-22 08:00	3	51	62	67	52	56	52	54	51	58	58	6	213	0.0	1	FALSE
Dec-05-22 09:00	3	54	67	72	56	54	54	52	53	56	56	9	219	0.0	2	FALSE
Dec-05-22 10:00	3	52	49	49	46	54	47	49	46	54	56	10	215	0.0	4	FALSE
Dec-05-22 11:00	3	56	65	70	54	54	54	52	52	55	56	11	222	0.0	4	FALSE
Dec-05-22 12:00	3	53	65	70	54	53	51	50	50	53	55	10	223	0.0	5	FALSE
Dec-05-22 13:00	3	50	62	68	53	54	50	51	49	54	55	9	220	0.0	5	FALSE
Dec-05-22 14:00	3	64	49	49	50	54	43	49	44	54	53	8	215	0.0	5	FALSE
Dec-05-22 15:00	3	51	61	66	50	55	47	51	47	56	55	5	204	0.0	5	FALSE
Dec-05-22 16:00	3	48	51	50	50	55	47	52	49	56	55	4	199	0.0	4	FALSE
Dec-05-22 17:00	3	50	50	50	47	55	46	50	48	55	55	3	193	0.0	4	FALSE
Dec-05-22 18:00	3	48	48	50	49	53	46	51	48	54	55	2	96	0.0	3	FALSE
Dec-05-22 19:00	3	50	62	67	50	54	46	54	47	56	53	2	110	0.0	3	FALSE
Dec-05-22 20:00	3	53	68	72	53	54	52	56	50	57	55	2	237	0.0	2	FALSE
Dec-05-22 21:00	3	48	46	47	43	51	41	45	43	50	49	3	182	0.0	2	FALSE
Dec-05-22 22:00	3	54	67	70	54	51	50	57	49	57	57	4	110	0.0	4	FALSE
Dec-05-22 23:00	3	41	43	46	42	48	40	44	41	48	48	2	148	0.0	2	FALSE
Dec-06-22 00:00	3	48	62	66	50	52	51	55	48	54	56	2	260	0.0	1	FALSE

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Dec-06-22 01:00	3	51	64	66	55	54	55	57	53	56	56	2	267	0.0	1	FALSE
Dec-06-22 02:00	3	36	36	44	39	40	32	33	35	36	37	2	275	0.0	1	FALSE
Dec-06-22 03:00	3	37	37	44	37	39	32	35	33	38	39	1	211	0.0	2	FALSE
Dec-06-22 04:00	3	52	66	69	55	51	49	56	51	56	54	1	105	0.0	2	FALSE
Dec-06-22 05:00	3	51	63	67	53	52	53	55	52	54	51	3	192	0.5	4	TRUE
Dec-06-22 06:00	3	51	63	68	51	54	51	54	51	56	57	2	206	0.0	5	FALSE
Dec-06-22 07:00	3	53	64	68	54	56	53	54	50	56	56	2	276	0.0	5	FALSE
Dec-06-22 08:00	3	53	65	68	55	56	53	55	51	56	56	1	59	0.0	5	FALSE
Dec-06-22 09:00	3	47	47	50	49	53	48	49	48	52	52	1	73	0.0	6	FALSE
Dec-06-22 10:00	3	44	45	48	47	53	48	54	49	55	56	4	121	0.0	6	FALSE
Dec-06-22 11:00	3	54	68	73	53	53	50	53	48	53	53	4	146	0.0	6	FALSE
Dec-06-22 12:00	3	52	64	69	50	52	48	55	49	57	58	4	111	0.0	5	FALSE
Dec-06-22 13:00	3	44	42	47	49	53	46	49	48	52	53	5	117	0.0	5	FALSE
