REPORT

WASTE MANAGEMENT OF CANADA CORPORATION

WATFORD, ONTARIO

TWIN CREEKS ENVIRONMENTAL CENTRE: 2022 ANNUAL MONITORING REPORT VOLUME 5 OF 5: NOISE MONITORING PROGRAM

RWDI #2202861-4000

March 1, 2023

SUBMITTED TO

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STATEMENT OF LIMITATIONS

This report entitled TWIN CREEKS ENVIRONMENTAL CENTRE: 2022 ANNUAL MONITORING REPORT VOLUME 5 OF 5: NOISE MONITORING PROGRAM: RWDI #2202861-4000 was prepared by RWDI Air Inc.("RWDI") for Waste Management of Canada Corporation ("Client"). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein ("Project"). The conclusions and recommendations contained in this report are based on the information available to RWDI when this report was prepared.

The conclusions and recommendations contained in this report have also been made for the specific purpose(s) set out herein. Should the Client or any other Fourth party utilize the report and/or implement the conclusions and recommendations contained therein for any other purpose or project without the involvement of RWDI, the Client or such Fourth party assumes any and all risk of any and all consequences arising from such use and RWDI accepts no responsibility for any liability, loss, or damage of any kind suffered by Client or any other Fourth party arising therefrom.

Finally, it is imperative that the Client and/or any party relying on the conclusions and recommendations in this report carefully review the stated assumptions contained herein and to understand the different factors which may impact the conclusions and recommendations provided.

1 INTRODUCTION

RWDI AIR Inc. (RWDI) was retained by Waste Management of Canada Corporation (WM) to compile the annual monitoring report from the 2022 noise monitoring program at the Twin Creeks Environmental Centre (TCEC).

TCEC's obligations with respect to noise reporting are described in Amended Environment Compliance Approval Number A032203 (ECA) dated February 4, 2023. It is noted that during the 2022 calendar year, TCEC was required to conform to the previous version of this ECA, dated December 19, 2020. This Noise Monitoring Program (NMP) is required under Condition 13.10 of the Amended ECA Number A032203 dated December 19, 2020. Under this condition, the completion of a Noise Monitoring Program (NMP) on an annual basis is required. A copy of the guideline entitled "Environmental Noise Monitoring Program for the Warwick Landfill" dated 21 November 2007 is attached in **Appendix A** of this report.

2 FACILITY DESCRIPTION

TCEC is a waste disposal facility (NAICS Code 562210, Waste Disposal and Treatment). This facility receives municipal, industrial, commercial, and institutional wastes. As of the end of 2021, landfilling occurred in Cell 4C at the landfilling stage described in the NMP as "Phase 8 north centre area @ 250 m". This continued from the start of 2022 for Q1 through to Q3. In Q4, landfilling occurred in Cell 4B with tippers unloading in 6a at the landfilling stages that correspond to both of the landfilling stages described in the NMP as "Phase 6 northwest area @ 240 m" and "Phase 9 northeast area @ 260 m".

3 NOISE MONITORING

3.1 Noise Monitoring Program

The NMP specifies details of TCEC's noise monitoring requirements. As required in the ECA, the NMP dated 21 November 2007 has been used.

Monitoring of the facility noise levels was to be completed quarterly at four (4) monitoring sites around the perimeter of the site. Monitoring sites were selected as indicated in the NMP. A minimum one (1) month sampling period is required for each quarter.

The sampling periods are as follows:

- **1st Quarter**: February 11 to March 13, 2022
- **2nd Quarter:** April 1 to May 1, 2022
- **3rd Quarter:** August 3 to Sept 2, 2022
- **4th Quarter:** October 7 to November 6, 2022

Monitor M1 is located on the outside of the berm along Nauvoo Road, approximately 100 m north of the site entrance. Monitor M1 is heavily influenced by road traffic noise. Monitor M2 is located on the east berm, approximately 200 m from Zion line. Monitor M2 has limited influence from traffic along Zion Line. Monitor M3 is located near Confederation Line; an ATV trail is located next to the monitor. Monitor M3 is also influenced by a nearby dog park and adjacent facilities. Monitor M4 is located south of the woodlot near Nauvoo Road, near the snowmobile and ATV trail on site property. Monitors M1 and M2 are both located on the sides of berms, with the microphone height approximately equal to the height of the top of the berm. Monitors M3 and M4 are located at ground level with the microphone approximately 3 m above ground height. The locations are shown as M1 through M4 in **Figure 1** in the NMP, which is found in **Appendix A**.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN} and L_{MAX} on hourly intervals. All measurements were conducted in compliance with requirements outlined in the Ministry Publication NPC-103 – Procedures (MOE 1978).

Traffic on Nauvoo Road has a notable effect on measurements at location M1. To characterize this effect, analysis was based on traffic counting and classification conducted on Nauvoo Road during the during the 3rd quarter of 2019. This analysis yielded one week of traffic data, and from this information were calculated typical hourly sound levels from traffic noise for each day of the week.

Traffic noise contributions for M1 were determined using Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms (MOE 1989). Note that the speed limit for Nauvoo Road is 80 km/h however observations indicate that a vehicle speed of 100 km/h is more representative. For this situation, the modelled road traffic sound levels are expected to be lower than the actual road traffic sound levels due to limitations of the ORNAMENT model. The under-prediction of traffic noise will result in an overestimate of site noise. Summarized hourly traffic data and ORNAMENT calculations are shown in the appendices of each quarterly noise monitoring report.

Noise due solely to landfilling operations was determined by subtraction of this hourly traffic sound level due to traffic on Nauvoo Road from the hourly measured $L_{EQ,\ 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the hourly traffic sound level exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. Thus, landfilling was considered compliant with the limits.

To evaluate compliance for each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ and the average of the $L_{EQ,\ 1\text{-}hr}$ intervals with acceptable weather conditions were assessed against the noise limit provided in the NMP. The average L_{EQ} was selected to represent the average impacts from the site in the direction of each monitor during the acceptable weather periods. The interval with maximum L_{EQ} was selected to represent the worst-case impacts from the site in the direction of each monitor. The measured L_{EQ} includes noise from both landfilling activities and background noise. In cases where the measured L_{EQ} is below the limit, the noise from landfilling activities is therefore also below the limit. In cases where the measured L_{EQ} is above the limit, additional on-site evaluation is needed to identify the dominant noise sources at the location.

3.2 Sound Level Limits

Sound level limits for landfilling are specified for daytime operation since landfilling occurs only during daytime hours. The applicable limits for landfilling are provided in the guideline entitled "Noise Guidelines for Landfill Sites" (MOE, 1998). The guidelines limit the sound levels at sensitive receptors to 55 dBA. The limits at the monitoring locations presented in the NMP are derived from the 55-dBA limit at the receptors using a distance correction. The distance correction accounts for the location of the sound level meters, which are located between TCEC and noise-sensitive receptors.

Sound level limits for the monitoring locations around TCEC were established in the NMP. **Table 1** of the NMP specifies daytime sound level limits individually for each monitoring station at each stage of site operation. The landfilling stage for Q1, Q2, and Q3 of 2022 is described in the NMP as "Phase 8 north centre area @ 250 m". In Q4, landfilling occurred in Cell 4B with tippers unloading in 6a at the landfilling stages that correspond to both of the landfilling stages described in the NMP as "Phase 6 northwest area @ 240 m" and "Phase 9 northeast area @ 260 m". The sound level limits used in this analysis were the lowest limits for each monitor between the two phases.

3.3 Acceptable Weather Conditions

The NMP outlines acceptable weather conditions when the noise levels should be considered as valid. Temperature, relative humidity, wind speed and precipitation are collected by an on-site meteorological station. Data from monitoring intervals where these parameters exceeded acceptable limits were excluded from the analysis. Acceptable limits are shown in **Table 1** below.

Table 1: Acceptable Weather Conditions

Parameter	Lower Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

3.4 Reporting Requirements

As outlined in the NMP, there are three types of reporting that are required:

1. Complaint Reporting;
2. Quarterly Monitoring Reports; and
3. Annual Monitoring Report.

Complaint reporting is not addressed further in this report because there were no recorded noise complaints for TCEC during 2022. Quarterly reports were completed and attached to this annual monitoring report as **Appendix B**.

The quarterly and annual monitoring reports include the following:

- Summary of the results and analysis;
- Exceedances and responses;
- Complaints and responses; and
- Any recommended improvements in the noise monitoring / operations to address issues.

Details regarding these requirements are outlined in Section 4.

4 CONCLUSIONS AND RECOMMENDATIONS

Average sound levels during the 2022 reporting period were lower than the sound level limits prescribed in the NMP for all monitoring locations except for M1. On-site auditory observations of elevated sound levels by RWDI personnel throughout June and December 2022 did not indicate landfilling was a dominant source, thus suggesting that excess sound levels at M1 were not due to landfilling. These observations and previous on-site investigations are consistent with the observation that hours with excess sound level also occur outside of hours of TCEC operation. These observations showed that exceedances at M1 were driven by traffic noise along Nauvoo Road, along with maintenance activities such as sweeper truck activity that occurred closer to M1 than the landfilling. Therefore, landfilling was not the cause of elevated sound levels at M1.

Over the course of 2022, there were isolated periods where the maximum measured $L_{EQ,\ 1\text{-}hr}$ values exceeded the prescribed sound level limits. These occurred at all locations, both when TCEC was open and when it was closed. A summary is presented in **Table 2** below.

Table 2: Summary of Compliance Statistics 2022 Monitoring

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with Site Open [1,2]	Number of Acceptable Intervals with Site Closed [1,2]	Percentage of Time Noise Levels > 3 dB Above Limit when Site is Open	Percentage of Time Noise Levels > 3 dB Above Limit when Site is Closed
	Site Operating [4]		Site Closed [4]					
	<= 3 dB Above Limit	> 3 dB Above Limit	<= 3 dB Above Limit	> 3 dB Above Limit				
M1	139	172	221	231	420	1036	41.0%	22.3%
M2	30	9	6	9	420	1036	2.1%	0.9%
M3	10	1	7	13	419	1036	0.2%	1.3%
M4	3	0	29	7	420	1036	0.0%	0.7%

Notes:
1. Each interval is defined as 1 hour.
2. Intervals with acceptable weather conditions as described in **Table 1**.
3. Based on $L_{EQ,\ 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable (M1).
4. Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

Sound level increases of three decibels or less are imperceptible, or insignificant, as indicated in the guideline entitled "Noise Guidelines for Landfill Sites" (MOE 1998). Therefore, all intervals with an excess of 3 dB or less above the limit were an imperceptible difference from the limit.

For monitor M1, exceedances greater than three decibels above the limit occurred while the site was operating during Q1, Q2, Q3, and Q4. This pattern at M1 has been observed historically. RWDI reviewed the operations logs and completed investigation into the elevated sound levels at M1 from Q1 through Q4. Operations logs during the four quarters showed sweeper or water truck activity during approximately a third of the exceedances through the year. For the remaining exceedances, the durations and statistical characteristics of the exceedances were similar to historically observed M1 exceedances. Site visits to M1 were conducted by RWDI on June 21, 2022, and December 12, 2022. Sounds at the monitor were characterized by the sweeper when passing by, but were otherwise primarily due to passenger and heavy vehicles passing by with birdsong audible during lulls in traffic. Noise from landfilling was not audible at M1, which is consistent with observations from site visits performed at M1 in 2021 and 2020. Therefore, exceedances at M1 were not observed to be caused by landfilling.

For monitor M2, exceedances greater than three decibels above the limit occurred while the site was operating during Q3 and Q4. The measured $L_{EQ, 1\text{-}hr}$ values during the Third Quarter exceeded the prescribed sound level limits by 3 dB or more at M2 during five hourly intervals while the TCEC was operational. The levels in excess of the limit occur on August 12, 25, 29, 30 and September 1. As part of construction activities, TCEC had been developing and drawing from a stockpile of gravel on the immediate opposite site of the berm from monitor M2 on those days. The gravel stockpiling activities include the drop-off of stone from trucks, building the stockpile with a bulldozer, and loading stone into trucks with a loader. The exceedances at M2 are attributed to this construction activity and were not caused by landfilling. At monitor M2 during the Fourth Quarter, measured hourly sound levels exceeded the hourly limit by more than three decibels during 4 hourly intervals. If these elevated sound levels were due to landfilling activity, levels at monitors other than M2 would register a respective increase in levels. However, the expected increase in sound levels at other monitors during the same time intervals was not present; therefore, the exceedances at M2 were not caused by landfilling but instead local construction activities or an off-site source. It is noteworthy that the gravel stockpile is located closer to M2 than any landfilling activity; thus, regular activity at this stockpile is likely the source of the exceedances at M2. Therefore, the exceedances are not due to landfilling activity on-site.

For monitor M3, exceedances greater than three decibels above the limit occurred while the site was operating during Q2. The measured $L_{EQ, 1\text{-}hr}$ values during the Q2 exceeded the prescribed sound level limits by three decibels or more at M3 during one hourly interval while the TCEC was operational. For this time period, the sound level at M3 for the exceedance was larger than the sound level at M2 and M4 for the same time period, despite the much closer location of M2 and M4 to the landfilling activity. Therefore, the exceedance at M3 was not caused by landfilling.

For monitor M4, no exceedances greater than three decibels above the limit occurred while the site was operating during 2022.

Sound levels from regular operation of landfilling continue to be within the accepted criterion. Therefore, no alternative operating recommendations are necessary.

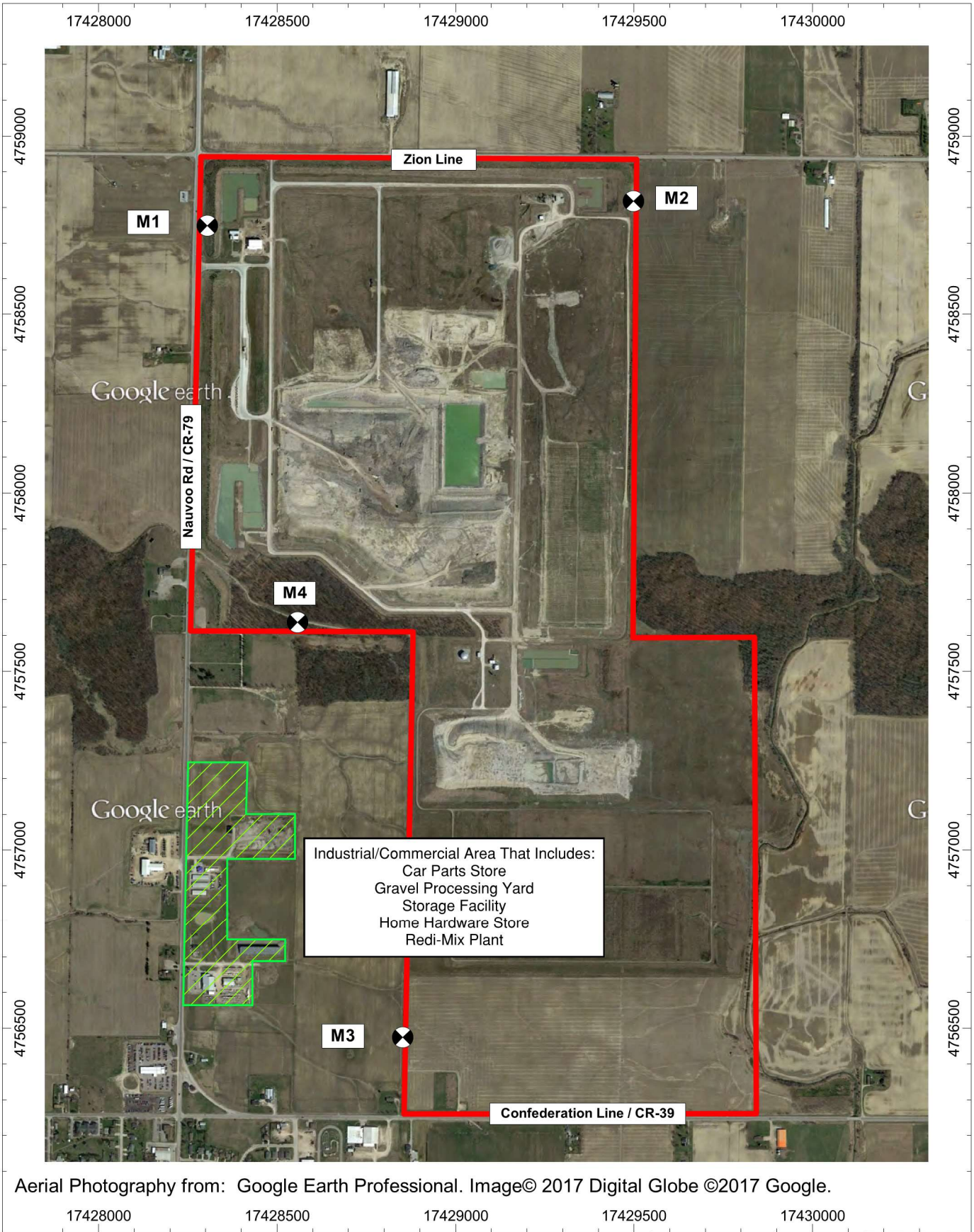
5 REFERENCES

1. Ontario Ministry of the Environment (MOE), 1978, Model Municipal Noise Control Bylaw, which includes Publication NPC-103 – Procedures.

2. Ontario Ministry of the Environment (MOE), 1989, ORNAMENT Ontario Road Noise Analysis Method for Environment and Transportation, Technical Publication.

3. Ontario Ministry of the Environment (MOE), 1998, Noise Guidelines for Landfill Sites.

FIGURES



Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

Project #2202861

Drawn by: KAMH Revised by: ACCL	Figure: 1
Scale:	1:15000
Date:	Feb. 10, 2023

APPENDIX A

ENVIRONMENTAL NOISE MONITORING PROGRAM

FOR THE

WARWICK LANDFILL

Prepared for:

WASTE MANAGEMENT OF CANADA CORPORATION

DRAFT

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1 INTRODUCTION

The following document defines the requirements for a noise monitoring program at the Warwick Landfill site. The purpose of the monitoring program is to monitor and quantify noise levels emanating from the Landfill site as well as noise emissions from vehicular traffic to and from the landfill site.

It is expected that the monitoring program will commence after the perimeter berms are constructed. The duration of the monitoring and reporting activities is expected to extend over the life-span of the project, subject to review by the Waste Management and the Town of Watford.

1.1 Monitoring Basis

The underlying basis for the noise monitoring program is contained in the MOE document "*Noise Guidelines for Landfills, October 1998*"

1.2 Definitions

1.2.1 Sound Pressure Level (SPL)

Sound pressure level is a ratio expressed in a logarithmic scale. The sound pressure level as expressed in decibels (dB) of the sound is 20 times the logarithm to the base 10 of the ratio of the RMS sound pressure and a reference pressure (20 μPa).

1.2.2 A-Weighted Sound Pressure Level

An A-weighted decibel is the sound pressure level measured by applying a frequency weighting, designated the A-scale, to the signal. This frequency weighting (i.e., A-Weighting), specified in IEC 61672-1, is intended to approximate the relative sensitivity of the normal human ear to different frequencies. The level is denoted as dBA.

1.2.3 Energy Equivalent Noise Level (LEQ)

LEQ is the time average of the A-weighted sound pressure level. The average energy equivalent noise level for a specified period is the level of constant or steady state noise that has an amount of acoustical energy equal to the actual noise being measured. This quantity can be readily measured with an integrating sound level meter.

1.2.4 Impulsive Sound Level (dBAI)

"Impulsive sound" is sound that includes one or more clearly distinguishable impulses in an observation period, produced by sources such as bird scaring devices. The "impulsive sound level" is the sound level of an impulsive sound as measure with an Impulse Sound Level Meter set to impulse response. It is measured in A-weighted decibels, denoted dBAI.

1.2.5 Percentile Sound Level L(n)

This quantity is the noise level which has been exceeded `n' percent of the time for a given time period (usually one hour). It is measured in dBA. The L90, for instance, is the sound level exceeded 90 % of the time and this is commonly described as the background noise level in a given community.

2 SELECTION OF INSTRUMENTS

The measurement instrumentation selected shall meet the requirements for a type 2 sound level meter as outlined by publication IEC 61672-1 and as defined by the MOE. Specifically, the unit shall meet the following performance specifications under special environmental and operating conditions.

Standards:	To meet Type 2 specification for either ANSI S1.4 or IEC 61672-1
Microphone Protection:	Windscreen

3 ACOUSTIC PERFORMANCE VERIFICATION

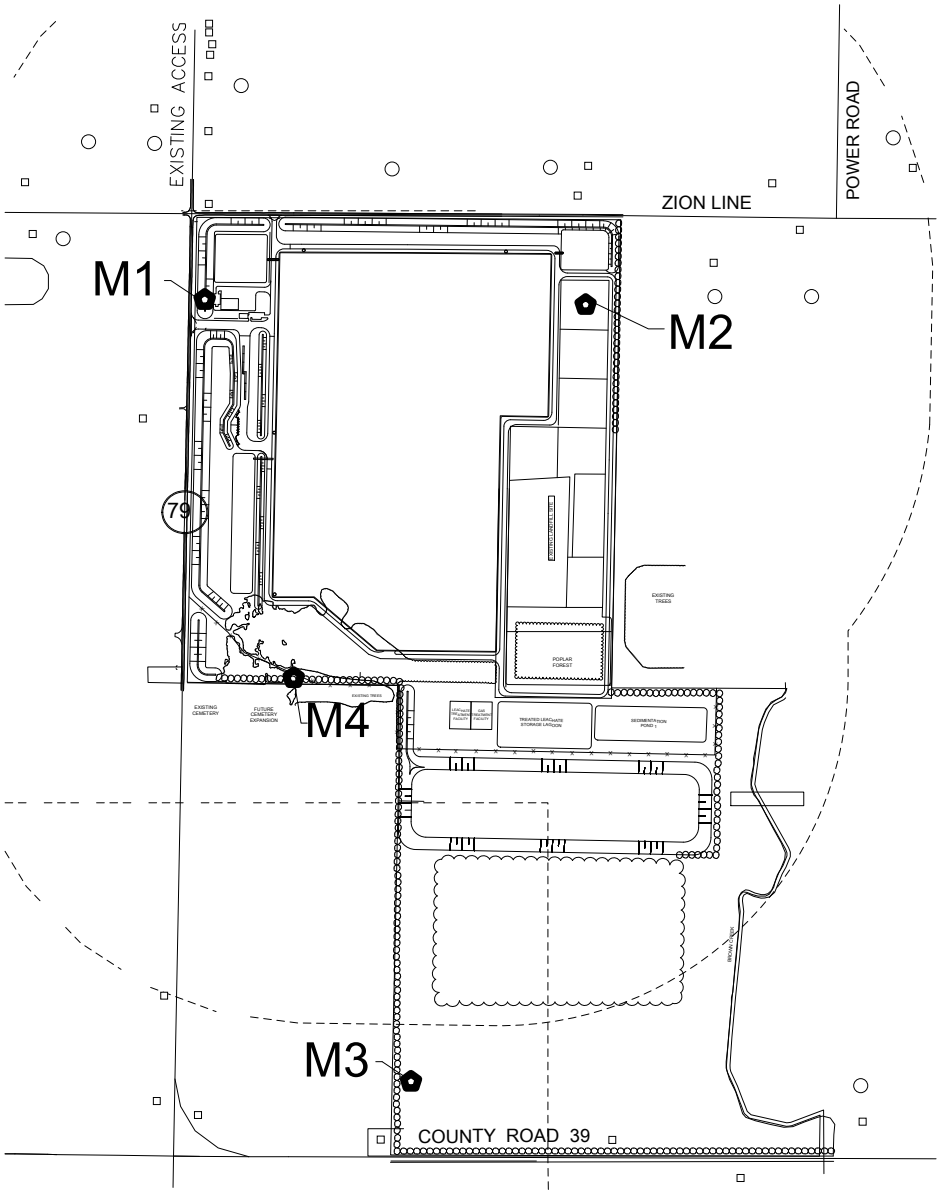
An acoustic performance verification of the Warwick Landfill shall be undertaken before each landfill stage by a qualified acoustical engineer. The purpose of the performance verification is to verify landfill, ancillary equipment and bird control device noise emission levels, duty patterns, hours of operation and to undertake spot check noise measurements at perimeter receptors R1 to R9.

The acoustic performance verification shall be performed in accordance with the MOE procedures outlined in publications NPC-103 and NPC-104 or equivalent updated standards stipulated by MOE. The acoustic performance verification report shall be submitted to Waste Management of Canada Corporation and distributed accordingly.

4 SELECTION OF SITES

Four monitoring locations are considered suitable for monitoring of noise levels from the Warwick landfill site. The location selection process entails the identification of an array site from which it is possible to obtain a reasonable representation of the noise emission from the site impact on the neighbouring receptors. The monitors should be set at the top of the perimeter berm, with suitable protection from vandalism and tampering. The locations shown in Figure 1 have been selected based on these criteria. Key receptor locations along the east, west, south and north perimeter of the Landfill have been selected as suitable monitoring locations.

The monitor locations shall be mounted at least 7m away from any nearby large reflecting surfaces such as a dwelling, garage, barn, etc. so as to minimize effects from stray reflections. The monitors shall also be located 3 m above ground level. In addition, the monitors shall not be located near (i.e. within 15m) any roads, transformers or other nuisance noise sources (unless specifically required) which may significantly affect the results of the noise monitoring.



M1: Entrance to Landfill
M2: Zion Line
M3: County Road 39
M4: Watford Cemetery Extension

FIGURE 1: SUGGESTED LOCATIONS FOR NOISE MONITORING

5 WEATHER MONITORING

Noise monitoring should be performed under atmospheric conditions which are within the limits of the instrumentation specifications. In general, calm to light wind conditions less than or equal to 18 km/hour, no precipitation and temperatures above $-5^{o}C$ are ideal in order to obtain reliable sound level data.

Landfill site weather data which includes wind speed, wind direction, temperature, relative humidity, and precipitation shall be collected on an hourly basis.

6 MONITORING DURATION

Noise shall be monitored at the four monitoring locations for a minimum continuous period of one month, four times per year, with additional monitoring duration if required to obtain representative results given weather conditions.

The MOE inspector shall be trained to undertake quick response spot check noise measurements, in response to any potential noise complaints from the community. The MOE inspector shall use the triggers and response decision flow chart shown in Figure 2 to manage acoustic issues and respond to noise complaints.

6.1 Data Reduction And Analysis

A qualified acoustical consultant or a trained MOE inspector shall analyze the data on a weekly or preferably daily basis in order to determine the source of complaints and whether sound levels due to the operation of the landfill exceed the MOE guidelines and noise limits outlined in the environmental noise study.

Sound levels obtained at the monitoring stations shall be correlated with the landfill site's operations log. A site operation log is therefore required to obtain information regarding the hours of operation and to quantify noise levels under various operating conditions. With the use of the log information, noise levels measured during "operating" and "non- operating" conditions can be established. This will allow information to be correlated between the monitoring stations since the background sound level as well as the noise levels observed during operations can be assessed and compared.

Noise from the on- site operation of the proposed facility is not continuous. Hence, some change in noise impact is expected to occur over time. These levels will also be affected by atmospheric conditions such as wind and other effects. Under these conditions, levels will increase for receptors located downwind from the noise source and similarly decrease for receptors located upwind.

The MOE inspector and/or qualified acoustical consultant shall use the triggers and response decision flow chart shown in Figure 2 and 3 to manage acoustic issues and respond to noise complaints.

7 DATA REPORTING

The data will be analyzed to identify periods of time when noise levels exceed MOE sound limits or other predetermined threshold. The site operational log should be reviewed whenever there are periods of high noise levels.

7.1 Complaint Reports:

In the event of a complaint received by either the MOE inspector or the operator, the operator shall report the complaint and the operator response within 24 hours to the designated person at the Township of Warwick and the MOE inspector. The time, location, response time, and other details of all complaints shall be logged on the operator log sheet.

7.2 Quarterly Monitor Reports:

Quarterly monitoring reports shall be provided to the Township of Warwick, Public Liason Committee and MOE Sarnia District Office by the operator. These quarterly reports shall include summarized monitoring results and analysis completed within the quarter together with exceedances and responses, complaints and responses, and any recommended improvements in noise monitoring/operations to address issues.

7.3 Annual Monitoring Report:

The annual noise monitoring report shall be provided to the Township of Warwick, Public Liason Committee and MOE Sarnia District Office by the operator. This report shall include compilation of noise monitoring results for the year together with a summary of the results including exceedances and responses, complaints and responses, and any recommended improvements in monitoring/operations to address issues.

Figure 2: Noise Complaint Reporting

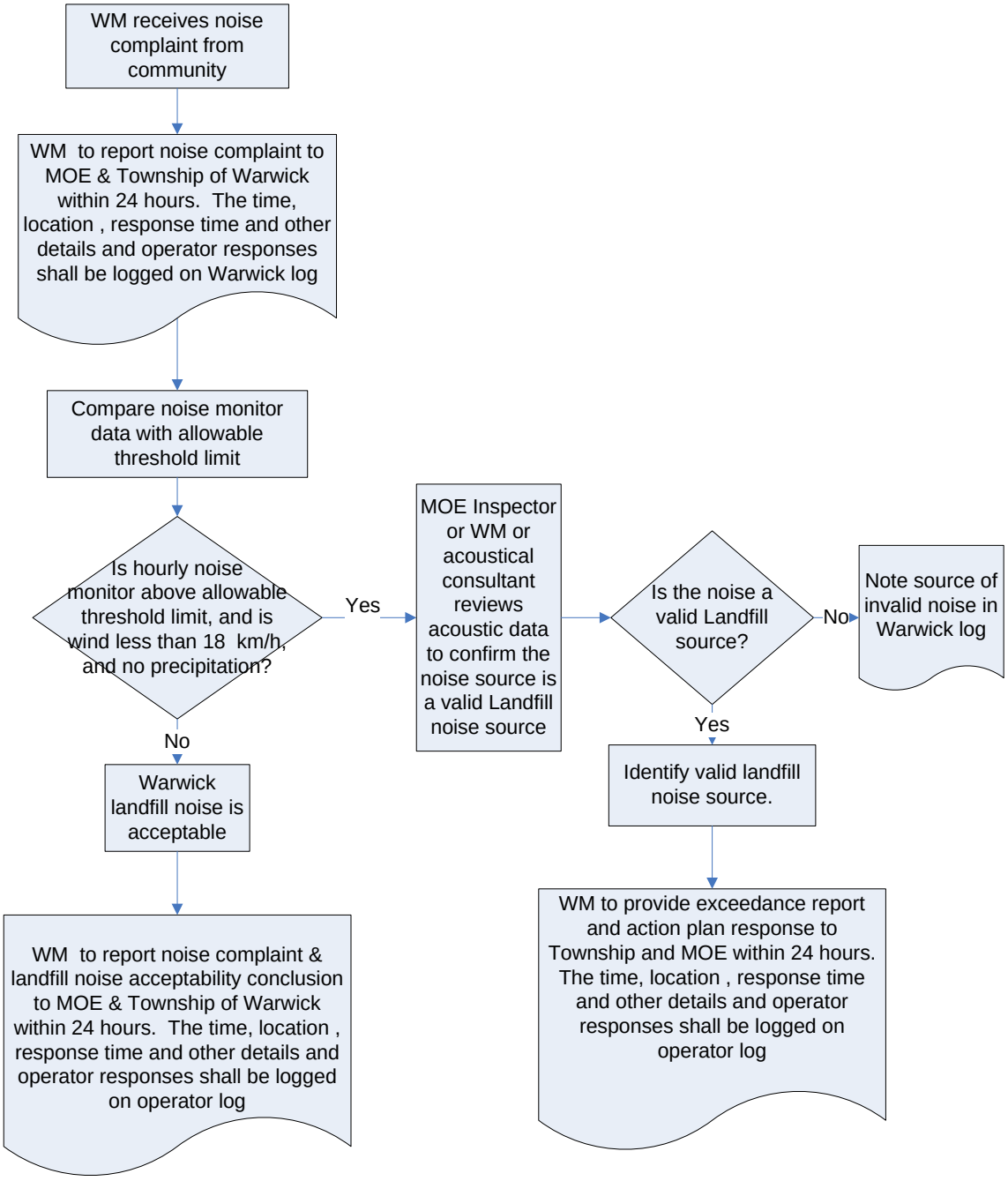


Figure 3: Quarterly Noise Monitoring

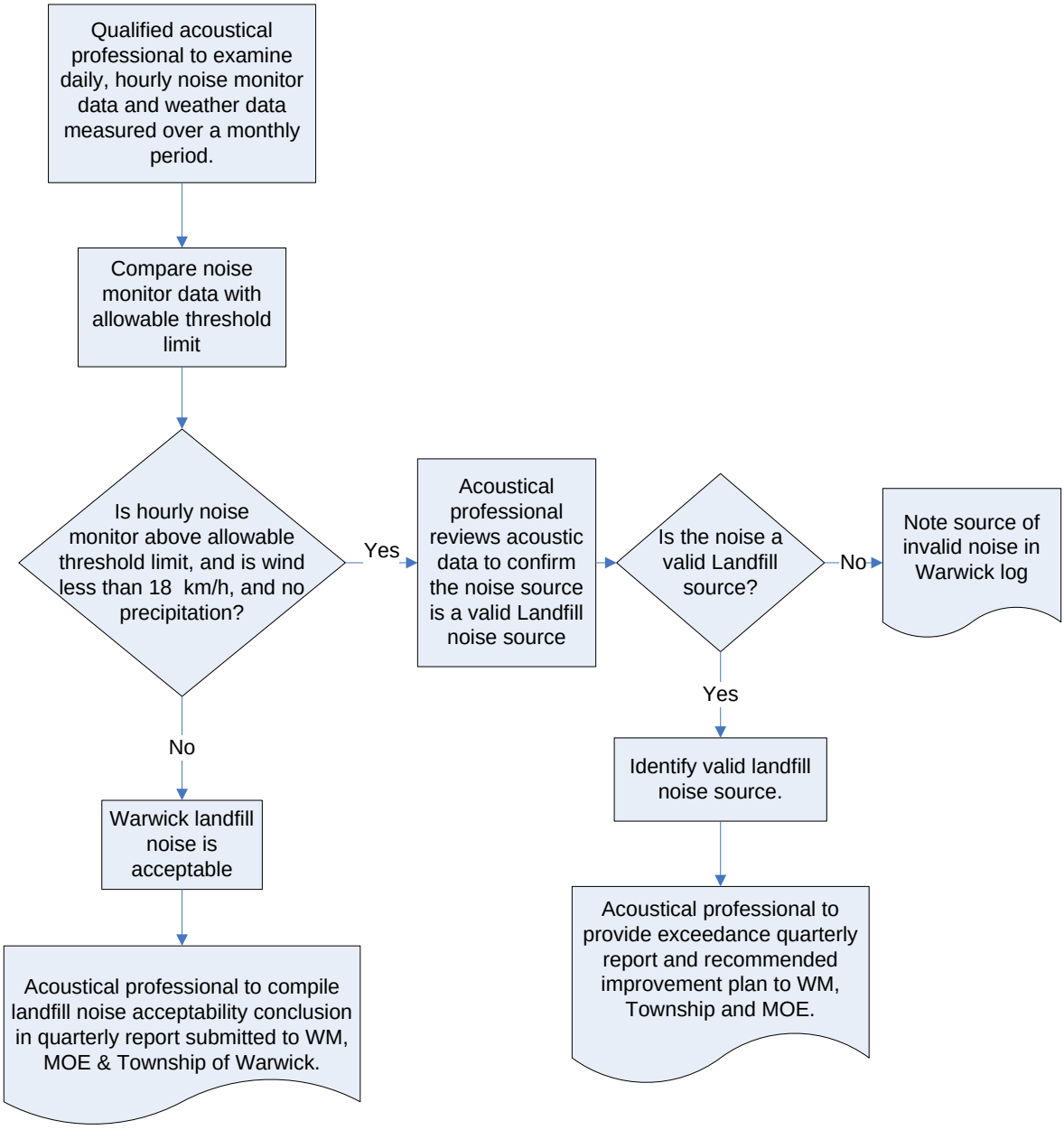


Table 1: Daytime Landfill Noise Thresholds @ Monitor Locations

Landfill Phase	Monitor #1 Daytime Threshold Noise Limit	Monitor #2 Daytime Threshold Noise Limit	Monitor #3 Daytime Threshold Noise Limit	Monitor #4 Daytime Threshold Noise Limit
Phase 1 east area @ 240m	62.7	66.1	55	55.3
Phase 1 east area @ 250m	62.7	66.1	55	55.3
Phase 1 west area	61.6	65.4	55	55.3
Phase 2 west area @ 233m	68.4	57.1	55	55.3
Phase 2 east area @ 250m	63.5	66.2	55	55.3
Phase 3 southwest area @ 234m	59.2	60.7	55	55.3
Phase 3 southwest area @ 235m	59.9	60.4	55	55.3
Phase 3 southwest area @ 240m	63.3	58.8	55	55.3
Phase 3 west area @ 240m	61.5	65.4	55	55.3
Phase 3 east area @ 260m	57.8	57.9	55	55.3
Phase 3 east area @ 270m	58.1	58	55	55.3
Phase 4 @ 250m	62.6	65.2	55	55.3
Phase 5 north area @ 235m	65.3	55.6	55	55.3
Phase 5 center area @ 240m	59.1	61.2	55	55.3
Phase 5 west area @ 250m	60.2	64.9	55	55.3
Phase 6 northwest area @ 240m	61.2	63.2	55	55.3
Phase 6 northwest area @ 250m	64.6	55.2	55	55.3
Phase 6 east area @ 250m	57.5	59.3	55	55.3
Phase 6 west area @ 267.7m	58.5	57	55	55.3
Phase 7 north centre @ 250m	58.7	55.8	55	55.3
Phase 7 west area @ 267.7m	60.2	56.5	55	55.3
Phase 7 south center area @ 275m	58.7	57.5	55	55.3
Phase 8 northeast area @ 235m	59.3	67.7	55	55.3
Phase 8 north center area @ 250m	61.2	55.6	55	55.3
Phase 8 northwest area @ 267.7m	61.6	55.8	55	55.3
Phase 8 center area @ 275m	59.3	57.8	55	55.3
Phase 9 northeast area @ 240m	59.5	69.2	55	55.3
Phase 9 northeast area @ 250m	58.8	59.9	55	55.3
Phase 9 north center area @ 260m	59.5	55.9	55	55.3
Phase 9 north east area @ 260m	62	58.6	55	55.3
Phase 9 north east area @ 267.7m	60.2	57.4	55	55.3
Phase 9 north west area @ 267.7m	60.1	56.7	55	55.3
Phase 9 center area @ 278m	59.3	57.5	55	55.3

APPENDIX B

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May 18, 2022

Ms. Angela McLachlan
Environmental Compliance Manager
Waste Management of Canada Corporation
Twin Creeks Environmental Centre
5768 Nauvoo Road (Watford)
Warwick Township, County of Lambton N0M 2S0
E: amclachl@wm.com

Re: First Quarter 2022 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2202861-4000

Dear Ms. McLachlan,

Waste Management of Canada Corporation (WM) has retained RWDI to conduct the First Quarter acoustic survey for 2022 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 19, 2020. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and,
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

STATEMENT OF LIMITATIONS

This report entitled First Quarter 2022 Noise Monitoring Report: Twin Creeks Environmental Centre – Watford, ON: RWDI Project #2202861-4000 was prepared by RWDI Air Incorporated ("RWDI") for Waste Management of Canada Corporation ("Client"). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein ("Project"). The conclusions and recommendations contained in this report are based on the information available to RWDI when this report was prepared.

The conclusions and recommendations contained in this report have also been made for the specific purpose(s) set out herein. Should the Client or any other third party utilize the report and/or implement the conclusions and recommendations contained therein for any other purpose or project without the involvement of RWDI, the Client or such third party assumes any and all risk of any and all consequences arising from such use and RWDI accepts no responsibility for any liability, loss, or damage of any kind suffered by Client or any other third party arising therefrom.

BEST MANAGED COMPANIES Platinum member

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Finally, it is imperative that the Client and/or any party relying on the conclusions and recommendations in this report carefully review the stated assumptions contained herein and to understand the different factors which may impact the conclusions and recommendations provided.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. Landfilling during the measurement campaign occurred in Cell 4B and 4C at the landfilling stage described in the NMP as "Phase 8 north centre area @ 250 m". The associated sound level limits are shown in **Table 3**.

Table 3: Phase 8 @ 250 Metres Sound Level Limits

Monitor	Limit (dBA)
M1	61
M2	56
M3	55
M4	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2022 First Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ value and the average of the $L_{EQ,\ 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ,\ 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ, 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Third Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ, 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	71	64	ORNAMENT Modelling	70
M2	57	N/A	Conservatively Assumed to be negligible	57
M3	58	N/A	Conservatively Assumed to be negligible	58
M4	55	N/A	Conservatively Assumed to be negligible	55

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour in which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Average Measured $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	350	70	64	61
M2	744	Yes	350	57	50	56
M3	744	Yes	350	58	49	55
M4	744	Yes	350	55	47	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	28	61	49	44	108	242	56.5%	18.2%
M2	2	0	1	0	108	242	0.0%	0.0%
M3	3	0	2	3	108	242	0.0%	1.2%
M4	1	0	1	0	108	242	0.0%	0.0%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit in 89 instances during operational hours, 61 of which were greater than 3 dB above the limit. During non-operational hours, 93 hourly intervals in excess of the limit were recorded, 44 of which were greater than 3 dB above the limit.