Dec-06-22 14:00	3	52	62	67	49	52	45	53	48	54	52	4	102	0.0	5	FALSE
Dec-06-22 15:00	3	55	66	70	51	54	48	57	50	58	57	3	83	0.0	5	FALSE
Dec-06-22 16:00	3	54	65	70	53	54	50	52	51	52	54	4	95	0.0	5	FALSE
Dec-06-22 17:00	3	54	65	69	51	55	47	57	50	58	55	3	92	0.0	5	FALSE
Dec-06-22 18:00	3	52	52	51	50	51	47	48	49	49	51	4	75	0.0	5	FALSE
Dec-06-22 19:00	3	56	68	71	51	55	49	57	49	59	54	4	74	0.0	4	FALSE
Dec-06-22 20:00	3	56	60	64	49	51	48	49	48	51	52	1	127	0.0	4	FALSE
Dec-06-22 21:00	3	46	45	48	45	50	45	45	44	48	49	1	235	0.0	4	FALSE
Dec-06-22 22:00	3	52	66	70	53	50	46	53	45	56	50	1	213	0.0	4	FALSE
Dec-06-22 23:00	3	51	63	67	48	52	49	53	48	54	53	1	288	0.0	4	FALSE
Dec-07-22 00:00	3	45	58	61	41	51	44	55	45	56	55	1	126	0.0	4	FALSE
Dec-07-22 01:00	3	51	64	67	39	50	37	45	37	46	41	2	237	0.0	4	FALSE
Dec-07-22 02:00	3	29	33	44	33	37	33	30	32	34	37	2	44	0.0	5	FALSE
Dec-07-22 03:00	3	38	34	44	34	38	34	34	36	37	40	3	348	0.0	4	FALSE
Dec-07-22 04:00	3	34	35	44	36	43	35	37	36	40	44	3	226	0.0	5	FALSE
Dec-07-22 05:00	3	49	63	66	44	51	46	50	43	51	51	4	231	0.0	4	FALSE
Dec-07-22 06:00	3	54	63	66	48	53	48	55	48	55	58	4	352	0.0	5	FALSE
Dec-07-22 07:00	3	49	50	51	50	55	48	51	48	52	56	3	333	0.0	5	FALSE
Dec-07-22 08:00	3	52	65	68	53	56	50	53	49	54	56	4	229	0.0	5	FALSE
Dec-07-22 09:00	3	52	59	66	49	53	49	53	48	54	55	4	236	0.0	6	FALSE
Dec-07-22 10:00	3	46	47	50	46	51	42	47	44	47	50	4	124	0.0	7	FALSE
Dec-07-22 11:00	3	56	69	73	47	55	45	57	47	58	55	4	2	0.0	7	FALSE
Dec-07-22 12:00	3	55	66	68	47	52	46	54	47	55	56	5	351	0.0	7	FALSE
Dec-07-22 13:00	3	53	65	69	46	51	45	52	46	52	54	3	233	0.0	8	FALSE
Dec-07-22 14:00	3	52	47	51	46	52	41	49	45	49	52	3	318	0.0	8	FALSE
Dec-07-22 15:00	3	49	48	54	48	55	45	50	47	52	56	3	321	0.0	8	FALSE
Dec-07-22 16:00	3	55	68	73	52	57	49	57	51	58	58	2	209	0.0	8	FALSE
Dec-07-22 17:00	3	51	66	71	54	56	51	53	49	56	56	2	147	0.0	7	FALSE
Dec-07-22 18:00	3	51	50	52	51	55	47	49	47	53	56	2	248	0.0	7	FALSE
Dec-07-22 19:00	3	51	65	70	50	53	50	51	47	54	55	7	301	0.0	7	FALSE