At monitor M2, measured hourly sound levels exceeded the hourly limit in 2 instances during operational hours, none of which were greater than 3 dB above the limit. During non-operational hours, 1 hourly interval in excess of the limit was recorded, which was not greater than 3 dB above the limit.

At monitor M3, measured hourly sound levels exceeded the hourly limit in 3 instances during operational hours, none of which were greater than 3 dB above the limit. During non-operational hours, 5 hourly intervals in excess of the limit were recorded, 3 of which were greater than 3 dB above the limit.

At monitor M4, measured hourly sound levels exceeded the hourly limit in 1 instance during operational hours, which was not greater than 3 dB above the limit. During non-operational hours, 1 hourly interval in excess of the limit was recorded, which was not greater than 3 dB above the limit.

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by 3 dB or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ, 1\text{-}hr}$ levels when the TCEC was operational exceeded the prescribed sound level limits as specified in the NMP at M1 but not at M2, M3, or M4.

Monitor M1

At monitor M1, measured hourly sound levels exceeded the hourly limit by more than 3 dB during 61 hourly intervals. An exceedance of 3 dB or more on February 28th at 9 am corresponded to sweeping activity noted in the operating log. Throughout the First Quarter, landfilling continued in 4B and 4C and did not move substantially closer to M1 than in the Fourth Quarter of 2021. The durations and statistical characteristics of the exceedances not matching any logged events were similar to historically observed M1 exceedances. When similar results at M1 occurred in 2021 and 2020, as recently as November 1 – 5, 2021, RWDI site visits consistently found that landfilling was not audible at M1. Therefore, RWDI concludes that the landfilling was not audible at M1.

RWDI will conduct a site visit to confirm the above trend during the Second Quarter of 2022.

Monitor M2

The measured $L_{EQ, 1\text{-}hr}$ values during the First Quarter did not exceed the prescribed sound level limits by 3 dB or more at M2 during any hourly interval while the TCEC was operational.

Monitor M3

The measured $L_{EQ, 1\text{-}hr}$ values during the First Quarter did not exceed the prescribed sound level limits by 3 dB or more at M3 during any hourly interval while the TCEC was operational.

Monitor M4

The measured $L_{EQ, 1\text{-}hr}$ values during the First Quarter did not exceed the prescribed sound level limits by 3 dB or more at M4 during any hourly interval while the TCEC was operational.

In summary, none of the events of elevated sound level at the monitors are attributable to landfilling activity in the First Quarter.

CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI AIR Inc.

Khalid Hussein, P.Eng.
Project Manager

Brent Langille, B.Sc., P.Geo.
Senior Consultant | Principal

KAMH/BJL/kta

Attach.

FIGURES



Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

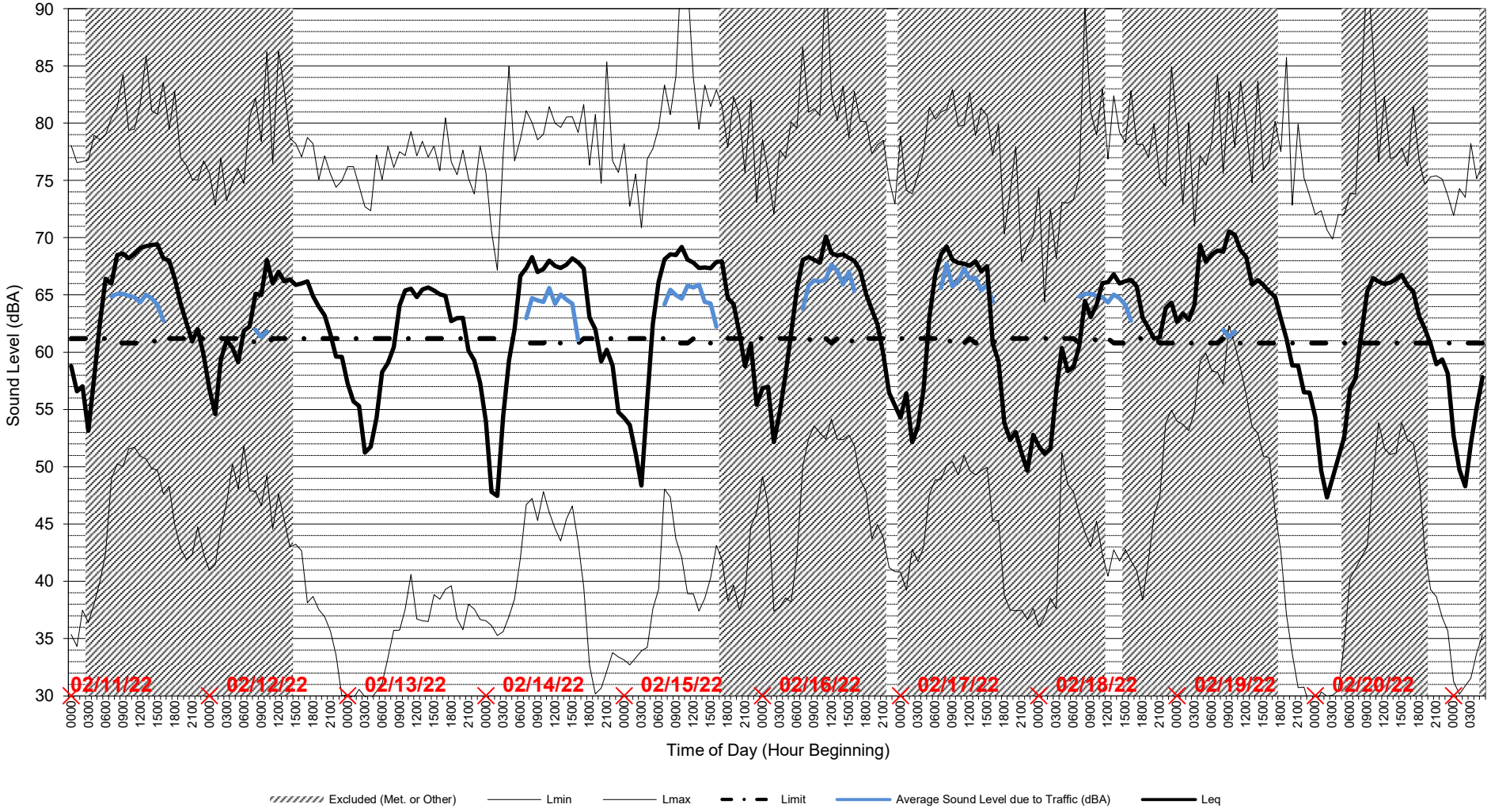
Project #2101781

Drawn by: KAMH Revised by: MFA	Figure: 1
Scale:	1:15000
Date:	Nov. 26, 2019

APPENDIX A

Long-Term Measurement Results

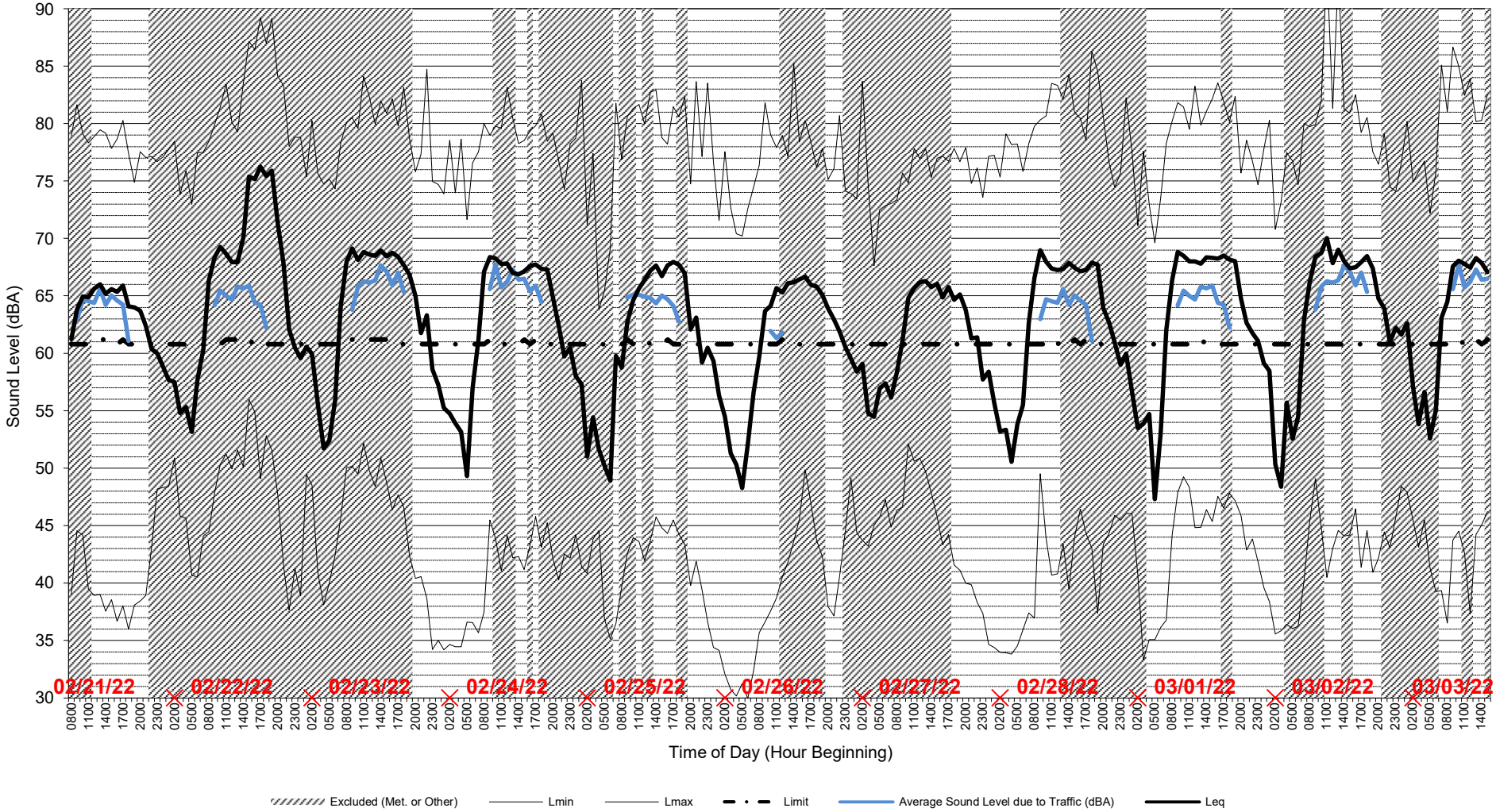
M1



Measured Ambient Sound Levels From Feb 11,2022 to Feb 21,2022 Twin Creeks Environmental Centre	Project # 2202861	Figure No. **M1a** Date: May 12, 2022	RWDI

Long-Term Measurement Results

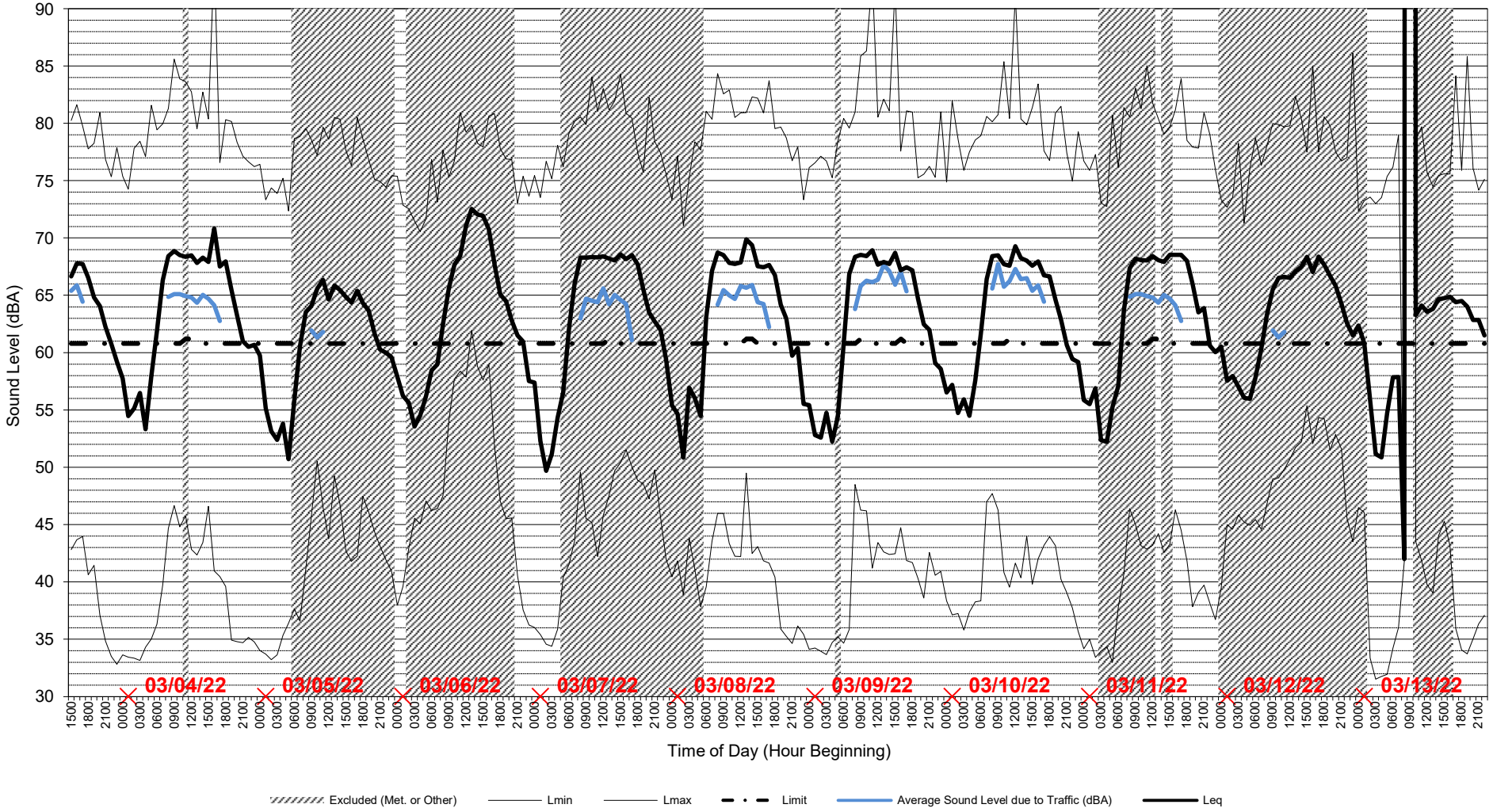
M1



Measured Ambient Sound Levels From Feb 21,2022 to Mar 3,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1b** Date: May 12, 2022	RWDI

Long-Term Measurement Results

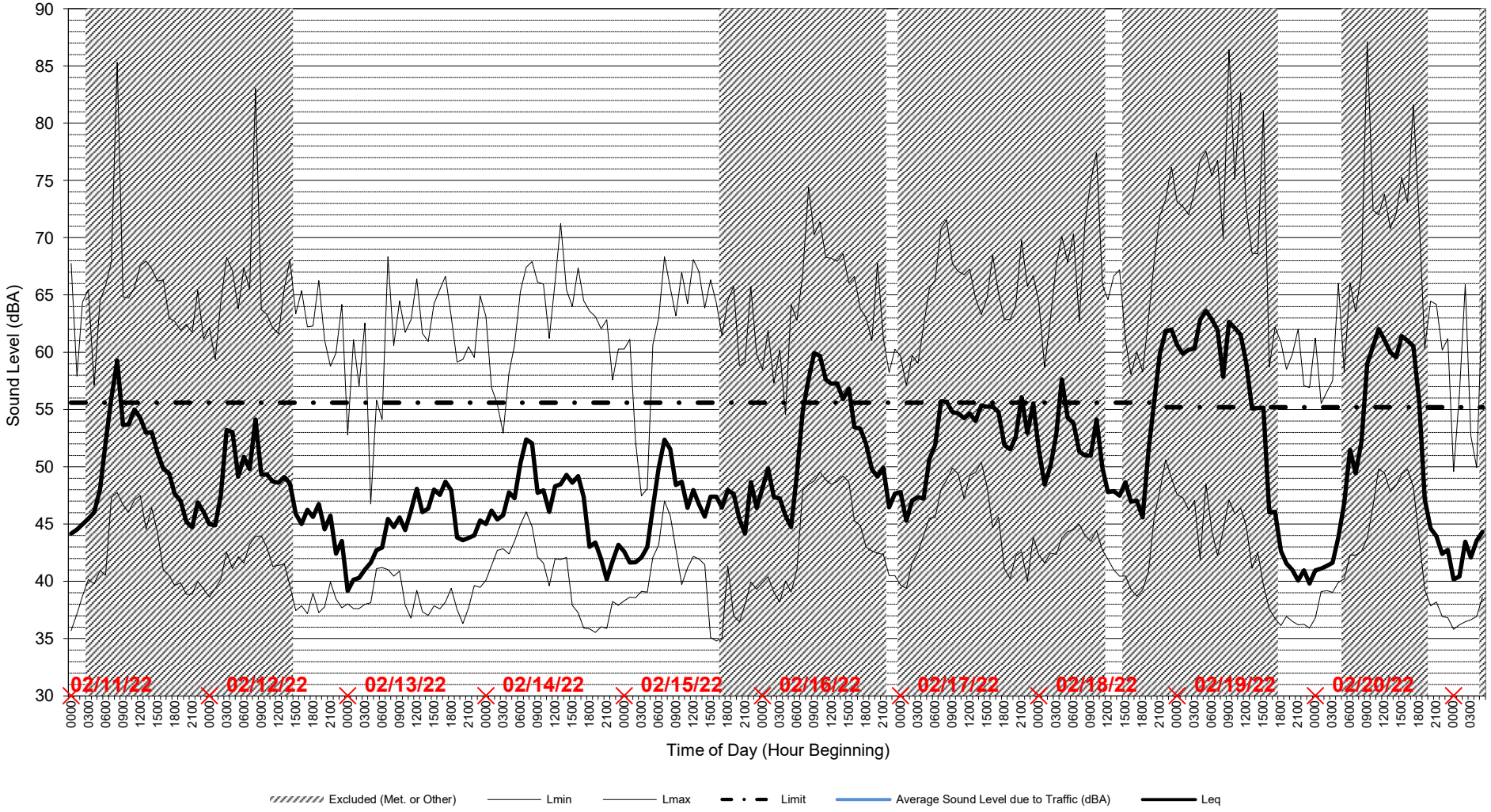
M1



Measured Ambient Sound Levels From Mar 3,2022 to Mar 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1c** Date: May 12, 2022	RWDI

Long-Term Measurement Results

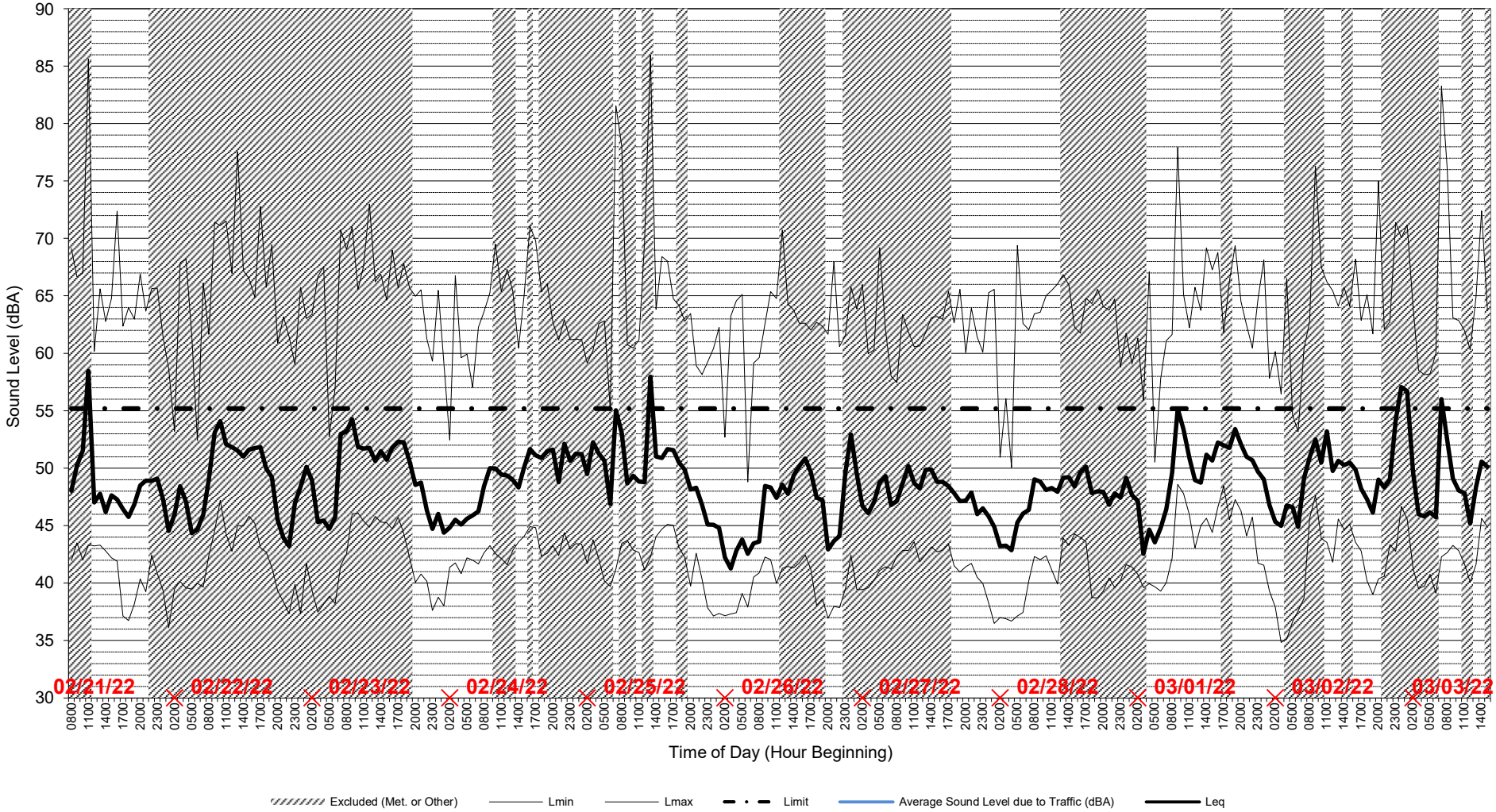
M2



Measured Ambient Sound Levels From Feb 11,2022 to Feb 21,2022 Twin Creeks Environmental Centre	Project # 2202861	Figure No. **M2a** Date: May 12, 2022	RWDI