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Dec-07-22 20:00	3	48	57	60	44	51	43	46	40	50	53	7	313	0.0	6	FALSE
Dec-07-22 21:00	3	47	46	47	41	51	37	43	36	49	53	5	302	0.0	6	FALSE
Dec-07-22 22:00	3	45	44	46	40	49	35	41	34	46	50	6	307	0.0	6	FALSE
Dec-07-22 23:00	3	50	65	70	50	49	50	49	43	50	51	4	305	0.0	5	FALSE
Dec-08-22 00:00	3	49	61	67	49	46	50	50	47	49	53	3	261	0.0	5	FALSE
Dec-08-22 01:00	3	45	57	54	36	42	32	34	31	40	43	2	281	0.0	4	FALSE
Dec-08-22 02:00	3	47	62	66	48	43	49	48	46	46	50	2	282	0.0	4	FALSE
Dec-08-22 03:00	3	52	63	68	49	46	53	52	49	50	54	2	296	0.0	4	FALSE
Dec-08-22 04:00	3	36	34	44	35	45	32	38	33	42	46	2	296	0.0	4	FALSE
Dec-08-22 05:00	3	43	39	44	40	50	36	43	37	48	51	3	300	0.0	4	FALSE
Dec-08-22 06:00	3	47	63	68	50	54	50	52	47	53	55	4	309	0.0	4	FALSE
Dec-08-22 07:00	3	52	63	67	49	55	49	53	49	54	57	4	328	0.0	3	FALSE
Dec-08-22 08:00	3	50	51	53	50	56	47	53	49	54	56	7	124	0.0	4	FALSE
Dec-08-22 09:00	3	46	47	51	49	53	45	51	47	50	52	7	9	0.0	4	FALSE
Dec-08-22 10:00	3	54	66	70	47	52	44	55	46	53	54	7	13	0.0	5	FALSE
Dec-08-22 11:00	3	50	61	63	50	55	48	56	49	55	57	4	231	0.0	5	FALSE
Dec-08-22 12:00	3	55	66	70	49	54	49	55	48	55	56	5	222	0.0	5	FALSE
Dec-08-22 13:00	3	53	64	68	51	54	49	55	50	55	55	6	343	0.0	5	FALSE
Dec-08-22 14:00	3	52	48	50	47	51	47	52	51	52	53	7	228	0.0	5	FALSE
Dec-08-22 15:00	3	52	63	67	50	54	46	55	50	55	57	7	237	0.0	4	FALSE
Dec-08-22 16:00	3	48	50	53	52	54	48	55	53	54	56	9	12	0.0	2	FALSE
Dec-08-22 17:00	3	52	65	68	51	53	47	56	49	57	56	9	10	0.0	1	FALSE
Dec-08-22 18:00	3	56	69	71	50	56	48	58	48	60	57	7	7	0.0	0	FALSE
Dec-08-22 19:00	3	53	66	72	49	56	49	58	48	60	56	4	39	0.0	-1	FALSE
Dec-08-22 20:00	3	53	65	69	51	54	47	58	47	60	55	3	58	0.0	-2	FALSE
Dec-08-22 21:00	3	49	48	48	48	49	44	45	46	49	52	2	40	0.0	-3	FALSE
Dec-08-22 22:00	3	48	61	65	46	51	44	52	43	54	53	3	115	0.0	-3	FALSE
Dec-08-22 23:00	3	51	61	66	47	51	48	54	48	55	55	3	228	0.0	-3	FALSE
Dec-09-22 00:00	3	51	67	70	40	52	44	55	43	57	51	3	28	0.0	-2	FALSE
Dec-09-22 01:00	3	51	63	67	42	48	42	53	43	54	53	5	33	0.0	-2	FALSE
Dec-09-22 02:00	3	52	64	70	41	50	47	56	46	56	60	5	13	0.0	-3	FALSE
Dec-09-22 03:00	3	47	63	67	39	49	39	54	38	54	48	6	11	0.0	-2	FALSE
Dec-09-22 04:00	3	34	35	43	38	41	35	39	37	44	45	4	29	0.0	-2	FALSE
Dec-09-22 05:00	3	51	62	66	40	49	40	52	43	53	53	2	32	0.0	-2	FALSE
Dec-09-22 06:00	3	51	65	68	48	52	44	55	47	56	53	3	34	0.0	-2	FALSE
Dec-09-22 07:00	3	52	48	52	51	51	47	52	50	50	53	4	22	0.0	-1	FALSE
Dec-09-22 08:00	3	47	51	52	51	51	47	55	51	51	53	4	25	0.0	-1	FALSE
Dec-09-22 09:00	3	54	66	70	50	54	49	59	51	59	57	5	40	0.0	-1	FALSE
Dec-09-22 10:00	3	52	66	71	50	56	49	60	52	60	55	6	47	0.0	0	FALSE
Dec-09-22 11:00	3	54	62	56	56	51	48	54	50	51	51	8	69	0.0	0	FALSE
Dec-09-22 12:00	3	48	50	52	52	54	50	58	52	56	54	10	79	0.0	1	FALSE
Dec-09-22 13:00	3	53	63	65	52	52	49	65	62	57	54	10	76	0.0	0	FALSE
Dec-09-22 14:00	3	56	67	69	53	54	51	60	59	60	56	8	73	0.0	0	FALSE

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Dec-09-22 15:00	3	54	63	64	54	53	50	58	53	56	56	11	76	0.0	0	FALSE
Dec-09-22 16:00	3	51	50	53	53	50	49	52	53	51	53	10	75	0.0	-1	FALSE
Dec-09-22 17:00	3	54	66	68	52	54	47	58	50	58	54	10	77	0.0	-1	FALSE
Dec-09-22 18:00	3	50	49	50	50	50	48	47	48	49	51	10	78	0.0	-1	FALSE
Dec-09-22 19:00	3	52	63	66	49	52	47	55	48	55	53	8	76	0.0	-1	FALSE
Dec-09-22 20:00	3	55	65	68	48	52	46	56	45	57	53	5	56	0.0	-1	FALSE
Dec-09-22 21:00	3	49	62	66	48	50	45	52	47	52	50	6	58	0.0	-1	FALSE
Dec-09-22 22:00	3	49	50	52	50	51	52	49	50	51	50	11	78	0.0	-1	FALSE
Dec-09-22 23:00	3	55	67	68	50	52	51	56	46	56	53	12	81	0.0	-1	FALSE
Dec-10-22 00:00	3	60	70	72	48	55	50	59	46	58	58	12	84	0.0	-1	FALSE
Dec-10-22 01:00	3	41	42	50	45	47	48	44	48	48	45	12	81	0.0	-1	FALSE
Dec-10-22 02:00	3	38	40	48	44	46	51	43	47	48	44	12	81	0.0	-1	FALSE
Dec-10-22 03:00	3	55	67	69	42	52	47	58	44	57	53	12	77	0.0	-2	FALSE
Dec-10-22 04:00	3	53	64	67	42	51	48	56	46	56	55	11	76	0.0	-2	FALSE
Dec-10-22 05:00	3	51	64	67	41	50	47	55	47	56	47	10	73	0.0	-2	FALSE
Dec-10-22 06:00	3	49	61	65	45	49	46	55	45	55	53	10	76	0.0	-2	FALSE
Dec-12-22 07:00	4	53	65	68	54	54	48	58	50	58	57	8	18	0.0	-4	FALSE
Dec-12-22 08:00	4	55	63	66	51	55	48	59	49	59	61	8	7	0.0	-4	FALSE
Dec-12-22 09:00	4	55	67	69	53	53	45	51	47	50	51	6	23	0.0	-4	FALSE
Dec-12-22 10:00	4	54	67	69	50	51	44	54	46	54	52	4	47	0.0	-3	FALSE
Dec-12-22 11:00	4	46	46	47	46	48	40	45	42	45	49	3	138	0.0	-2	FALSE
Dec-12-22 12:00	4	53	63	66	53	51	44	54	46	53	52	3	28	0.0	-2	FALSE
Dec-12-22 13:00	4	52	63	66	49	51	46	54	47	53	54	4	25	0.0	-2	FALSE
Dec-12-22 14:00	4	60	65	70	50	54	47	55	48	56	54	4	28	0.0	-2	FALSE
Dec-12-22 15:00	4	56	67	71	50	55	47	56	50	56	54	3	24	0.0	-2	FALSE
Dec-12-22 16:00	4	56	63	66	49	56	46	54	49	54	54	2	114	0.0	-3	FALSE
Dec-12-22 17:00	4	58	63	67	49	53	46	54	47	55	56	5	9	0.0	-3	FALSE
Dec-12-22 18:00	4	51	63	68	49	54	47	54	48	55	54	7	237	0.0	-3	FALSE
Dec-12-22 19:00	4	55	60	64	50	53	47	52	47	53	54	6	235	0.0	-3	FALSE
Dec-12-22 20:00	4	52	67	70	46	55	45	56	44	57	53	5	125	0.0	-3	FALSE
Dec-12-22 21:00	4	50	47	46	44	47	39	43	41	45	49	7	2	0.0	-3	FALSE
Dec-12-22 22:00	4	47	45	45	43	45	38	41	41	43	48	6	9	0.0	-4	FALSE
Dec-12-22 23:00	4	48	48	44	40	44	38	39	40	41	45	6	17	0.0	-5	FALSE
Dec-13-22 00:00	4	51	67	70	48	53	48	56	45	56	52	4	340	0.0	-8	FALSE
Dec-13-22 01:00	4	54	67	70	48	52	49	59	50	59	60	2	224	0.0	-10	FALSE
Dec-13-22 02:00	4	47	61	64	43	45	39	36	37	40	41	2	189	0.0	-10	FALSE
Dec-13-22 03:00	4	50	64	68	52	51	51	52	50	53	54	2	295	0.0	-10	FALSE
Dec-13-22 04:00	4	36	43	46	37	47	39	42	40	45	47	3	265	0.0	-10	FALSE
Dec-13-22 05:00	4	51	67	71	51	58	50	56	51	59	56	2	307	0.0	-12	FALSE
Dec-13-22 06:00	4	49	48	51	49	58	49	52	52	55	58	2	318	0.0	-13	FALSE
Dec-13-22 07:00	4	55	65	69	54	61	53	58	55	62	61	2	292	0.0	-13	FALSE
Dec-13-22 08:00	4	50	50	55	54	59	51	54	52	56	60	2	266	0.0	-10	FALSE
Dec-13-22 09:00	4	46	45	52	49	57	49	51	49	53	55	3	264	0.0	-6	FALSE