Long-Term Measurement Results

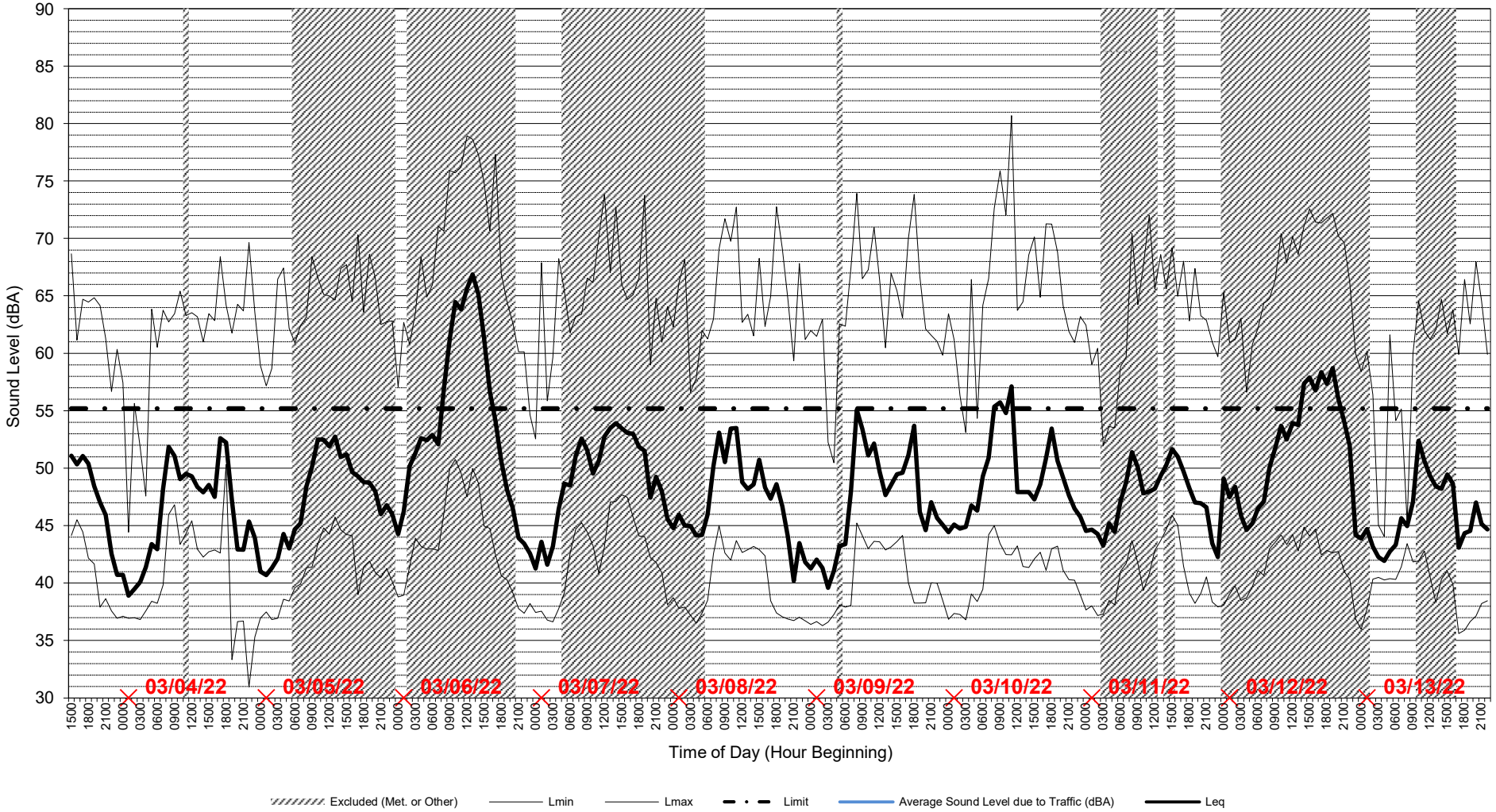
M2



Measured Ambient Sound Levels From Feb 21,2022 to Mar 3,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2b** Date: May 12, 2022	RWDI

Long-Term Measurement Results

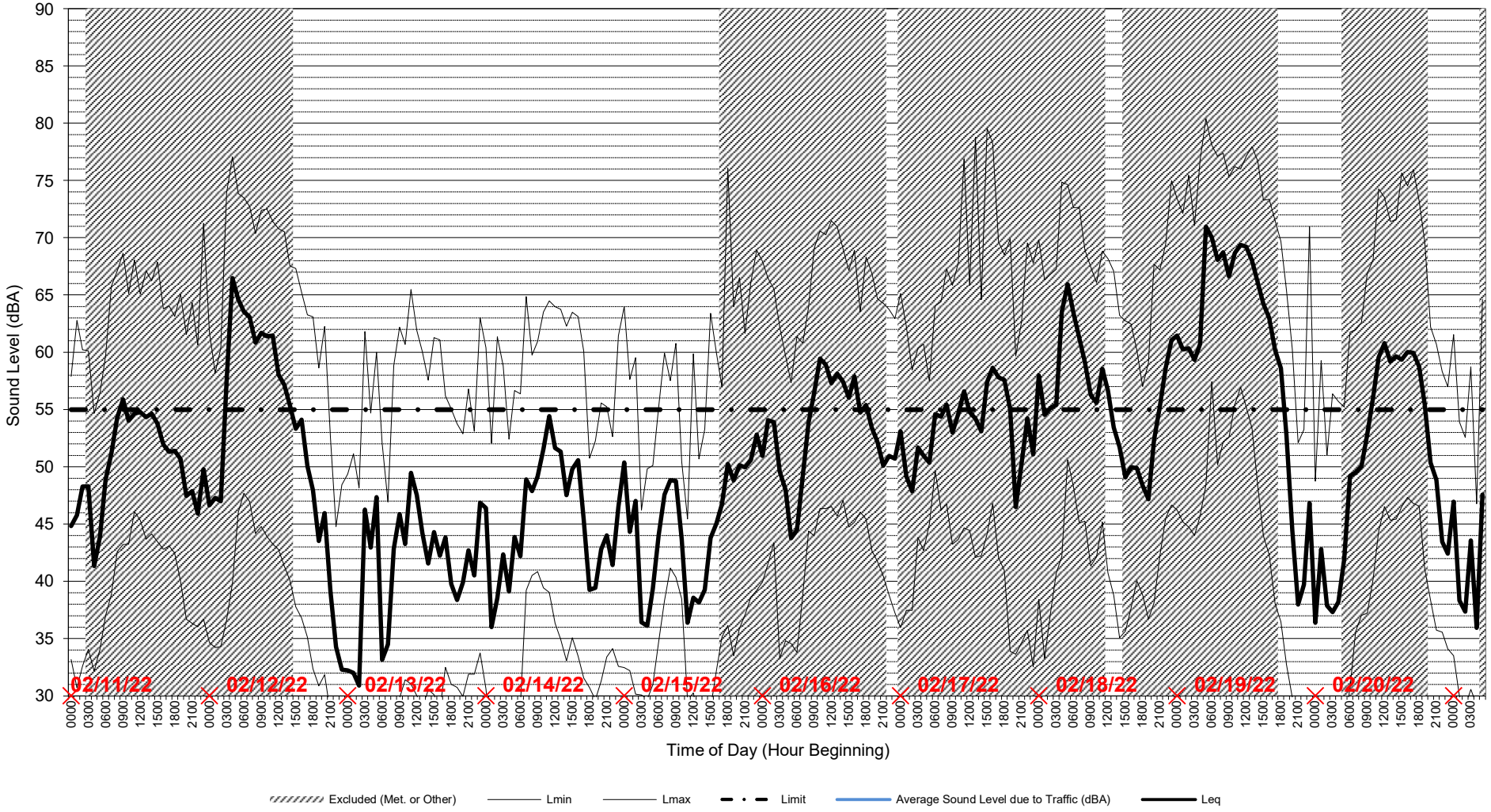
M2



Measured Ambient Sound Levels From Mar 3,2022 to Mar 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2c** Date: May 12, 2022	RWDI

Long-Term Measurement Results

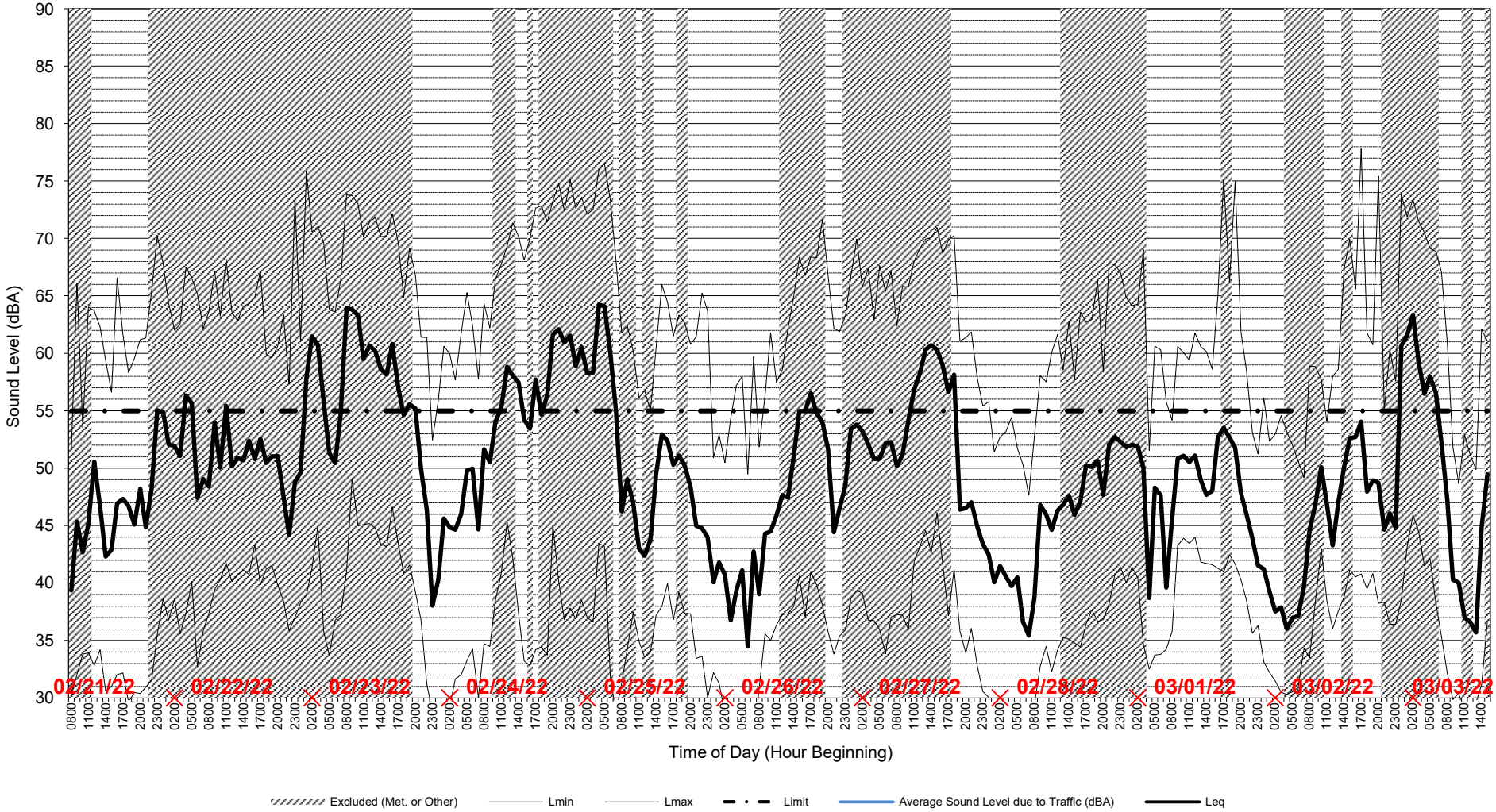
M3



Measured Ambient Sound Levels From Feb 11,2022 to Feb 21,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M3a** Date: May 12, 2022	RWDI

Long-Term Measurement Results

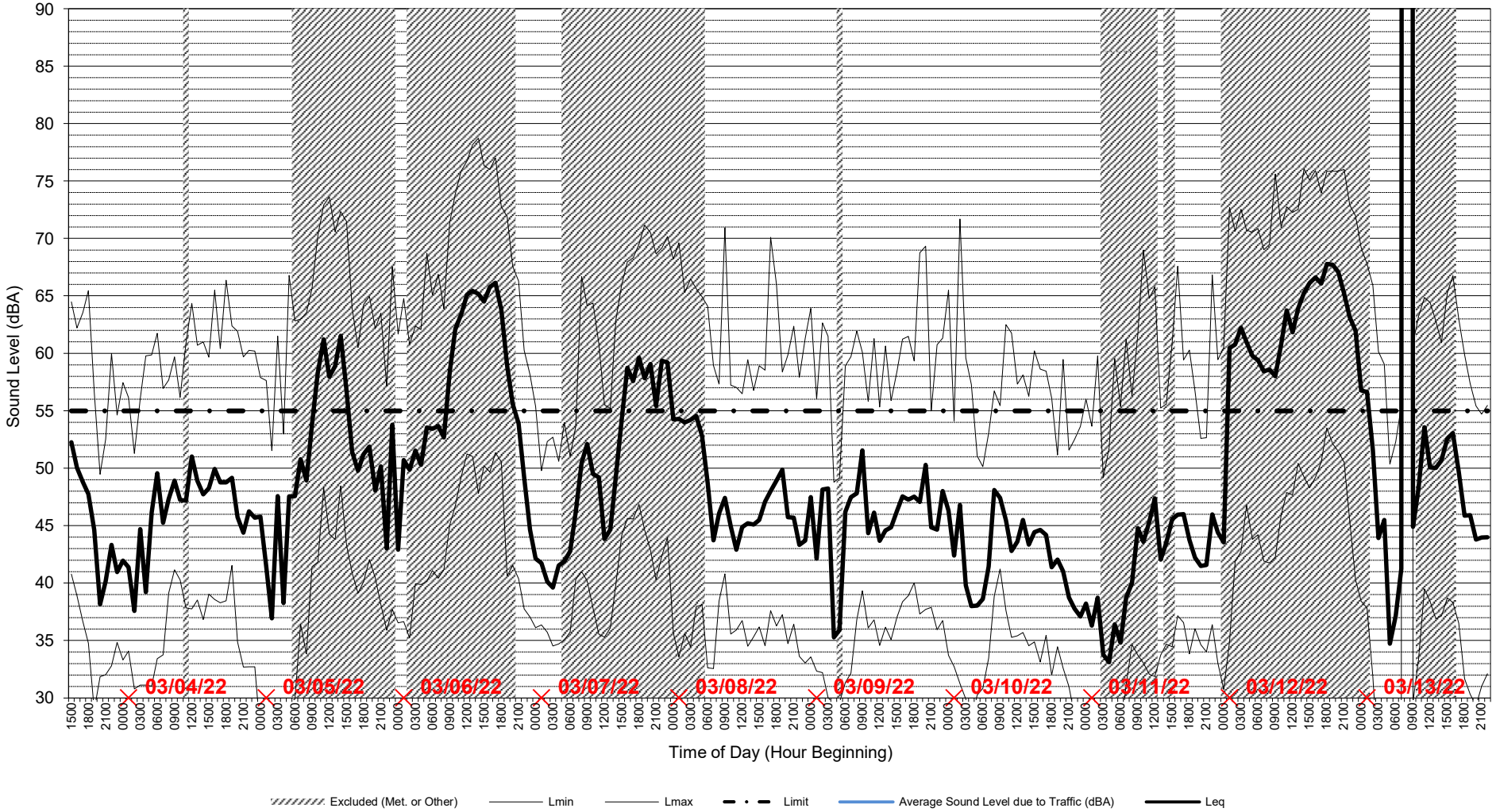
M3



Measured Ambient Sound Levels From Feb 21,2022 to Mar 3,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M3b** Date: May 12, 2022	RWDI

Long-Term Measurement Results

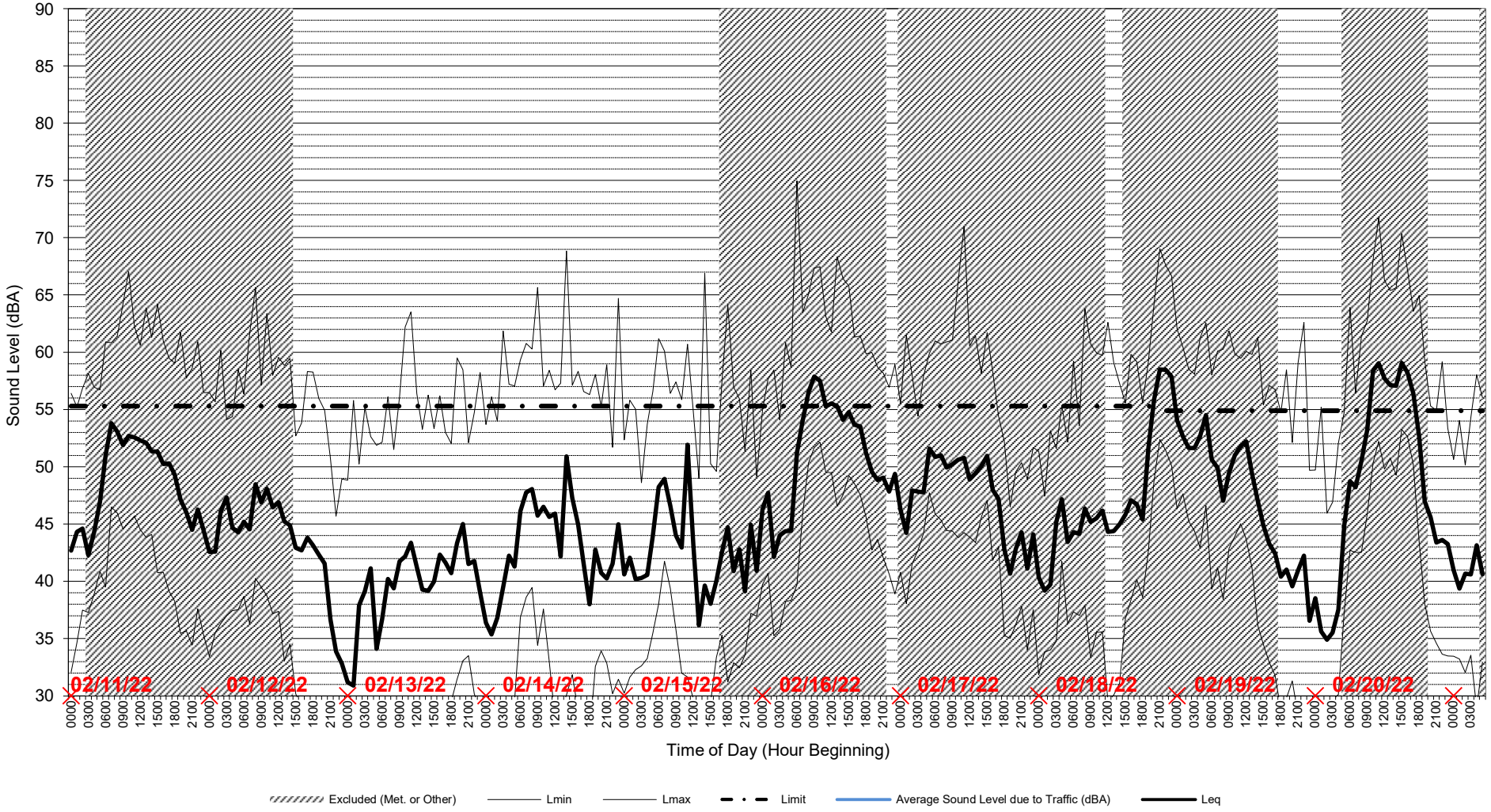
M3



Measured Ambient Sound Levels From Mar 3,2022 to Mar 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3c** Date: May 12, 2022	RWDI