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Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Dec-13-22 10:00	4	46	44	50	47	52	45	53	49	52	57	4	229	0.0	-3	FALSE
Dec-13-22 11:00	4	53	66	70	44	54	44	55	47	54	54	5	125	0.0	-1	FALSE
Dec-13-22 12:00	4	51	62	65	48	50	42	52	46	50	51	4	8	0.0	0	FALSE
Dec-13-22 13:00	4	51	44	46	43	50	41	50	47	48	50	4	25	0.0	0	FALSE
Dec-13-22 14:00	4	53	65	68	47	52	43	53	47	56	52	3	118	0.0	0	FALSE
Dec-13-22 15:00	4	51	63	67	48	54	45	56	51	57	57	2	50	0.0	-1	FALSE
Dec-13-22 16:00	4	46	60	66	52	57	49	55	53	57	59	2	258	0.0	-3	FALSE
Dec-13-22 17:00	4	53	63	67	52	58	49	57	53	61	59	2	326	0.0	-8	FALSE
Dec-13-22 18:00	4	52	66	70	54	58	48	60	51	63	59	1	272	0.0	-9	FALSE
Dec-13-22 19:00	4	59	60	64	53	57	50	55	51	58	58	2	246	0.0	-10	FALSE
Dec-13-22 20:00	4	52	61	65	50	57	48	54	50	57	59	1	314	0.0	-11	FALSE
Dec-13-22 21:00	4	55	65	70	52	57	47	57	51	59	58	3	274	0.0	-12	FALSE
Dec-13-22 22:00	4	51	49	54	48	53	44	49	46	51	54	2	312	0.0	-12	FALSE
Dec-13-22 23:00	4	55	66	68	48	55	50	59	49	59	62	2	250	0.0	-9	FALSE
Dec-14-22 00:00	4	54	68	71	48	53	48	50	46	54	54	4	228	0.0	-7	FALSE
Dec-14-22 01:00	4	43	40	50	40	52	45	54	45	59	53	5	123	0.0	-7	FALSE
Dec-14-22 02:00	4	37	38	44	39	42	39	37	38	42	44	2	297	0.0	-8	FALSE
Dec-14-22 03:00	4	36	38	44	39	41	40	38	39	43	43	2	307	0.0	-9	FALSE
Dec-14-22 04:00	4	49	65	69	46	51	45	59	44	59	54	2	323	0.0	-9	FALSE
Dec-14-22 05:00	4	45	47	47	49	51	51	50	50	52	54	4	131	0.0	-7	FALSE
Dec-14-22 06:00	4	52	50	50	51	52	50	50	51	51	54	4	23	0.0	-7	FALSE
Dec-14-22 07:00	4	52	64	66	54	55	52	58	54	58	55	5	45	0.0	-7	FALSE
Dec-14-22 08:00	4	58	52	52	54	54	51	52	54	52	55	3	24	0.0	-7	FALSE
Dec-14-22 09:00	4	53	64	67	51	55	50	57	52	56	58	4	24	0.0	-6	FALSE
Dec-14-22 10:00	4	54	66	69	50	55	49	56	50	56	57	4	29	0.0	-5	FALSE
Dec-14-22 11:00	4	54	66	67	48	55	47	55	50	55	55	5	45	0.0	-4	FALSE
Dec-14-22 12:00	4	53	67	71	51	55	48	55	49	55	53	5	55	0.0	-3	FALSE
Dec-14-22 13:00	4	49	49	50	50	48	47	51	50	50	53	7	71	0.0	-2	FALSE
Dec-14-22 14:00	4	53	65	68	51	54	52	60	53	60	57	6	80	0.0	-2	FALSE
Dec-14-22 15:00	4	57	68	70	53	55	51	60	54	60	57	8	80	0.0	-2	FALSE
Dec-14-22 16:00	4	55	67	69	54	55	52	59	55	60	56	7	80	0.0	-3	FALSE
Dec-14-22 17:00	4	55	52	53	54	53	50	52	54	52	54	6	76	0.0	-4	FALSE
Dec-14-22 18:00	4	57	59	61	53	52	50	53	52	53	53	8	83	0.0	-2	FALSE
Dec-14-22 19:00	4	55	53	50	51	51	49	49	49	51	51	10	89	0.0	-2	FALSE
Dec-14-22 20:00	4	57	68	69	52	54	49	58	49	57	54	10	88	0.0	-1	FALSE
Dec-14-22 21:00	4	49	48	51	50	48	51	46	48	50	50	12	88	0.0	-1	FALSE
Dec-14-22 22:00	4	49	49	51	48	49	50	48	49	50	51	11	93	0.0	-1	FALSE
Dec-14-22 23:00	4	44	46	50	47	51	53	48	51	50	50	12	93	0.0	0	FALSE
Dec-15-22 00:00	4	58	66	67	53	55	58	59	55	58	59	15	94	0.0	0	FALSE
Dec-15-22 01:00	4	54	61	64	53	54	60	55	56	58	56	15	91	0.0	0	FALSE
Dec-15-22 02:00	4	55	66	67	55	57	61	58	56	60	58	18	90	0.0	0	FALSE
Dec-15-22 03:00	4	55	63	66	55	55	59	52	54	57	51	17	89	0.0	0	FALSE
Dec-15-22 04:00	4	58	67	68	57	56	62	60	58	62	56	17	90	0.0	0	FALSE