Long-Term Measurement Results

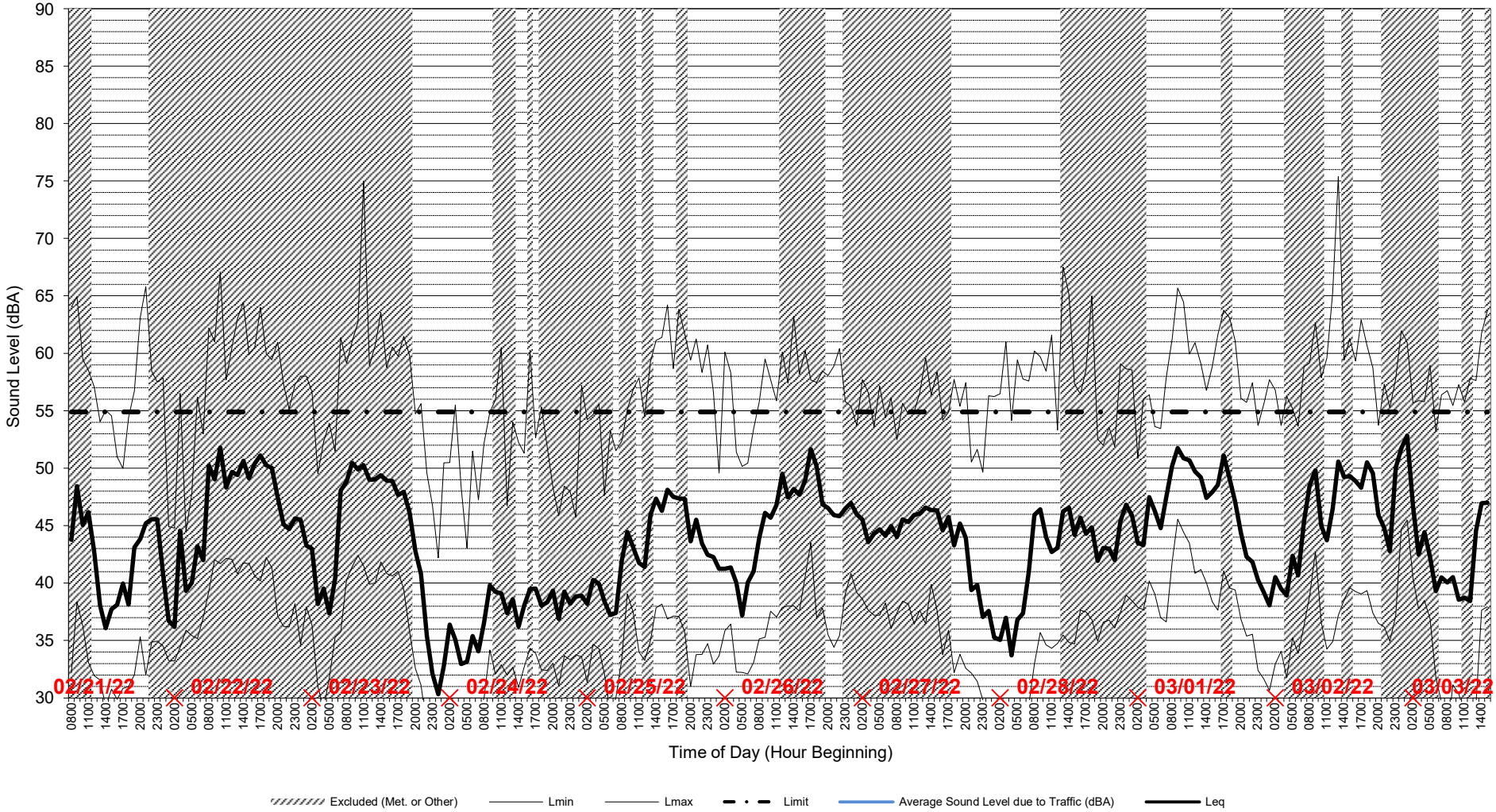
M4



Measured Ambient Sound Levels From Feb 11,2022 to Feb 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4a** Date: May 12, 2022	RWDI

Long-Term Measurement Results

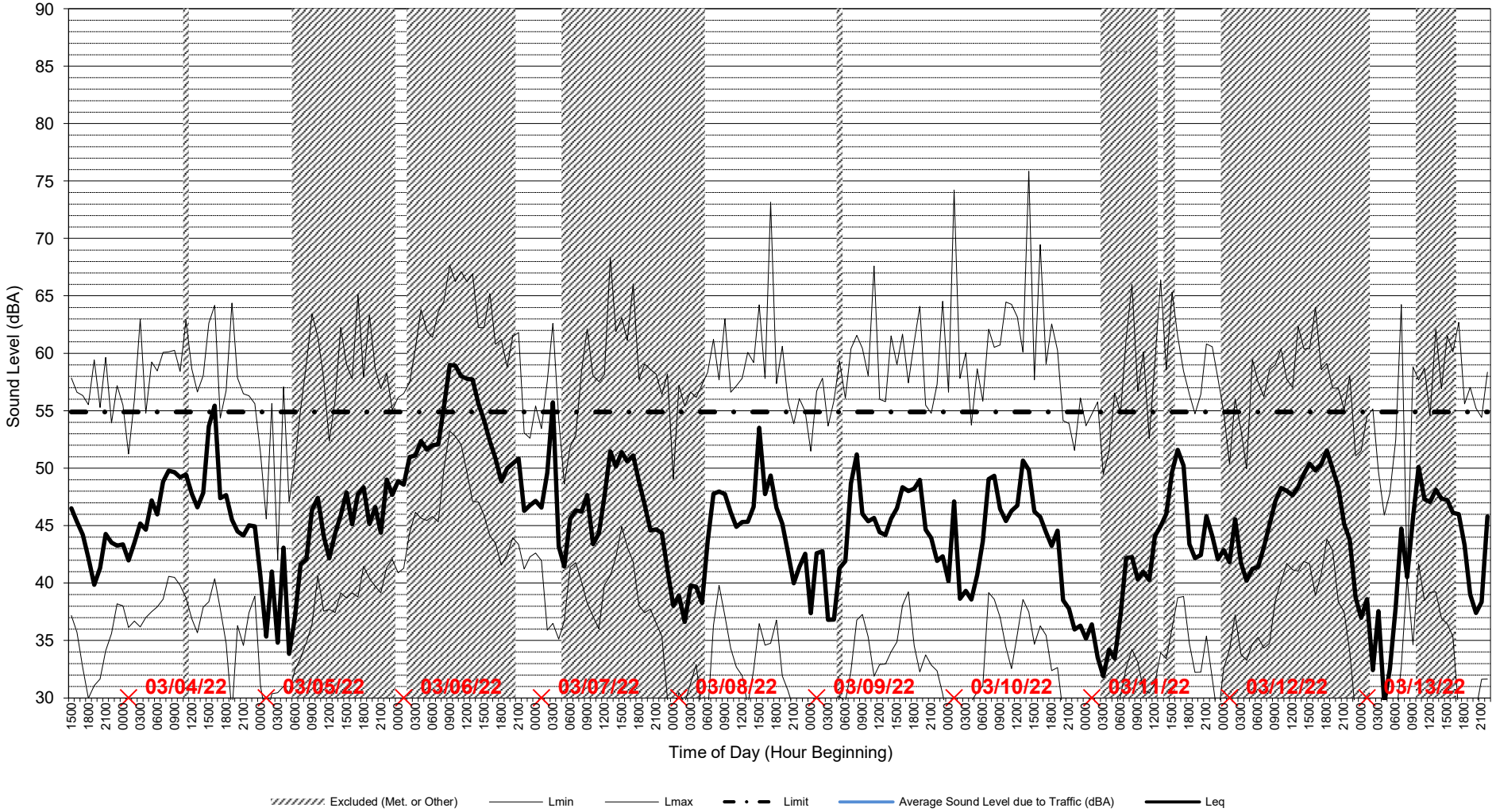
M4



Measured Ambient Sound Levels From Feb 21,2022 to Mar 3,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M4b** Date: May 12, 2022	RWDI

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Mar 3,2022 to Mar 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4c** Date: May 12, 2022	RWDI

APPENDIX B

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/31/2021 0:00	1	16	20	SE (133)	92	0	
12/31/2021 1:00	1	16	22	SE (137)	100	0	
12/31/2021 2:00	1.3	16	20	SSE (150)	100	0	
12/31/2021 3:00	1.6	13	17	SSE (150)	100	0	
12/31/2021 4:00	1.9	10	16	S (177)	100	0	
12/31/2021 5:00	2.3	10	14	SSE (165)	100	0	
12/31/2021 6:00	2.6	6	10	S (190)	100	0	
12/31/2021 7:00	2.7	6	9	SSE (162)	100	0	0
12/31/2021 8:00	3.2	6	12	SSW (202)	100	0.2	
12/31/2021 9:00	3.5	12	24	WSW (258)	100	0	
12/31/2021 10:00	4.1	11	19	SW (233)	100	0	
12/31/2021 11:00	4.2	14	21	WSW (240)	100	0	
12/31/2021 12:00	4.4	14	23	WSW (243)	100	0	
12/31/2021 13:00	4.4	14	25	SW (218)	94	0	
12/31/2021 14:00	4.7	14	21	W (272)	94	0	
12/31/2021 15:00	4.7	9	18	SW (216)	91	0	
12/31/2021 16:00	4.6	5	12	SSE (148)	95	0	
12/31/2021 17:00	4.1	4	9	ESE (117)	100	0	
12/31/2021 18:00	4	8	15	ESE (106)	100	0	
12/31/2021 19:00	4.1	13	18	ESE (108)	100	0	
12/31/2021 20:00	4.2	13	18	ESE (114)	100	0	
12/31/2021 21:00	4.3	16	22	SE (125)	100	0	
12/31/2021 22:00	4.3	10	18	ENE (63)	100	0	
12/31/2021 23:00	4.2	11	17	NE (55)	100	0.4	
1/1/2022 0:00	4.2	10	18	ESE (117)	100	0.2	
1/1/2022 1:00	4.4	6	11	NW (318)	100	0	
1/1/2022 2:00	4	4	12	N (1)	100	0	
1/1/2022 3:00	3.8	6	13	NNW (329)	100	0	
1/1/2022 4:00	3.6	6	12	NNW (346)	100	0	
1/1/2022 5:00	3.4	11	21	NNW (344)	100	0	
1/1/2022 6:00	3.1	13	25	N (7)	100	0	
1/1/2022 7:00	2.9	16	26	N (0)	100	0	0.8
1/1/2022 8:00	2.8	18	28	NNE (15)	100	0	
1/1/2022 9:00	2.8	20	30	N (0)	100	0	
1/1/2022 10:00	2.7	19	31	NNW (342)	100	0	
1/1/2022 11:00	1.8	24	36	NNE (17)	100	0	
1/1/2022 12:00	1.5	24	37	NNE (12)	100	0	
1/1/2022 13:00	1.6	21	31	NNW (338)	96	0	
1/1/2022 14:00	1.2	26	40	N (9)	97	0	
1/1/2022 15:00	0.8	26	37	NNE (13)	91	0	
1/1/2022 16:00	0.4	24	34	N (0)	93	0	
1/1/2022 17:00	0.1	21	29	N (354)	100	0	
1/1/2022 18:00	-0.4	17	27	N (1)	100	0	
1/1/2022 19:00	-1	20	29	NW (324)	100	0	
1/1/2022 20:00	-1.5	21	32	N (1)	100	0	
1/1/2022 21:00	-1.9	22	35	NNE (30)	100	0	
1/1/2022 22:00	-2.4	21	34	NNE (16)	100	0	
1/1/2022 23:00	-2.8	23	33	NNE (13)	100	0	
1/2/2022 0:00	-3.2	24	34	N (1)	100	0	
1/2/2022 1:00	-3.4	22	31	NNE (13)	100	0	
1/2/2022 2:00	-3.7	18	26	N (349)	100	0	
1/2/2022 3:00	-3.6	20	31	N (8)	97	0	
1/2/2022 4:00	-4	21	34	N (5)	100	0	
1/2/2022 5:00	-4.3	20	33	N (354)	100	0	
1/2/2022 6:00	-5	24	34	N (2)	100	0	
1/2/2022 7:00	-5.8	21	30	N (9)	100	0	0
1/2/2022 8:00	-6.3	18	27	N (6)	100	0	
1/2/2022 9:00	-6	21	29	NNE (12)	94	0	
1/2/2022 10:00	-5.7	23	34	N (11)	92	0	
1/2/2022 11:00	-5.7	20	30	N (8)	90	0	
1/2/2022 12:00	-5.4	17	26	N (4)	95	0	
1/2/2022 13:00	-4.2	15	31	NNW (343)	95	0	
1/2/2022 14:00	-4	21	33	NNW (348)	81	0	
1/2/2022 15:00	-4.2	16	30	NW (324)	75	0	
1/2/2022 16:00	-4.5	18	29	NW (325)	78	0	
1/2/2022 17:00	-4.9	20	29	NW (315)	76	0	
1/2/2022 18:00	-5.3	18	28	NNW (333)	76	0	
1/2/2022 19:00	-5.4	16	29	NW (320)	73	0	
1/2/2022 20:00	-5.4	12	21	NW (320)	73	0	
1/2/2022 21:00	-6	10	17	ENE (75)	79	0	
1/2/2022 22:00	-7	7	12	E (82)	79	0	
1/2/2022 23:00	-7	2	9	SW (220)	79	0	
1/3/2022 0:00	-6.9	3	7	SE (138)	83	0	
1/3/2022 1:00	-6.9	3	6	E (97)	84	0	
1/3/2022 2:00	-6.7	7	12	ESE (112)	84	0	
1/3/2022 3:00	-6.8	10	13	ESE (123)	83	0	
1/3/2022 4:00	-6.7	8	10	SE (146)	83	0	
1/3/2022 5:00	-6.8	5	8	SSE (166)	82	0	
1/3/2022 6:00	-6.9	4	8	ESE (114)	83	0	
1/3/2022 7:00	-7	7	10	SW (218)	87	0	0
1/3/2022 8:00	-7.4	5	9	SSW (198)	82	0	
1/3/2022 9:00	-7.5	10	18	SE (145)	84	0	
1/3/2022 10:00	-7.4	13	19	SSE (159)	83	0	
1/3/2022 11:00	-6.7	10	14	SSE (156)	78	0	
1/3/2022 12:00	-6	7	11	SW (225)	74	0.6	
1/3/2022 13:00	-5.4	9	14	SW (216)	63	0.4	
1/3/2022 14:00	-5.2	10	17	SSW (211)	60	0	
1/3/2022 15:00	-5.1	11	19	SSW (201)	58	0	
1/3/2022 16:00	-5.6	9	18	S (179)	63	0	
1/3/2022 17:00	-6.7	8	14	S (178)	71	0	
1/3/2022 18:00	-7.5	10	18	S (179)	74	0	
1/3/2022 19:00	-7.3	12	18	SSW (192)	72	0	
1/3/2022 20:00	-6.8	13	22	S (186)	69	0	
1/3/2022 21:00	-7	10	18	S (169)	73	0	
1/3/2022 22:00	-6.9	10	17	SSE (166)	77	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/3/2022 23:00	-6.4	13	23	SSW (197)	79	0	
1/4/2022 0:00	-6.3	15	24	SSW (199)	80	0	
1/4/2022 1:00	-6.4	12	20	SW (229)	79	0	
1/4/2022 2:00	-6.3	12	19	WSW (246)	72	0	
1/4/2022 3:00	-6.5	9	15	SSW (207)	72	0	
1/4/2022 4:00	-6.8	9	15	SW (233)	73	0	
1/4/2022 5:00	-7.1	8	13	SW (229)	76	0	
1/4/2022 6:00	-7.2	6	10	SSW (196)	79	0	
1/4/2022 7:00	-7.7	10	14	SSE (163)	83	0	1
1/4/2022 8:00	-7.2	14	20	SW (216)	84	0	
1/4/2022 9:00	-4.4	17	29	SW (217)	79	0	
1/4/2022 10:00	-3	17	27	S (176)	78	0	
1/4/2022 11:00	-2	16	29	S (191)	74	0	
1/4/2022 12:00	-1	16	31	S (185)	70	0	
1/4/2022 13:00	-0.4	16	26	SSW (197)	66	0	
1/4/2022 14:00	-0.6	16	27	SSE (162)	71	0	
1/4/2022 15:00	-0.9	21	31	S (173)	76	0	
1/4/2022 16:00	-1	20	30	SSE (162)	78	0	
1/4/2022 17:00	-1.3	15	24	SSE (156)	78	0	
1/4/2022 18:00	-1.4	13	19	SSE (155)	78	0	
1/4/2022 19:00	-1.6	13	18	SE (134)	78	0	
1/4/2022 20:00	-1.4	15	21	SE (131)	78	0	
1/4/2022 21:00	-0.4	18	28	SE (136)	74	0	
1/4/2022 22:00	0.1	18	25	SSE (150)	73	0	
1/4/2022 23:00	0.7	20	29	SSE (147)	73	0	
1/5/2022 0:00	1.2	22	28	SE (140)	71	0	
1/5/2022 1:00	1.6	21	30	SSE (164)	71	0	
1/5/2022 2:00	2.5	23	38	SSE (164)	69	0	
1/5/2022 3:00	3	24	39	SSW (203)	68	0.2	
1/5/2022 4:00	3	23	44	SW (232)	70	0	
1/5/2022 5:00	2.4	23	38	SW (218)	74	0	
1/5/2022 6:00	2	21	35	SSW (192)	75	0	
1/5/2022 7:00	2	21	38	SSW (204)	76	0	0.2
1/5/2022 8:00	2	20	36	SSW (192)	75	0	
1/5/2022 9:00	2	23	44	S (191)	73	0	
1/5/2022 10:00	2.1	25	39	SSW (212)	73	0	
1/5/2022 11:00	1.4	24	40	S (187)	86	0	
1/5/2022 12:00	1.1	24	38	SW (218)	88	0	
1/5/2022 13:00	0.7	34	56	SSW (201)	79	0.2	
1/5/2022 14:00	-0.7	31	52	SW (220)	79	0	
1/5/2022 15:00	-1.6	37	56	WSW (242)	81	0	
1/5/2022 16:00	-3.4	39	65	SW (231)	72	0	
1/5/2022 17:00	-4.3	31	60	WSW (241)	69	0	
1/5/2022 18:00	-4.6	27	47	W (264)	73	0	
1/5/2022 19:00	-5.2	28	43	W (265)	71	0	
1/5/2022 20:00	-6.2	29	44	WSW (257)	71	0	
1/5/2022 21:00	-7.3	30	51	SW (234)	68	0	
1/5/2022 22:00	-8.5	26	45	WSW (244)	70	0	
1/5/2022 23:00	-9.1	26	42	SW (233)	70	0	
1/6/2022 0:00	-9.3	24	37	SW (232)	72	0	
1/6/2022 1:00	-8.9	29	42	SW (222)	75	0	
1/6/2022 2:00	-9	26	42	SW (231)	84	0	
1/6/2022 3:00	-9.1	22	33	SW (229)	83	0	
1/6/2022 4:00	-8.7	25	37	SW (230)	82	0	
1/6/2022 5:00	-8.3	25	36	SW (232)	78	0	
1/6/2022 6:00	-8.3	23	33	SW (217)	79	0	
1/6/2022 7:00	-8.4	22	32	SSW (211)	83	0	0.2
1/6/2022 8:00	-8.2	21	34	SW (224)	82	0	
1/6/2022 9:00	-7.9	23	35	SW (228)	80	0	
1/6/2022 10:00	-7.8	24	33	SW (236)	79	0	
1/6/2022 11:00	-6.9	24	33	SW (226)	76	0	
1/6/2022 12:00	-6.3	22	31	SSW (199)	78	0	
1/6/2022 13:00	-6.1	18	27	WSW (237)	80	0	
1/6/2022 14:00	-5.8	17	25	SW (231)	78	0	
1/6/2022 15:00	-5.9	15	23	SSW (195)	77	0	
1/6/2022 16:00	-6	13	19	SW (216)	80	0	
1/6/2022 17:00	-6.1	13	20	SW (226)	80	0	
1/6/2022 18:00	-6.5	11	16	WSW (244)	83	0	
1/6/2022 19:00	-7.4	9	15	SW (225)	86	0	
1/6/2022 20:00	-7.9	8	13	S (188)	88	0	
1/6/2022 21:00	-7.5	9	14	SW (228)	90	0	
1/6/2022 22:00	-7.3	14	23	W (270)	90	0	
1/6/2022 23:00	-8	13	18	W (272)	86	0	
1/7/2022 0:00	-8	15	21	W (268)	85	0	
1/7/2022 1:00	-8.3	16	24	W (264)	82	0	
1/7/2022 2:00	-8.9	19	26	W (262)	84	0	
1/7/2022 3:00	-9.4	20	28	W (278)	86	0	
1/7/2022 4:00	-10.4	18	28	W (266)	84	0	
1/7/2022 5:00	-11.6	21	29	W (259)	82	0	
1/7/2022 6:00	-11.7	21	29	W (261)	83	0	
1/7/2022 7:00	-11.2	19	30	W (281)	82	0	0
1/7/2022 8:00	-11.4	18	28	W (272)	82	0	
1/7/2022 9:00	-11.5	19	26	WSW (248)	82	0	
1/7/2022 10:00	-11.1	21	29	WSW (254)	83	0	
1/7/2022 11:00	-10.6	21	30	W (266)	81	0	
1/7/2022 12:00	-9.4	21	34	W (276)	80	0	
1/7/2022 13:00	-9	23	36	WNW (295)	75	0	
1/7/2022 14:00	-8.8	23	38	WNW (289)	68	0	
1/7/2022 15:00	-9.1	23	34	WNW (284)	68	0	
1/7/2022 16:00	-9.6	17	26	WNW (285)	73	0	
1/7/2022 17:00	-9.6	18	28	WNW (295)	73	0	
1/7/2022 18:00	-10.3	15	27	W (263)	72	0	
1/7/2022 19:00	-12.5	10	14	WSW (241)	73	0	
1/7/2022 20:00	-13.6	10	13	SW (222)	77	0	
1/7/2022 21:00	-14	10	14	SW (221)	75	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/7/2022 22:00	-14.4	10	13	SW (236)	74	0	
1/7/2022 23:00	-14.6	12	16	SW (236)	71	0	
1/8/2022 0:00	-14.4	9	11	SW (218)	71	0	
1/8/2022 1:00	-14.8	9	13	SW (216)	73	0	
1/8/2022 2:00	-14.9	8	11	SW (224)	73	0	
1/8/2022 3:00	-14.2	6	9	SSW (210)	73	0	
1/8/2022 4:00	-13	6	11	S (175)	66	0	
1/8/2022 5:00	-13.8	11	13	SSE (154)	70	0	
1/8/2022 6:00	-14.6	14	20	SE (129)	72	0	
1/8/2022 7:00	-13.4	14	20	ESE (122)	71	0	0
1/8/2022 8:00	-11.8	16	20	SE (138)	67	0	
1/8/2022 9:00	-9.3	17	23	SSE (150)	69	0	
1/8/2022 10:00	-5.8	22	30	SE (127)	69	0	
1/8/2022 11:00	-4	28	42	S (169)	69	0	
1/8/2022 12:00	-3.1	28	39	SSE (167)	60	0	
1/8/2022 13:00	-2.9	29	42	SSE (152)	65	0	
1/8/2022 14:00	-2.7	31	43	SSE (158)	65	0	
1/8/2022 15:00	-2.5	27	39	SSE (149)	63	0	
1/8/2022 16:00	-2.5	23	37	SSE (155)	66	0	
1/8/2022 17:00	-2.1	24	32	SE (145)	66	0	
1/8/2022 18:00	-1.6	21	29	SSE (162)	66	0	
1/8/2022 19:00	-0.4	20	33	S (175)	64	0	
1/8/2022 20:00	0.7	21	37	SSW (203)	57	0	
1/8/2022 21:00	0.3	21	36	S (186)	79	0	
1/8/2022 22:00	-0.3	19	38	SSE (166)	100	0	
1/8/2022 23:00	-0.1	19	35	S (185)	100	0	
1/9/2022 0:00	0.3	20	34	SSW (208)	100	0	
1/9/2022 1:00	0.4	20	32	SSE (158)	100	0	
1/9/2022 2:00	0.5	16	26	SSE (151)	100	0	
1/9/2022 3:00	0.7	14	24	SSW (198)	100	0	
1/9/2022 4:00	1	16	26	SSW (213)	100	0	
1/9/2022 5:00	1.3	21	38	SSW (206)	100	0	
1/9/2022 6:00	1.3	21	33	SW (222)	100	0.2	
1/9/2022 7:00	1.3	21	29	WSW (241)	100	0	0.2
1/9/2022 8:00	1.4	19	26	SW (230)	100	0	
1/9/2022 9:00	1.4	21	30	W (268)	100	0	
1/9/2022 10:00	1.1	23	41	W (281)	100	0	
1/9/2022 11:00	1	25	39	W (280)	86	0	
1/9/2022 12:00	0.6	25	40	W (272)	72	0	
1/9/2022 13:00	0.5	27	44	W (279)	70	0	
1/9/2022 14:00	0.2	28	44	WNW (290)	67	0	
1/9/2022 15:00	-0.9	34	51	WNW (301)	68	0	
1/9/2022 16:00	-2.5	35	51	WNW (294)	72	0	
1/9/2022 17:00	-4.2	31	46	W (276)	59	0	
1/9/2022 18:00	-5.6	32	50	NW (312)	56	0	
1/9/2022 19:00	-6.7	29	46	W (272)	60	0	
1/9/2022 20:00	-7.5	28	43	WNW (288)	64	0	
1/9/2022 21:00	-8.1	25	44	NW (307)	66	0	
1/9/2022 22:00	-9	28	46	NW (307)	63	0.2	
1/9/2022 23:00	-9.5	27	43	WNW (284)	63	0	
1/10/2022 0:00	-10.3	24	33	W (262)	69	0	
1/10/2022 1:00	-10.6	22	34	W (281)	70	0	
1/10/2022 2:00	-10.6	23	36	W (266)	70	0	
1/10/2022 3:00	-10.6	28	41	W (266)	70	0	
1/10/2022 4:00	-10.9	26	39	W (266)	69	0	
1/10/2022 5:00	-11.3	26	35	W (265)	69	0	
1/10/2022 6:00	-11.8	25	38	W (277)	69	0	
1/10/2022 7:00	-11.9	23	33	W (265)	69	0	0.2
1/10/2022 8:00	-11.9	26	39	WSW (254)	68	0	
1/10/2022 9:00	-11.5	29	43	W (271)	68	0	
1/10/2022 10:00	-11	30	44	W (274)	67	0	
1/10/2022 11:00	-10.6	28	41	WNW (297)	64	0	
1/10/2022 12:00	-10.1	25	37	W (272)	62	0	
1/10/2022 13:00	-9.6	27	39	WNW (287)	61	0	
1/10/2022 14:00	-9.8	26	40	NW (316)	64	0	
1/10/2022 15:00	-10	26	40	WNW (301)	65	0	
1/10/2022 16:00	-10.7	29	46	WNW (301)	68	0	
1/10/2022 17:00	-11.2	29	46	WNW (284)	68	0	
1/10/2022 18:00	-11.3	29	48	WNW (289)	68	0	
1/10/2022 19:00	-11.5	27	44	W (276)	61	0	
1/10/2022 20:00	-11.9	30	49	W (278)	63	0	
1/10/2022 21:00	-11.8	30	45	NW (304)	65	0	
1/10/2022 22:00	-11.8	30	44	WNW (293)	73	0	
1/10/2022 23:00	-12.2	27	40	W (281)	78	0	
1/11/2022 0:00	-12.2	22	36	WNW (283)	80	0	
1/11/2022 1:00	-12.2	18	29	W (279)	82	0	
1/11/2022 2:00	-12.2	16	28	W (271)	81	0	
1/11/2022 3:00	-12.2	17	26	WNW (282)	77	0	
1/11/2022 4:00	-12.6	19	27	WSW (253)	73	0	
1/11/2022 5:00	-13.2	19	31	SSW (212)	71	0	
1/11/2022 6:00	-13.3	17	27	WSW (241)	70	0	
1/11/2022 7:00	-13.4	18	24	WSW (257)	70	0	0
1/11/2022 8:00	-13.5	15	24	W (265)	69	0	
1/11/2022 9:00	-13.3	10	17	SW (230)	68	0	
1/11/2022 10:00	-12.6	11	20	WSW (238)	66	0	
1/11/2022 11:00	-11.5	16	26	SW (220)	60	0	
1/11/2022 12:00	-10.7	16	28	SSW (200)	64	0	
1/11/2022 13:00	-10.1	16	25	S (181)	61	0	
1/11/2022 14:00	-9.4	17	29	S (178)	58	0	
1/11/2022 15:00	-8.3	23	34	SSE (165)	62	0	
1/11/2022 16:00	-7.8	25	40	S (180)	67	0	
1/11/2022 17:00	-8.1	24	34	SSE (154)	74	0	
1/11/2022 18:00	-7.5	27	42	S (169)	73	0	
1/11/2022 19:00	-6.1	29	39	S (171)	69	0	
1/11/2022 20:00	-4.5	33	49	S (172)	64	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/11/2022 21:00	-3.9	26	47	S (190)	63	0	
1/11/2022 22:00	-3.6	25	41	SSW (212)	63	0	
1/11/2022 23:00	-3.8	27	42	SSW (202)	65	0	
1/12/2022 0:00	-3.8	25	38	SW (224)	65	0	
1/12/2022 1:00	-3.5	25	37	SSW (208)	65	0	
1/12/2022 2:00	-3.4	22	36	SW (222)	66	0	
1/12/2022 3:00	-3	22	33	S (190)	68	0	
1/12/2022 4:00	-2.5	22	31	SW (223)	69	0	
1/12/2022 5:00	-2.1	20	32	SW (224)	72	0	
1/12/2022 6:00	-1.7	18	28	SW (233)	74	0	
1/12/2022 7:00	-1.4	16	24	WSW (238)	75	0	0
1/12/2022 8:00	-1.2	16	24	WSW (243)	77	0	
1/12/2022 9:00	-0.7	14	22	WSW (240)	78	0	
1/12/2022 10:00	-0.3	14	22	SW (225)	79	0	
1/12/2022 11:00	0	14	19	WSW (247)	79	0	
1/12/2022 12:00	0.6	13	19	WSW (252)	79	0	
1/12/2022 13:00	0.9	10	17	SW (228)	79	0	
1/12/2022 14:00	0.9	8	12	W (265)	80	0	
1/12/2022 15:00	0.9	6	11	WNW (282)	81	0	
1/12/2022 16:00	0.7	4	8	NW (310)	82	0	
1/12/2022 17:00	0.4	3	6	NNE (13)	83	0	
1/12/2022 18:00	0.2	1	3	ENE (64)	86	0	
1/12/2022 19:00	0	6	9	E (80)	89	0	
1/12/2022 20:00	-0.4	7	10	ESE (113)	100	0	
1/12/2022 21:00	-0.7	7	11	ESE (110)	100	0	
1/12/2022 22:00	-0.9	8	12	ESE (108)	100	0	
1/12/2022 23:00	-0.9	8	11	ESE (112)	100	0	
1/13/2022 0:00	-0.9	9	12	ESE (120)	100	0	
1/13/2022 1:00	-0.8	8	10	ESE (107)	100	0	
1/13/2022 2:00	-0.7	8	13	ESE (110)	100	0	
1/13/2022 3:00	-0.7	6	9	SE (126)	100	0	
1/13/2022 4:00	-0.6	5	10	SSE (157)	100	0	
1/13/2022 5:00	-0.5	1	5	SSE (147)	100	0	
1/13/2022 6:00	-0.6	1	6	NNW (344)	100	0	
1/13/2022 7:00	-0.6	3	7	N (3)	100	0	0
1/13/2022 8:00	-0.6	2	7	N (11)	100	0	
1/13/2022 9:00	-0.7	10	18	NNE (21)	100	0	
1/13/2022 10:00	-0.8	9	15	NNE (24)	100	0.2	
1/13/2022 11:00	-0.8	9	13	NE (50)	100	0	
1/13/2022 12:00	-0.6	7	13	NW (319)	100	0	
1/13/2022 13:00	-0.7	8	14	NW (314)	100	0	
1/13/2022 14:00	-0.1	8	15	NNE (21)	100	0	
1/13/2022 15:00	0.1	8	15	N (1)	88	0	
1/13/2022 16:00	-0.2	9	17	NNW (327)	81	0	
1/13/2022 17:00	-0.4	11	20	N (3)	82	0	