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Dec-15-22 05:00	4	49	63	68	57	58	63	58	57	62	58	19	90	0.0	0	FALSE
Dec-15-22 06:00	4	56	59	62	56	56	62	53	58	60	55	17	91	0.0	0	FALSE
Dec-15-22 07:00	4	52	51	62	58	58	63	55	59	60	57	17	91	2.5	0	TRUE
Dec-15-22 08:00	4	56	65	66	57	58	63	59	58	62	57	20	90	4.2	0	TRUE
Dec-15-22 09:00	4	53	52	62	57	57	64	53	58	62	55	16	84	2.0	0	TRUE
Dec-15-22 10:00	4	58	68	71	58	59	66	58	59	62	58	20	98	8.2	0	TRUE
Dec-15-22 11:00	4	54	51	61	58	57	64	52	58	59	53	7	87	12.1	0	TRUE
Dec-15-22 12:00	4	60	66	71	56	59	62	62	56	64	62	0	0	26.5	0	TRUE
Dec-15-22 13:00	4	56	53	55	52	54	58	52	53	56	54	7	37	1.8	1	TRUE
Dec-15-22 14:00	4	58	64	66	54	62	56	57	54	58	57	12	91	3.2	1	TRUE
Dec-15-22 15:00	4	58	65	67	54	63	53	57	52	59	56	12	93	0.6	2	TRUE
Dec-15-22 16:00	4	58	65	69	54	64	53	58	52	59	56	12	94	2.7	2	TRUE
Dec-15-22 17:00	4	53	49	50	51	60	50	51	50	55	54	10	96	0.4	0	TRUE
Dec-15-22 18:00	4	50	49	50	50	59	49	49	50	53	52	6	63	0.0	0	FALSE
Dec-15-22 19:00	4	56	66	69	49	61	51	55	48	56	53	8	93	0.8	1	TRUE
Dec-15-22 20:00	4	56	66	69	48	60	56	57	46	58	55	9	94	0.9	1	TRUE
Dec-15-22 21:00	4	56	65	68	48	60	56	55	46	56	54	8	92	1.3	1	TRUE
Dec-15-22 22:00	4	46	45	47	46	56	54	45	44	49	48	8	92	0.0	1	FALSE
Dec-15-22 23:00	4	52	56	48	44	55	57	44	45	47	46	9	92	2.5	1	TRUE
Dec-16-22 00:00	4	51	66	68	48	58	55	54	44	54	50	9	93	0.0	2	FALSE
Dec-16-22 01:00	4	57	66	70	48	60	56	59	46	58	59	9	95	0.5	2	TRUE
Dec-16-22 02:00	4	48	60	64	43	53	52	49	38	49	48	7	98	0.2	2	TRUE
Dec-16-22 03:00	4	51	63	66	45	56	55	54	43	53	52	6	100	0.0	2	FALSE
Dec-16-22 04:00	4	40	37	46	38	52	51	41	39	43	43	3	158	0.0	1	FALSE
Dec-16-22 05:00	4	48	62	66	48	59	56	49	41	51	52	3	221	0.0	1	FALSE
Dec-16-22 06:00	4	51	62	67	48	62	57	51	46	53	55	3	233	0.0	1	FALSE
Dec-16-22 07:00	4	52	63	67	50	65	58	53	48	55	59	3	303	0.0	1	FALSE
Dec-16-22 08:00	4	56	49	50	50	64	52	49	45	54	58	2	287	0.0	1	FALSE
Dec-16-22 09:00	4	52	64	68	48	61	56	52	47	53	56	2	265	0.0	1	FALSE
Dec-16-22 10:00	4	53	46	47	46	59	48	45	41	50	53	3	268	0.0	2	FALSE
Dec-16-22 11:00	4	52	66	71	53	60	60	52	47	52	55	3	275	0.0	3	FALSE
Dec-16-22 12:00	4	54	61	67	49	62	54	50	45	52	55	3	249	0.0	3	FALSE
Dec-16-22 13:00	4	53	65	70	52	62	56	51	47	53	57	3	248	0.0	3	FALSE
Dec-16-22 14:00	4	50	61	67	50	64	56	49	44	54	58	4	246	0.0	3	FALSE
Dec-16-22 15:00	4	51	62	68	53	66	57	53	50	57	60	6	243	0.0	2	FALSE
Dec-16-22 16:00	4	51	64	70	56	64	61	53	48	56	58	3	227	0.0	1	FALSE
Dec-16-22 17:00	4	52	64	69	53	62	58	51	48	54	57	2	237	0.0	1	FALSE
Dec-16-22 18:00	4	47	49	49	44	62	51	48	43	54	58	3	237	0.0	1	FALSE
Dec-16-22 19:00	4	47	53	58	44	60	50	47	40	53	55	4	226	0.0	0	FALSE
Dec-16-22 20:00	4	51	64	69	53	59	59	49	46	53	53	3	216	0.0	0	FALSE
Dec-16-22 21:00	4	52	62	66	49	58	52	46	43	51	53	5	227	0.0	0	FALSE
Dec-16-22 22:00	4	47	48	47	42	56	45	43	38	49	52	2	235	0.0	-1	FALSE
Dec-16-22 23:00	4	45	46	47	41	57	44	44	38	50	51	2	211	0.0	-2	FALSE