1/13/2022 18:00	-0.8	9	16	NNE (24)	81	0	
1/13/2022 19:00	-1	11	20	NW (314)	81	0	
1/13/2022 20:00	-1.3	11	20	N (350)	78	0	
1/13/2022 21:00	-1.7	11	20	NNW (344)	77	0	
1/13/2022 22:00	-1.9	9	14	WNW (301)	81	0	
1/13/2022 23:00	-2.2	6	13	NW (320)	85	0	
1/14/2022 0:00	-1.9	3	7	NE (38)	86	0	
1/14/2022 1:00	-1.7	1	6	N (0)	87	0	
1/14/2022 2:00	-1.5	4	12	N (352)	86	0	
1/14/2022 3:00	-1.4	8	23	NW (322)	92	0	
1/14/2022 4:00	-1.3	11	19	NNW (327)	100	0	
1/14/2022 5:00	-1.2	10	26	NNE (28)	100	0	
1/14/2022 6:00	-1.4	18	30	N (5)	100	0	
1/14/2022 7:00	-3.2	25	38	NNE (12)	98	0	0.2
1/14/2022 8:00	-4.9	24	34	N (9)	98	0	
1/14/2022 9:00	-6.2	24	35	N (7)	96	0	
1/14/2022 10:00	-6.7	23	34	NNW (344)	94	0	
1/14/2022 11:00	-6.7	22	32	N (10)	84	0	
1/14/2022 12:00	-7.1	19	28	N (8)	80	0	
1/14/2022 13:00	-7.4	19	28	NW (326)	79	0	
1/14/2022 14:00	-7.9	19	30	NNE (22)	79	0	
1/14/2022 15:00	-8.5	22	32	N (7)	71	0	
1/14/2022 16:00	-9.8	20	31	N (7)	67	0	
1/14/2022 17:00	-11.1	16	26	NNE (25)	63	0	
1/14/2022 18:00	-12.3	19	32	NNE (12)	66	0	
1/14/2022 19:00	-13.2	19	27	NE (35)	67	0	
1/14/2022 20:00	-14	17	26	NNE (27)	70	0	
1/14/2022 21:00	-14.6	16	26	NNE (24)	72	0	
1/14/2022 22:00	-15	12	20	NE (39)	74	0	
1/14/2022 23:00	-15.4	13	19	NNE (33)	74	0	
1/15/2022 0:00	-15.9	15	22	NNE (28)	74	0	
1/15/2022 1:00	-16.3	15	22	NE (51)	69	0	
1/15/2022 2:00	-17	16	23	ENE (59)	64	0	
1/15/2022 3:00	-17.6	16	26	NE (55)	60	0	
1/15/2022 4:00	-18.1	14	23	ENE (66)	62	0	
1/15/2022 5:00	-18.6	12	20	NE (44)	63	0	
1/15/2022 6:00	-18.8	14	21	ENE (57)	63	0	
1/15/2022 7:00	-18.7	15	21	ENE (67)	64	0	0
1/15/2022 8:00	-18.6	15	22	ENE (60)	63	0	
1/15/2022 9:00	-18	15	21	ENE (68)	64	0	
1/15/2022 10:00	-16.7	11	16	ENE (57)	64	0	
1/15/2022 11:00	-15.2	12	18	NE (45)	61	0	
1/15/2022 12:00	-14	12	18	ENE (61)	57	0	
1/15/2022 13:00	-13.1	11	16	NNE (18)	55	0	
1/15/2022 14:00	-12.6	11	18	NNE (20)	55	0	
1/15/2022 15:00	-12.5	10	17	NE (44)	54	0	
1/15/2022 16:00	-12.4	10	14	NE (54)	57	0	
1/15/2022 17:00	-13.6	9	13	NE (48)	64	0	
1/15/2022 18:00	-14.7	7	10	ENE (65)	66	0	
1/15/2022 19:00	-15.3	7	9	NE (51)	67	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/15/2022 20:00	-15.6	9	12	ENE (71)	67	0	
1/15/2022 21:00	-15.3	10	15	E (95)	68	0	
1/15/2022 22:00	-14.5	14	19	ESE (110)	71	0	
1/15/2022 23:00	-14.8	12	16	ESE (107)	75	0	
1/16/2022 0:00	-14.9	10	14	ENE (77)	75	0	
1/16/2022 1:00	-15.7	7	11	E (84)	77	0	
1/16/2022 2:00	-15.5	8	12	E (99)	77	0	
1/16/2022 3:00	-15.4	6	10	SSE (150)	77	0	
1/16/2022 4:00	-14.6	9	16	ESE (108)	80	0	
1/16/2022 5:00	-12.8	15	20	ENE (72)	86	0	
1/16/2022 6:00	-12	16	20	E (86)	87	0	
1/16/2022 7:00	-13.5	10	18	ESE (104)	86	0	0
1/16/2022 8:00	-14.2	8	14	ESE (111)	84	0	
1/16/2022 9:00	-12.7	12	17	E (79)	84	0	
1/16/2022 10:00	-10.2	16	24	E (92)	88	0	
1/16/2022 11:00	-8	15	23	ESE (114)	86	0	
1/16/2022 12:00	-5.6	14	21	SE (128)	68	0	
1/16/2022 13:00	-4.1	11	19	ESE (112)	62	0	
1/16/2022 14:00	-3.3	9	15	ESE (107)	58	0	
1/16/2022 15:00	-3	13	20	ESE (111)	56	0	
1/16/2022 16:00	-2.9	17	24	ESE (107)	57	0	
1/16/2022 17:00	-4.9	7	9	E (90)	71	0	
1/16/2022 18:00	-5.7	3	6	E (87)	71	0	
1/16/2022 19:00	-5.2	8	11	E (82)	74	0	
1/16/2022 20:00	-4.8	11	17	NE (54)	65	0	
1/16/2022 21:00	-5.6	9	14	NE (46)	73	0	
1/16/2022 22:00	-5.3	10	15	ENE (77)	69	0	
1/16/2022 23:00	-5	9	14	NNE (14)	72	0	
1/17/2022 0:00	-5.3	11	17	N (6)	73	0	
1/17/2022 1:00	-5.4	14	20	NNE (22)	75	0	
1/17/2022 2:00	-5.3	14	23	N (2)	77	0	
1/17/2022 3:00	-4.5	18	31	N (5)	81	0	
1/17/2022 4:00	-4.1	21	38	NNW (333)	81	0	
1/17/2022 5:00	-3.9	19	29	NNW (333)	64	0	
1/17/2022 6:00	-3.8	19	32	N (0)	61	0	
1/17/2022 7:00	-3.6	21	33	NNW (337)	74	0	0
1/17/2022 8:00	-3.1	21	34	N (352)	80	0	
1/17/2022 9:00	-2.7	20	37	NW (308)	80	0	
1/17/2022 10:00	-1.9	25	43	NNW (328)	74	0	
1/17/2022 11:00	-1.7	29	47	N (2)	70	0	
1/17/2022 12:00	-1.7	31	49	NW (315)	69	0	
1/17/2022 13:00	-1.8	39	57	NW (319)	67	0	
1/17/2022 14:00	-3.1	26	32	NW (305)	91	0	
1/17/2022 15:00							
1/17/2022 16:00	-3.1	31	46	WNW (291)	91	0	
1/17/2022 17:00	-3.1	31	42	WNW (294)	82	0	
1/17/2022 18:00	-2.8	29	40	WNW (289)	73	0	
1/17/2022 19:00	-2.2	28	39	NW (309)	70	0	
1/17/2022 20:00	-2	27	41	NW (306)	70	0	
1/17/2022 21:00	-2	23	33	WNW (287)	74	0	
1/17/2022 22:00	-2.2	26	39	W (278)	77	0	
1/17/2022 23:00	-2.4	28	46	WNW (295)	71	0	
1/18/2022 0:00	-2.6	23	33	WNW (290)	72	0	
1/18/2022 1:00	-2.9	24	37	WNW (293)	73	0	
1/18/2022 2:00	-3	22	34	WNW (295)	73	0	
1/18/2022 3:00	-3.1	19	32	W (278)	74	0	
1/18/2022 4:00	-3.4	16	24	WNW (284)	76	0	
1/18/2022 5:00	-3.5	13	24	WSW (244)	77	0	
1/18/2022 6:00	-3.6	15	20	W (269)	77	0	
1/18/2022 7:00	-3.6	13	20	W (262)	78	0	0
1/18/2022 8:00	-3.4	11	15	W (270)	79	0	
1/18/2022 9:00	-3	12	20	W (264)	79	0	
1/18/2022 10:00	-2.4	14	23	W (270)	79	0	
1/18/2022 11:00	-1.9	13	19	WNW (286)	77	0	
1/18/2022 12:00	-1.6	8	14	WNW (302)	72	0	
1/18/2022 13:00	-1.5	6	13	N (353)	77	0	
1/18/2022 14:00	-0.6	10	19	S (177)	75	0	
1/18/2022 15:00	-0.3	14	25	S (191)	74	0	
1/18/2022 16:00	-0.9	16	30	SSE (162)	74	0	
1/18/2022 17:00	-1.7	20	33	S (177)	78	0	
1/18/2022 18:00	-2.2	21	32	SSE (160)	80	0	
1/18/2022 19:00	-2	24	40	S (174)	80	0	
1/18/2022 20:00	-1.4	28	42	SSE (163)	76	0	
1/18/2022 21:00	-1.2	30	42	SSE (151)	74	0	
1/18/2022 22:00	-1	28	42	S (170)	73	0	
1/18/2022 23:00	-0.4	27	41	SSE (158)	73	0	
1/19/2022 0:00	0.1	25	43	SSE (162)	72	0	
1/19/2022 1:00	0.4	26	43	SSW (192)	73	0	
1/19/2022 2:00	0.6	28	46	SSW (207)	75	0	
1/19/2022 3:00	0.8	27	41	SSW (208)	76	0	
1/19/2022 4:00	1.2	26	42	SW (227)	77	0	
1/19/2022 5:00	1.5	20	32	SSW (210)	79	0	
1/19/2022 6:00	1.8	17	28	SSW (213)	79	0	
1/19/2022 7:00	2.2	15	24	SW (214)	80	0	0
1/19/2022 8:00	2.1	11	19	SW (217)	82	0	
1/19/2022 9:00	2.5	10	20	WNW (291)	82	0	
1/19/2022 10:00	3.7	24	46	W (261)	75	0	
1/19/2022 11:00	3.4	25	42	W (261)	64	0	
1/19/2022 12:00	3.3	23	36	NW (316)	63	0	
1/19/2022 13:00	1.8	27	40	WNW (301)	70	0	
1/19/2022 14:00	1.2	29	44	NW (310)	65	0	
1/19/2022 15:00	-0.2	27	43	WNW (300)	67	0	
1/19/2022 16:00	-1.2	27	38	WNW (293)	67	0	
1/19/2022 17:00	-2.7	32	46	NW (306)	73	0	
1/19/2022 18:00	-4.1	31	47	NW (314)	71	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/19/2022 19:00	-4.9	30	43	NW (314)	66	0	
1/19/2022 20:00	-5.6	27	40	WNW (286)	63	0	
1/19/2022 21:00	-5.7	23	32	WNW (300)	64	0	
1/19/2022 22:00	-5.7	25	35	NNW (332)	64	0	
1/19/2022 23:00	-6.4	25	37	NW (313)	74	0	
1/20/2022 0:00	-6.7	24	34	NW (310)	66	0	
1/20/2022 1:00	-7.3	24	35	NNW (330)	65	0	
1/20/2022 2:00	-7.6	24	38	WNW (303)	66	0	
1/20/2022 3:00	-7.8	25	37	NW (319)	67	0	
1/20/2022 4:00	-8	27	40	WNW (296)	68	0	
1/20/2022 5:00	-8.2	26	38	NW (309)	69	0	
1/20/2022 6:00	-8.1	25	35	NW (322)	71	0	
1/20/2022 7:00	-10	12	26	ENE (68)	84	0	0
1/20/2022 8:00	-11.1	10	15	E (79)	83	0	
1/20/2022 9:00	-11.3	8	12	ESE (114)	80	0	
1/20/2022 10:00	-11	7	10	ESE (123)	77	0	
1/20/2022 11:00	-10.5	6	10	E (90)	74	0	
1/20/2022 12:00	-10.2	7	11	E (80)	78	0	
1/20/2022 13:00	-9.8	4	8	NNW (344)	79	0	
1/20/2022 14:00	-9.3	10	22	NNW (328)	76	0	
1/20/2022 15:00	-9.3	12	24	NW (319)	74	0	
1/20/2022 16:00	-9.4	21	30	NW (310)	67	0	
1/20/2022 17:00	-9.7	17	26	WNW (300)	64	0	
1/20/2022 18:00	-9.8	14	24	WNW (300)	65	0	
1/20/2022 19:00	-10.4	10	14	ESE (123)	81	0	
1/20/2022 20:00	-10.8	9	12	E (101)	82	0	
1/20/2022 21:00	-10.9	9	13	ESE (117)	80	0	
1/20/2022 22:00	-10.7	9	12	SE (129)	79	0	
1/20/2022 23:00	-10.4	9	13	SSW (209)	79	0	
1/21/2022 0:00	-10.3	6	13	SW (235)	79	0	
1/21/2022 1:00	-10.4	6	11	WSW (248)	76	0	
1/21/2022 2:00	-10.2	6	14	W (267)	76	0	
1/21/2022 3:00	-10	9	14	WSW (258)	72	0	
1/21/2022 4:00	-9.9	9	14	WSW (247)	72	0	
1/21/2022 5:00	-9.9	7	11	WSW (238)	71	0	
1/21/2022 6:00	-9.8	3	6	SE (128)	72	0	
1/21/2022 7:00	-9.7	6	11	SE (136)	74	0	0
1/21/2022 8:00	-10.3	15	20	SE (133)	78	0	
1/21/2022 9:00	-10.8	16	22	SE (128)	76	0	
1/21/2022 10:00	-10.7	17	22	SE (132)	70	0	
1/21/2022 11:00	-10.1	14	19	SE (132)	68	0	
1/21/2022 12:00	-9.1	14	19	SE (134)	67	0	
1/21/2022 13:00	-8.4	10	16	ESE (103)	64	0	
1/21/2022 14:00	-8.5	11	17	ESE (114)	62	0	
1/21/2022 15:00	-8.2	13	19	SE (132)	63	0	
1/21/2022 16:00	-8.3	15	20	SE (133)	66	0	
1/21/2022 17:00	-8.8	16	21	SE (140)	68	0	
1/21/2022 18:00	-9.5	13	20	SE (132)	71	0	
1/21/2022 19:00	-11.7	13	16	ESE (122)	74	0	
1/21/2022 20:00	-12.6	14	17	ESE (121)	74	0	
1/21/2022 21:00	-13.2	14	18	SE (124)	74	0	
1/21/2022 22:00	-13.5	16	20	ESE (120)	74	0	
1/21/2022 23:00	-13.3	14	18	ESE (118)	74	0	
1/22/2022 0:00	-12.6	16	22	ESE (118)	74	0	
1/22/2022 1:00	-13.1	13	16	SE (137)	77	0	
1/22/2022 2:00	-13.3	15	19	SE (124)	79	0	
1/22/2022 3:00	-13.3	16	20	SE (135)	81	0	
1/22/2022 4:00	-13.1	12	18	SSE (168)	84	0	
1/22/2022 5:00	-12.2	11	15	S (191)	83	0	
1/22/2022 6:00	-10.8	14	25	SSW (208)	78	0	
1/22/2022 7:00	-10.3	17	27	SSW (204)	68	0	0
1/22/2022 8:00	-10.1	16	29	S (188)	69	0	
1/22/2022 9:00	-9.2	20	33	SSW (201)	68	0	
1/22/2022 10:00	-8.4	21	37	SSW (213)	69	0	
1/22/2022 11:00	-7.3	23	39	SSW (196)	67	0	
1/22/2022 12:00	-6.6	26	42	SW (223)	65	0	
1/22/2022 13:00	-7	27	38	SW (220)	73	0	
1/22/2022 14:00	-6.5	27	43	SSW (206)	73	0	
1/22/2022 15:00	-6.2	26	39	SW (217)	77	0	
1/22/2022 16:00	-5.9	24	38	SSW (212)	75	0	
1/22/2022 17:00	-5.9	20	31	SSW (202)	74	0	
1/22/2022 18:00	-5.6	19	30	WSW (237)	73	0	
1/22/2022 19:00	-5.3	20	30	WSW (239)	74	0	
1/22/2022 20:00	-5	23	35	SW (234)	76	0	
1/22/2022 21:00	-4.7	18	31	W (269)	74	0	
1/22/2022 22:00	-4.6	16	23	W (268)	75	0	
1/22/2022 23:00	-4.8	11	21	WNW (301)	82	0	
1/23/2022 0:00	-5.1	10	21	W (279)	85	0	
1/23/2022 1:00	-5.5	9	16	WNW (286)	84	0	
1/23/2022 2:00	-5.8	12	20	WNW (295)	86	0	
1/23/2022 3:00	-6.2	10	17	NW (306)	84	0	
1/23/2022 4:00	-6.5	12	19	WNW (298)	84	0	
1/23/2022 5:00	-7.1	11	15	NW (315)	86	0	
1/23/2022 6:00	-7.4	8	13	NW (308)	91	0	
1/23/2022 7:00	-7.5	5	9	NW (313)	95	0	0
1/23/2022 8:00	-7.5	4	6	NW (318)	94	0	
1/23/2022 9:00	-7.2	6	14	NW (316)	93	0	
1/23/2022 10:00	-6.9	10	20	NW (309)	86	0	
1/23/2022 11:00	-6.9	11	19	N (0)	86	0	
1/23/2022 12:00	-8	18	30	NE (52)	83	0	
1/23/2022 13:00	-8.9	18	29	NNE (30)	69	0	
1/23/2022 14:00	-8.6	15	23	NNE (33)	62	0	
1/23/2022 15:00	-9	15	23	NE (40)	61	0	
1/23/2022 16:00	-9.4	14	22	NNE (33)	67	0	
1/23/2022 17:00	-10.4	13	22	NE (43)	69	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/23/2022 18:00	-10.6	7	13	NE (52)	69	0	
1/23/2022 19:00	-10.7	6	11	ESE (117)	70	0	
1/23/2022 20:00	-10.8	1	5	W (262)	67	0	
1/23/2022 21:00	-10.9	2	5	SSE (152)	72	0	
1/23/2022 22:00	-11.1	6	10	SSE (163)	76	0	
1/23/2022 23:00	-11.6	9	13	SSE (161)	76	0	
1/24/2022 0:00	-12.8	13	18	SSE (150)	78	0	
1/24/2022 1:00	-13.3	13	18	SSE (162)	80	0	
1/24/2022 2:00	-13	11	16	SSE (161)	79	0	
1/24/2022 3:00	-12.8	11	15	SSE (155)	80	0	
1/24/2022 4:00	-13	11	15	SSE (151)	79	0	
1/24/2022 5:00	-12.3	9	14	S (174)	79	0	
1/24/2022 6:00	-11.2	9	14	SSE (158)	79	0	
1/24/2022 7:00	-10.8	13	17	SSE (154)	79	0	0
1/24/2022 8:00	-10.3	15	23	S (170)	78	0	
1/24/2022 9:00	-10	15	22	S (180)	83	0	
1/24/2022 10:00	-9	13	23	SSE (165)	81	0	
1/24/2022 11:00	-8.2	15	22	SSE (168)	82	0	
1/24/2022 12:00	-7.5	13	20	S (182)	83	0	
1/24/2022 13:00	-7.3	15	27	S (171)	83	0	
1/24/2022 14:00	-6.9	16	22	S (169)	83	0	
1/24/2022 15:00	-6.5	11	17	S (179)	87	0	
1/24/2022 16:00	-6.4	7	14	S (190)	90	0	
1/24/2022 17:00	-6.5	7	12	SSW (206)	92	0	
1/24/2022 18:00	-7.2	5	8	WSW (257)	99	0	
1/24/2022 19:00	-7.5	6	9	WNW (282)	100	0	
1/24/2022 20:00	-7.5	7	12	W (271)	100	0	
1/24/2022 21:00	-7.1	10	19	WNW (292)	100	0	
1/24/2022 22:00	-7	14	20	NW (306)	89	0	
1/24/2022 23:00	-7.1	14	21	WNW (299)	90	0	
1/25/2022 0:00	-7	17	25	WNW (299)	90	0	
1/25/2022 1:00	-7	20	28	WNW (299)	83	0	
1/25/2022 2:00	-7.2	25	37	NW (314)	77	0	
1/25/2022 3:00	-7.9	22	31	WNW (290)	73	0	
1/25/2022 4:00	-9.4	17	26	WNW (298)	66	0	
1/25/2022 5:00	-10.4	16	22	WNW (303)	68	0	
1/25/2022 6:00	-12.1	11	17	WSW (251)	68	0	
1/25/2022 7:00	-14.2	13	17	WSW (238)	81	0	0
1/25/2022 8:00	-14.2	11	15	WSW (238)	80	0	
1/25/2022 9:00	-13.3	12	17	WSW (254)	73	0	
1/25/2022 10:00	-11.8	17	23	WSW (247)	72	0	
1/25/2022 11:00	-9.6	18	30	WNW (298)	71	0	
1/25/2022 12:00	-9	18	26	WNW (294)	65	0	
1/25/2022 13:00	-8.7	16	24	W (278)	64	0	
1/25/2022 14:00	-8.6	16	26	W (281)	59	0	
1/25/2022 15:00	-8.8	15	26	WNW (300)	52	0	
1/25/2022 16:00	-9	12	22	WNW (283)	59	0	
1/25/2022 17:00	-9.3	9	17	W (281)	63	0	
1/25/2022 18:00	-9.5	12	21	WSW (253)	62	0	
1/25/2022 19:00	-10.1	7	13	SSW (207)	63	0	
1/25/2022 20:00	-10.2	9	13	SW (230)	67	0	
1/25/2022 21:00	-10.5	4	10	SSW (194)	67	0	
1/25/2022 22:00	-10.4	4	9	SSW (210)	65	0	
1/25/2022 23:00	-10.7	8	13	SW (232)	65	0	
1/26/2022 0:00	-10.7	9	12	WSW (247)	69	0	
1/26/2022 1:00	-10.8	9	13	WSW (254)	76	0	
1/26/2022 2:00	-10.7	14	20	W (278)	80	0	
1/26/2022 3:00	-11	15	24	NW (308)	82	0	
1/26/2022 4:00	-11.2	14	22	W (273)	74	0	
1/26/2022 5:00	-11.8	14	22	W (281)	66	0	
1/26/2022 6:00	-13.2	12	19	WNW (292)	72	0	
1/26/2022 7:00	-13.4	14	19	W (260)	76	0	0
1/26/2022 8:00	-14.4	11	17	WSW (256)	77	0	
1/26/2022 9:00	-14.5	10	15	WSW (253)	77	0	
1/26/2022 10:00	-13.3	12	17	SW (232)	71	0	
1/26/2022 11:00	-12.5	13	19	W (269)	68	0	
1/26/2022 12:00	-11.2	15	21	WSW (254)	65	0	
1/26/2022 13:00	-10.2	15	21	W (262)	59	0	
1/26/2022 14:00	-9.8	11	17	SSW (202)	52	0	
1/26/2022 15:00	-9.9	10	16	SSW (211)	54	0	
1/26/2022 16:00	-10.4	9	18	SW (220)	56	0	
1/26/2022 17:00	-11.8	10	15	SSE (157)	61	0	
1/26/2022 18:00	-13	11	17	SSE (164)	66	0	
1/26/2022 19:00	-14	13	17	S (189)	70	0	
1/26/2022 20:00	-13.5	13	20	SSW (198)	71	0	
1/26/2022 21:00	-13.9	12	19	S (170)	66	0	
1/26/2022 22:00	-14.3	12	22	SSW (193)	68	0	
1/26/2022 23:00	-14.3	16	26	S (180)	69	0	
1/27/2022 0:00	-14.4	14	23	SSE (160)	72	0	
1/27/2022 1:00	-14.2	16	26	SSW (197)	72	0	
1/27/2022 2:00	-13.8	18	27	SW (219)	68	0	
1/27/2022 3:00	-13	17	28	SW (216)	67	0	
1/27/2022 4:00	-12.7	16	26	SSW (210)	69	0	
1/27/2022 5:00	-12.4	18	28	S (180)	69	0	
1/27/2022 6:00	-12.1	20	32	S (180)	66	0	
1/27/2022 7:00	-11	23	37	S (174)	62	0	0