Phase 1 - Round 2 - Hourly Collected Noise Levels and Weather Data

 means data discarded from analysis due to noise contamination during equipment maintenance
 means data excluded from analysis due to suspected ice accumulation

Time	Week	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	Wind Speed (km/h)	Wind Direction (Deg)	Precipitation (mm)	Temperature (Deg C)	Inclement Weather (True/False)
Dec-17-22 00:00	4	49	62	68	51	56	54	47	43	51	52	1	254	0.0	-3	FALSE
Dec-17-22 01:00	4	49	63	68	54	54	60	51	51	51	52	2	243	0.0	-3	FALSE
Dec-17-22 02:00	4	39	38	44	34	48	41	38	33	43	45	3	245	0.0	-3	FALSE
Dec-17-22 03:00	4	50	62	67	52	49	58	47	47	47	49	4	244	0.0	-2	FALSE
Dec-17-22 04:00	4	51	68	73	58	16	60	48	50	47	50	5	254	0.0	-1	FALSE
Dec-17-22 05:00	4	44	38	64	51	18	57	46	47	47	51	6	243	0.0	-1	FALSE
Dec-17-22 06:00	4	47	61	65	47	20	43	43	36	50	52	6	237	0.0	-1	FALSE

NOTE:

Inclement weather is considered to have occurred under any of the following conditions:

Wind speed greater than 20 km/hour;

Temperature outside of the operating range defined by the manufacturer of the sound level meter (-20°C to +50°C);

Precipitation has occurred

Phase 1 - Round 2 - Weekly Monitoring Summaries

Combined Total Noise Exposure, Ldn - Week 1, November 21 to 25, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	56	55	57	55	55	60	0	0
M02	67	67	69	67	67	68	0	1
M03	72	72	74	73	71	77	0	0
M04	55	56	55	56	57	59	0	0
M05	59	57	60	57	57	60	0	0
M06	56	55	57	57	57	56	1	3
M07	58	57	61	55	53	61	0	0
M08	56	54	57	54	53	57	0	0
M09	60	59	62	58	56	60	0	1
M10	61	59	62	60	60	62	0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

Combined Total Noise Exposure, Ldn - Week 2, November 28 to December 2, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues ¹	Wed ²	Thu	Fri		Construction-related	Total
M01	56	58	56	56	54	60	0	0
M02	69	71	65	68	65	68	0	2
M03	74	75	68	72	69	77	0	0
M04	53	55	57	56	53	59	0	0
M05	58	59	59	57	57	60	0	0
M06	53	52	65	57	54	56	1	2
M07	58	63	57	56	55	61	0	1
M08	51	53	57	54	53	57	0	0
M09	59	63	59	59	58	60	1	1
M10	59	61	65	60	58	62	0	1

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. Ldn is considered not representative since the nighttime period (Tues-Nov-29-22 23:00 to Wed-Nov-30 07:00) had only 2 hours of sound level data unaffected by weather

2. No construction activities occurred on Wed-Nov-30-22 due to weather conditions, per daily progress report (AECOM)

Phase 1 - Round 2 - Weekly Monitoring Summaries

Combined Total Noise Exposure, Ldn - Week 3, December 5 to December 9, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	56	56	55	57	60	60	0	0
M02	68	67	67	69	71	68	0	2
M03	71	71	71	73	73	77	0	0
M04	57	52	52	51	53	59	0	0
M05	58	57	56	57	57	60	0	0
M06	56	51	53	51	55	56	0	0
M07	59	57	56	60	62	61	1	1
M08	55	51	51	52	55	57	0	0
M09	60	58	57	61	62	60	1	2
M10	60	58	58	60	59	62	0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

Combined Total Noise Exposure, Ldn - Week 4, December 12 to December 16, 2022

Monitoring Location ID	Combined Total Noise Exposure, Ldn (dBA)					Allowable Combined Total Noise Exposure, Ldn (dBA)	Exceedance Count	
	Mon	Tues	Wed	Thu ¹	Fri		Construction-related	Total
M01	57	57	61	55	55	60	0	1
M02	70	68	70	68	68	68	0	2
M03	73	72	72	71	73	77	0	0
M04	54	54	60	53	58	59	0	1
M05	59	59	62	64	63 ²	60	0	2
M06	53	54	66	61	62	56	0	3
M07	60	60	62	57	54	61	0	1
M08	54	54	62	50	52	57	0	1
M09	61	62	65	58	56	60	0	3
M10	61	62	62	57	58	62	0	0

NOTE:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. No construction activities occurred on Thu-Dec-15-22 due to inclement weather per daily activity reports. Majority of the collected sound level data was contaminated by inclement weather.

2. Ldn may not be representative due to suspected ice accumulation on the sound level meter during the nighttime period

Phase 1 - Round 2 - Weekly Monitoring Summaries

Change in Percent Highly Annoyed, %HA - Week 1, November 21 to 25, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	5.3	-0.2	-1.3	0.3	-1.2	-1.2	6.5	0	0
M02	17.4	0.4	0.3	5	0.4	-0.8		0	0
M03	44.1	-15.3	-14.7	-10.7	-13.7	-16.7		0	0
M04	4.7	-0.3	-0.3	-0.5	0.2	0.3		0	0
M05	5.3	1.3	0.3	2.8	-0.1	-0.2		0	0
M06	2.5	2.5	1.5	2.8	2.5	2.7		0	0
M07	6.8	-0.7	-1.4	2.2	-2.9	-3.4		0	0
M08	3.2	1.4	0.5	1.9	0.3	0.1		0	0
M09	6.0	1.4	0.8	4	-0.3	-1.2		0	0
M10	7.7	0.7	-0.5	2.6	0.2	-0.2		0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

Change in Percent Highly Annoyed, %HA - Week 2, November 28 to December 2, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues ¹	Wed ²	Thu	Fri		Construction-related	Total
M01	5.3	-0.7	0.8	-0.5	-0.7	-1.5	6.5	0	0
M02	17.4	4.3	8.1	-3.3	2.4	-4.2		0	1
M03	44.1	-10.1	-6.2	-25	-15	-21.7		0	0
M04	4.7	-1.3	-0.6	0.7	-0.2	-1.3		0	0
M05	5.3	0.9	1.1	1.6	0.3	-0.2		0	0
M06	2.5	0.6	0.5	12.2	3	1		0	1
M07	6.8	-1.1	3.6	-1.3	-2	-2.8		0	0
M08	3.2	-0.6	-0.1	1.9	0.5	0.2		0	0
M09	6.0	0.7	4.8	0.4	0.6	0		0	0
M10	7.7	-1.1	1	7	0.1	-1.5		0	1

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. Change in %HA is considered not representative since the nighttime period (Tues-Nov-29-22 23:00 to Wed-Nov-30 07:00) had only 2 hours of sound level data unaffected by weather

2. No construction activities occurred on Wed-Nov-30-22 due to weather conditions, per daily progress report (AECOM)

Phase 1 - Round 2 - Weekly Monitoring Summaries

Change in Percent Highly Annoyed, %HA - Week 3, December 5 to December 9, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues	Wed	Thu	Fri		Construction-related	Total
M01	5.3	-0.4	-0.7	-1.2	-0.2	2.2	6.5	0	0
M02	17.4	1.1	0.6	0.4	4.7	8.8		0	1
M03	44.1	-16.6	-18.1	-16.7	-11.7	-12.5		0	0
M04	4.7	0.6	-1.9	-1.7	-2.1	-1.3		0	0
M05	5.3	0.4	-0.2	-0.5	-0.1	0.3		0	0
M06	2.5	2	0.1	0.6	-0.1	1.6		0	0
M07	6.8	0	-1.3	-2.1	0.9	3		0	0
M08	3.2	0.8	-0.7	-0.8	-0.5	0.9		0	0
M09	6.0	1.4	0.3	-0.8	2.5	3.3		0	0
M10	7.7	-0.2	-1.3	-1.3	0.4	-0.7		0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

Change in Percent Highly Annoyed, %HA - Week 4, December 12 to December 16, 2022

Monitoring Location ID	Existing Percent Highly Annoyed (%)	Change in Percent Highly Annoyed,%HA (%)					Allowable Percent Highly Annoyed Increase (%)	Exceedance Count	
		Mon	Tues	Wed	Thu ¹	Fri		Construction-related	Total
M01	5.3	0.1	-0.1	3.4	-1	-1.2	6.5	0	0
M02	17.4	5.7	2.2	5.3	1.2	2.3		0	0
M03	44.1	-12.3	-15.9	-15.7	-17.3	-11.7		0	0
M04	4.7	-0.9	-1.1	3.4	-1.5	1.6		0	0
M05	5.3	1.8	1.2	3.9	7.3	6.1 ²		0	1
M06	2.5	0.8	1	12.9	6.2	7.6		0	2
M07	6.8	0.9	1.1	3.5	-1.4	-3.3		0	0
M08	3.2	0.4	0.4	6.1	-0.9	-0.3		0	0
M09	6.0	2.8	3.9	7.7	-0.1	-1.3		0	1
M10	7.7	0.9	1.9	2.2	-2.1	-1.4		0	0

NOTES:

Exceedances are considered construction-related where construction-like noise has been identified in the sound level meter audio samples and where construction activities within 500 m of the monitoring location have been identified, per the daily progress reports (AECOM)

M01 and M02 are >1 km from the limit of Phase 1 Activities

1. No construction activities occurred on Thu-Dec-15-22 due to inclement weather per daily activity reports. Majority of the collected sound level data was contaminated by inclement weather.

2. % HA may not be representative due to suspected ice accumulation on the sound level meter during the nighttime period