1/27/2022 8:00	-9.7	25	42	SSW (198)	59	0	
1/27/2022 9:00	-9.2	27	42	WSW (247)	59	0	
1/27/2022 10:00	-8.7	25	39	SSW (207)	59	0	
1/27/2022 11:00	-8.4	24	38	SSW (198)	64	0	
1/27/2022 12:00	-8.2	21	37	SW (224)	69	0	
1/27/2022 13:00	-7.6	22	36	S (174)	68	0	
1/27/2022 14:00	-7	21	33	SSW (205)	73	0	
1/27/2022 15:00	-6.6	18	29	SSW (212)	81	0	
1/27/2022 16:00	-6.2	16	25	SW (214)	81	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/27/2022 17:00	-5.7	14	21	SW (224)	80	0	
1/27/2022 18:00	-5.5	13	19	SSW (206)	82	0	
1/27/2022 19:00	-5.2	14	22	SW (221)	82	0	
1/27/2022 20:00	-4.9	14	20	WSW (239)	81	0	
1/27/2022 21:00	-4.4	13	19	W (262)	77	0	
1/27/2022 22:00	-4	14	26	NW (322)	81	0	
1/27/2022 23:00	-4.2	18	29	NNW (346)	81	0	
1/28/2022 0:00	-5.4	21	31	NW (324)	71	0	
1/28/2022 1:00	-5.7	19	30	NW (324)	69	0	
1/28/2022 2:00	-5.9	19	26	NW (316)	68	0	
1/28/2022 3:00	-6.1	18	25	NE (41)	77	0	
1/28/2022 4:00	-8.1	21	31	NE (36)	78	0	
1/28/2022 5:00	-8.7	17	28	NE (41)	67	0	
1/28/2022 6:00	-10.1	18	27	ENE (57)	69	0	
1/28/2022 7:00	-12.1	16	23	ENE (67)	70	0	0
1/28/2022 8:00	-13.4	15	23	NE (52)	71	0	
1/28/2022 9:00	-13.5	18	32	NE (43)	69	0	
1/28/2022 10:00	-12.9	19	27	ENE (65)	65	0	
1/28/2022 11:00	-12.4	21	27	NE (38)	61	0	
1/28/2022 12:00	-11.8	19	27	ENE (57)	61	0	
1/28/2022 13:00	-11.3	19	29	N (10)	58	0	
1/28/2022 14:00	-11.4	20	29	N (11)	54	0	
1/28/2022 15:00	-11.5	18	26	NNE (14)	53	0	
1/28/2022 16:00	-12.1	12	22	NNE (23)	56	0	
1/28/2022 17:00	-13.9	11	16	NE (41)	59	0	
1/28/2022 18:00	-14.9	9	13	NE (48)	61	0	
1/28/2022 19:00	-15.8	9	13	NE (42)	64	0	
1/28/2022 20:00	-16.6	8	12	N (11)	66	0	
1/28/2022 21:00	-17.4	9	12	NNE (33)	69	0	
1/28/2022 22:00	-18.1	6	10	E (96)	72	0	
1/28/2022 23:00	-18.1	5	7	NE (37)	73	0	
1/29/2022 0:00	-18.8	6	7	NE (56)	78	0	
1/29/2022 1:00	-18.5	6	8	NE (46)	78	0	
1/29/2022 2:00	-19	5	8	ENE (70)	79	0	
1/29/2022 3:00	-19	10	15	ENE (76)	80	0	
1/29/2022 4:00	-18.9	14	22	ENE (74)	80	0	
1/29/2022 5:00	-18.8	13	19	E (86)	81	0	
1/29/2022 6:00	-19.6	4	10	W (271)	81	0	
1/29/2022 7:00	-22	5	7	NE (45)	80	0	0
1/29/2022 8:00	-19.2	2	5	W (263)	81	0	
1/29/2022 9:00	-16.6	2	5	W (275)	80	0	
1/29/2022 10:00	-14.8	3	6	NW (313)	76	0.4	
1/29/2022 11:00	-12.8	2	7	SW (228)	69	0.2	
1/29/2022 12:00	-11.3	3	6	SW (227)	63	0.2	
1/29/2022 13:00	-9.7	2	6	SE (127)	56	0	
1/29/2022 14:00	-9	3	7	SW (220)	57	0	
1/29/2022 15:00	-9.3	7	13	SW (232)	59	0.2	
1/29/2022 16:00	-9.8	7	12	SW (228)	62	0	
1/29/2022 17:00	-11.2	8	12	SSW (200)	67	0	
1/29/2022 18:00	-12.1	7	12	S (173)	72	0	
1/29/2022 19:00	-12.1	7	12	S (177)	72	0	
1/29/2022 20:00	-12.1	8	13	SSE (152)	73	0	
1/29/2022 21:00	-12	8	13	S (190)	75	0	
1/29/2022 22:00	-11.6	10	17	S (185)	74	0	
1/29/2022 23:00	-11.7	11	17	SSW (203)	78	0	
1/30/2022 0:00	-11.5	10	15	SSW (213)	78	0	
1/30/2022 1:00	-12.1	10	16	S (174)	76	0	
1/30/2022 2:00	-12.5	8	13	S (173)	75	0	
1/30/2022 3:00	-13.2	10	14	SSE (165)	77	0	
1/30/2022 4:00	-13.6	6	12	ESE (104)	78	0	
1/30/2022 5:00	-14.6	6	8	ESE (111)	84	0	
1/30/2022 6:00	-14.4	6	9	ESE (115)	84	0	
1/30/2022 7:00	-12.9	8	12	SE (129)	86	0	1
1/30/2022 8:00	-11.9	7	13	NE (56)	82	0	
1/30/2022 9:00	-10.6	1	4	SE (124)	79	0	
1/30/2022 10:00	-9.6	10	16	ESE (120)	71	0	
1/30/2022 11:00	-8.9	11	15	SE (136)	73	0	
1/30/2022 12:00	-7.3	6	15	S (177)	71	0	
1/30/2022 13:00	-6.1	6	11	SW (232)	62	0	
1/30/2022 14:00	-6.2	5	10	SW (224)	63	0	
1/30/2022 15:00	-6.3	5	9	WSW (238)	63	0	
1/30/2022 16:00	-6.6	2	6	WSW (250)	66	0	
1/30/2022 17:00	-7.3	1	5	NNE (19)	69	0	
1/30/2022 18:00	-9.1	3	4	ENE (72)	74	0	
1/30/2022 19:00	-9.6	2	5	ESE (122)	75	0	
1/30/2022 20:00	-8.9	2	5	SSE (160)	74	0	
1/30/2022 21:00	-8.2	4	9	SSE (162)	73	0	
1/30/2022 22:00	-8.2	8	13	SSE (156)	73	0	
1/30/2022 23:00	-8.8	12	15	SSE (152)	76	0	
1/31/2022 0:00	-9	10	13	S (172)	78	0	
1/31/2022 1:00	-9.4	5	10	SW (216)	82	0	
1/31/2022 2:00	-10.1	3	6	SSW (200)	85	0	
1/31/2022 3:00	-9.7	4	7	S (188)	85	0	
1/31/2022 4:00	-9.6	3	9	SSE (152)	83	0	
1/31/2022 5:00	-11.9	0	2	NNE (26)	89	0	
1/31/2022 6:00	-12.9	2	4	ESE (112)	89	0	
1/31/2022 7:00	-12.4	4	7	SE (124)	89	0	0
1/31/2022 8:00	-11.1	3	5	ESE (110)	88	0	
1/31/2022 9:00	-8.3	2	5	SE (129)	89	0	
1/31/2022 10:00	-5.9	7	12	SE (132)	74	0	
1/31/2022 11:00	-4.7	9	14	SSE (148)	72	0	
1/31/2022 12:00	-4	12	20	SE (136)	72	0	
1/31/2022 13:00	-3.6	16	22	SE (139)	71	0	
1/31/2022 14:00	-3.4	15	20	SE (133)	71	0	
1/31/2022 15:00	-3.4	15	20	SE (137)	70	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/31/2022 16:00	-3.7	14	17	SE (132)	69	0	
1/31/2022 17:00	-4.9	12	16	SE (129)	72	0	
1/31/2022 18:00	-6.2	13	18	ESE (123)	75	0	
1/31/2022 19:00	-6.7	16	20	SE (128)	74	0	
1/31/2022 20:00	-7.5	17	20	SE (128)	75	0	
1/31/2022 21:00	-7.9	19	26	ESE (117)	78	0	
1/31/2022 22:00	-7.8	20	26	ESE (118)	80	0	
1/31/2022 23:00	-7.5	20	27	SE (128)	78	0	
2/1/2022 0:00	-7.5	18	23	SE (130)	76	0	
2/1/2022 1:00	-7.6	19	24	ESE (120)	77	0	
2/1/2022 2:00	-7.4	21	26	ESE (122)	78	0	
2/1/2022 3:00	-6.9	21	25	SE (128)	79	0	
2/1/2022 4:00	-6	22	27	SE (130)	79	0	
2/1/2022 5:00	-5.1	24	30	SE (133)	77	0	
2/1/2022 6:00	-4.8	24	30	SE (143)	76	0	
2/1/2022 7:00	-4.4	25	32	SE (137)	76	0	0
2/1/2022 8:00	-3.8	29	35	SE (135)	76	0	
2/1/2022 9:00	-2.3	28	37	SE (141)	75	0	
2/1/2022 10:00	-0.6	29	42	SE (138)	70	0	
2/1/2022 11:00	1.1	32	41	SE (144)	67	0	
2/1/2022 12:00	1.8	31	41	SSE (161)	64	0	
2/1/2022 13:00	3.1	26	36	SE (139)	61	0.4	
2/1/2022 14:00	4.2	24	31	SSE (157)	57	0.6	
2/1/2022 15:00	4.6	23	29	SSE (148)	57	0	
2/1/2022 16:00	4.8	22	31	S (171)	58	0	
2/1/2022 17:00	4.6	18	25	SSE (157)	59	0	
2/1/2022 18:00	5	19	27	S (175)	58	0	
2/1/2022 19:00	5.5	19	29	SSE (166)	58	0	
2/1/2022 20:00	5.6	19	29	SW (222)	61	0.2	
2/1/2022 21:00	5.1	15	27	S (175)	64	0	
2/1/2022 22:00	4.9	14	24	SSW (193)	63	0	
2/1/2022 23:00	4.5	11	22	SSW (204)	67	0	
2/2/2022 0:00	4.2	12	20	S (189)	70	0	
2/2/2022 1:00	3.5	10	17	S (188)	74	0	
2/2/2022 2:00	3.4	7	11	S (170)	78	0.2	
2/2/2022 3:00	2.6	8	13	SE (131)	87	0	
2/2/2022 4:00	2.1	9	14	SE (131)	89	0	
2/2/2022 5:00	1.9	3	9	NW (318)	100	0.2	
2/2/2022 6:00	1.5	3	8	NNW (328)	100	1.2	
2/2/2022 7:00	1.7	8	15	N (351)	100	1.4	4.2
2/2/2022 8:00	1.2	6	13	NNE (15)	100	1.2	
2/2/2022 9:00	0.9	7	13	NNE (23)	100	0.2	
2/2/2022 10:00	0.5	5	15	NNW (345)	100	0.4	
2/2/2022 11:00	0.1	4	8	NW (322)	100	0	
2/2/2022 12:00	0.1	8	12	NNW (338)	100	1	
2/2/2022 13:00	0.1	9	17	ENE (57)	100	0.8	
2/2/2022 14:00	-0.4	14	25	NW (324)	100	1	
2/2/2022 15:00	-1.1	15	27	NNW (337)	100	0.4	
2/2/2022 16:00	-1.6	21	36	NNW (339)	100	0	
2/2/2022 17:00	-2.4	27	44	N (0)	100	0	
2/2/2022 18:00	-3	31	43	NNE (16)	100	0	
2/2/2022 19:00	-3.4	32	45	N (6)	100	0	
2/2/2022 20:00	-3.5	25	36	N (6)	100	0	
2/2/2022 21:00	-3.6	24	37	N (1)	100	0	
2/2/2022 22:00	-3.8	23	38	N (8)	100	0	
2/2/2022 23:00	-4.1	25	40	NNE (13)	100	0	
2/3/2022 0:00	-4.5	23	36	NNW (344)	100	0	
2/3/2022 1:00	-4.3	21	33	N (1)	100	0	
2/3/2022 2:00	-4.2	22	31	NNE (18)	96	0	
2/3/2022 3:00	-4.5	20	29	N (7)	94	0	
2/3/2022 4:00	-4.9	19	27	N (1)	91	0	
2/3/2022 5:00	-5.2	19	31	N (7)	87	0	
2/3/2022 6:00	-5.3	16	26	NNE (32)	80	0	
2/3/2022 7:00	-5.6	17	25	NNE (13)	78	0	5
2/3/2022 8:00	-5.9	21	30	NE (40)	77	0	
2/3/2022 9:00	-6.5	21	33	NNE (18)	77	0	
2/3/2022 10:00	-7.1	22	32	NNE (16)	75	0	
2/3/2022 11:00	-7.4	25	35	NNE (19)	73	0	
2/3/2022 12:00	-7.6	26	37	N (11)	70	0	
2/3/2022 13:00	-7.8	27	37	N (6)	68	0	
2/3/2022 14:00	-8	28	41	N (3)	68	0	
2/3/2022 15:00	-8.4	30	40	NNE (24)	67	0	
2/3/2022 16:00	-9	29	39	N (4)	74	0	
2/3/2022 17:00	-9.7	23	34	N (10)	80	0	
2/3/2022 18:00	-9.8	21	31	NNE (20)	79	0	
2/3/2022 19:00	-9.7	22	32	N (8)	74	0	
2/3/2022 20:00	-9.8	18	29	N (5)	75	0	
2/3/2022 21:00	-9.8	18	28	N (5)	72	0	
2/3/2022 22:00	-10	18	25	NE (40)	71	0	
2/3/2022 23:00	-10	20	27	N (11)	73	0	
2/4/2022 0:00	-10.1	19	27	N (7)	74	0	
2/4/2022 1:00	-10.1	18	25	N (6)	73	0	
2/4/2022 2:00	-10.3	19	26	N (3)	73	0	
2/4/2022 3:00	-10.5	19	26	N (8)	74	0	
2/4/2022 4:00	-11.1	17	23	NNE (12)	73	0	
2/4/2022 5:00	-12.3	15	23	N (4)	74	0	
2/4/2022 6:00	-13.1	12	21	N (9)	76	0	
2/4/2022 7:00	-13.5	13	20	NNW (343)	76	0	0
2/4/2022 8:00	-13.4	13	18	N (0)	75	0	
2/4/2022 9:00	-12.7	14	22	NNE (31)	73	0	
2/4/2022 10:00	-12.2	13	19	N (349)	70	0	
2/4/2022 11:00	-11.4	12	18	NNE (16)	72	0	
2/4/2022 12:00	-10	10	16	N (0)	71	0	
2/4/2022 13:00	-9.2	12	21	NNW (339)	69	0.6	
2/4/2022 14:00	-8.9	13	20	N (9)	71	0.4	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/4/2022 15:00	-8.7	11	19	N (9)	75	0	
2/4/2022 16:00	-8.7	10	15	N (0)	80	0	
2/4/2022 17:00	-9.1	7	12	N (3)	84	0	
2/4/2022 18:00	-9.5	2	5	N (354)	87	0	
2/4/2022 19:00	-10.5	4	8	E (87)	87	0	
2/4/2022 20:00	-11	4	6	ENE (73)	86	0	
2/4/2022 21:00	-11.6	2	5	NE (41)	85	0	
2/4/2022 22:00	-13.4	1	4	E (84)	87	0	
2/4/2022 23:00	-13.4	1	4	SW (217)	86	0	
2/5/2022 0:00	-13.3	6	9	SW (231)	86	0	
2/5/2022 1:00	-13.3	7	10	WSW (248)	86	0	
2/5/2022 2:00	-13.3	9	11	WSW (245)	85	0	
2/5/2022 3:00	-13.5	9	11	WSW (238)	85	0	
2/5/2022 4:00	-14	9	11	SW (233)	84	0	
2/5/2022 5:00	-14.8	9	11	WSW (248)	84	0	
2/5/2022 6:00	-16	11	13	SW (235)	84	0	
2/5/2022 7:00	-16.1	10	14	WSW (238)	84	0	1
2/5/2022 8:00	-15.2	11	13	SW (231)	83	0	
2/5/2022 9:00	-13.6	11	15	WSW (250)	83	0	
2/5/2022 10:00	-11.4	7	11	SW (235)	81	0	
2/5/2022 11:00	-9.5	8	13	WSW (238)	74	0.4	
2/5/2022 12:00	-7.8	6	9	SW (233)	68	0.4	
2/5/2022 13:00	-7.1	7	13	SSW (208)	61	0	
2/5/2022 14:00	-7.4	9	15	SSW (199)	56	0	
2/5/2022 15:00	-7.6	9	14	S (182)	53	0	
2/5/2022 16:00	-7.8	8	14	SSW (201)	54	0	
2/5/2022 17:00	-8.4	10	18	SSE (166)	60	0	
2/5/2022 18:00	-9.6	11	17	SSE (164)	69	0	
2/5/2022 19:00	-9.5	16	22	SSE (154)	76	0	
2/5/2022 20:00	-9.7	16	22	SSE (160)	80	0	
2/5/2022 21:00	-9.4	16	22	S (185)	81	0	
2/5/2022 22:00	-9.2	18	27	SSE (153)	82	0	
2/5/2022 23:00	-9.4	19	25	SSE (148)	82	0	
2/6/2022 0:00	-9.2	20	28	SSE (167)	82	0	
2/6/2022 1:00	-8.5	25	37	S (169)	79	0	
2/6/2022 2:00	-8.2	24	38	S (182)	78	0	
2/6/2022 3:00	-8.2	23	37	SSE (161)	78	0	
2/6/2022 4:00	-8.3	24	38	S (173)	79	0	
2/6/2022 5:00	-8.4	26	39	SSW (196)	79	0	
2/6/2022 6:00	-8.1	27	40	S (177)	79	0	
2/6/2022 7:00	-7.7	26	39	S (182)	78	0	0.8
2/6/2022 8:00	-7.6	22	39	SSW (200)	77	0	
2/6/2022 9:00	-6.8	17	27	SSW (212)	75	0	
2/6/2022 10:00	-5.7	22	36	SSW (206)	71	0	
2/6/2022 11:00	-4.6	20	31	SSW (199)	67	0	
2/6/2022 12:00	-3.8	22	39	SSW (213)	64	0	
2/6/2022 13:00	-3.1	23	37	SE (146)	61	0	
2/6/2022 14:00	-2.4	21	37	S (190)	58	0	
2/6/2022 15:00	-2	18	29	SSE (158)	57	0	
2/6/2022 16:00	-2.1	14	33	S (185)	63	0	
2/6/2022 17:00	-2.8	17	28	S (173)	67	0	
2/6/2022 18:00	-3.1	17	26	SSW (196)	67	0	
2/6/2022 19:00	-3.4	15	25	S (170)	65	0	
2/6/2022 20:00	-3.4	15	23	SSW (194)	64	0	
2/6/2022 21:00	-3.1	15	25	SSW (205)	59	0	
2/6/2022 22:00	-3.9	15	20	SSE (165)	65	0	
2/6/2022 23:00	-4.7	16	23	S (172)	69	0	
2/7/2022 0:00	-3.9	16	25	S (183)	69	0	
2/7/2022 1:00	-4.1	13	19	SSE (165)	72	0	
2/7/2022 2:00	-4.4	14	22	S (184)	75	0	
2/7/2022 3:00	-4.3	13	19	S (189)	77	0	
2/7/2022 4:00	-4.2	11	21	S (169)	78	0	
2/7/2022 5:00	-4.3	10	18	SSE (163)	77	0	
2/7/2022 6:00	-4.5	10	17	SSE (167)	77	0	
2/7/2022 7:00	-5.1	9	14	SSW (198)	78	0	0
2/7/2022 8:00	-5.3	11	16	SSE (168)	79	0	
2/7/2022 9:00	-3.9	13	21	S (191)	76	0	
2/7/2022 10:00	-3.2	14	24	S (175)	72	0.8	
2/7/2022 11:00	-2.6	14	24	SSW (213)	77	0.2	
2/7/2022 12:00	-1.9	16	26	SW (222)	77	0	
2/7/2022 13:00	-1.3	15	26	SSW (199)	77	0	
2/7/2022 14:00	-1.1	15	25	SW (219)	79	0	
2/7/2022 15:00	-1	15	25	SSW (210)	80	0	
2/7/2022 16:00	-1.1	13	21	SW (234)	82	0	
2/7/2022 17:00	-1.4	11	18	SSW (192)	86	0	
2/7/2022 18:00	-1.7	12	20	SSW (202)	86	0	
2/7/2022 19:00	-1.8	12	19	WSW (248)	88	0	
2/7/2022 20:00	-2.1	15	22	W (280)	90	0	
2/7/2022 21:00	-2.7	15	25	NW (317)	90	0	
2/7/2022 22:00	-3	9	17	W (274)	86	0	
2/7/2022 23:00	-3.3	7	12	WNW (282)	85	0	
2/8/2022 0:00	-3.8	9	14	W (260)	87	0	
2/8/2022 1:00	-4.2	9	12	WSW (253)	89	0	
2/8/2022 2:00	-4.3	8	11	W (276)	95	0	
2/8/2022 3:00	-4.3	8	13	W (260)	96	0	
2/8/2022 4:00	-4.2	9	14	WNW (282)	86	0	
2/8/2022 5:00	-4.5	9	15	W (266)	86	0	
2/8/2022 6:00	-4.9	10	14	WNW (283)	86	0	
2/8/2022 7:00	-4.8	10	16	W (277)	85	0	1
2/8/2022 8:00	-6	8	12	WSW (256)	82	0	
2/8/2022 9:00	-5.9	9	14	W (273)	80	0	
2/8/2022 10:00	-4.8	11	15	WSW (255)	76	0	
2/8/2022 11:00	-3.7	10	19	SSW (210)	70	0	
2/8/2022 12:00	-3.6	14	22	SW (216)	68	0	
2/8/2022 13:00	-3.4	17	28	SSW (202)	66	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/8/2022 14:00	-3.7	17	27	S (184)	69	0	
2/8/2022 15:00	-3.8	17	26	SW (220)	69	0	
2/8/2022 16:00	-4.2	18	27	SSW (200)	70	0	
2/8/2022 17:00	-4.8	11	19	SSE (161)	72	0	
2/8/2022 18:00	-5.9	13	18	SSE (148)	77	0	
2/8/2022 19:00	-6.2	15	20	S (169)	79	0	
2/8/2022 20:00	-6.4	16	22	SSE (153)	79	0	
2/8/2022 21:00	-6.1	20	27	SE (141)	78	0	
2/8/2022 22:00	-5.7	23	29	SE (134)	78	0	
2/8/2022 23:00	-5	24	35	SE (142)	78	0	
2/9/2022 0:00	-4	21	31	SSE (157)	76	0	
2/9/2022 1:00	-2.4	22	31	SSE (153)	73	0	
2/9/2022 2:00	-2	20	29	S (169)	75	0	
2/9/2022 3:00	-1.8	18	26	SSE (162)	77	0	
2/9/2022 4:00	-1	16	22	S (190)	77	0	
2/9/2022 5:00	-0.1	17	25	SSE (157)	76	0	
2/9/2022 6:00	0.9	15	24	SSW (213)	75	0	
2/9/2022 7:00	1.2	13	25	SSW (211)	75	0	0
2/9/2022 8:00	1.9	17	31	SW (217)	74	0	
2/9/2022 9:00	2.2	19	33	SW (215)	74	0	
2/9/2022 10:00	2.7	19	31	S (179)	74	0	
2/9/2022 11:00	3.2	19	31	SSW (213)	72	0	
2/9/2022 12:00	3.2	18	29	S (188)	74	0	
2/9/2022 13:00	3.6	17	29	S (177)	73	0	
2/9/2022 14:00	3.9	16	25	S (178)	71	0	
2/9/2022 15:00	4.1	15	28	S (189)	70	0.2	
2/9/2022 16:00	3.8	16	27	SSW (200)	72	0	
2/9/2022 17:00	3.2	17	35	SSW (195)	75	0	
2/9/2022 18:00	2.6	16	26	SSW (192)	78	0	
2/9/2022 19:00	2.2	17	26	SSW (204)	81	0	
2/9/2022 20:00	2	16	24	SSW (210)	81	0	
2/9/2022 21:00	1.9	17	27	SW (233)	79	0	
2/9/2022 22:00	1.7	18	28	SW (227)	79	0	
2/9/2022 23:00	1.4	17	27	SW (219)	81	0	
2/10/2022 0:00	1	15	24	SSW (206)	84	0	
2/10/2022 1:00	0.8	16	26	WSW (237)	89	0	
2/10/2022 2:00	0.5	13	22	SSW (204)	92	0	
2/10/2022 3:00	0.4	15	25	SW (221)	100	0	
2/10/2022 4:00	0.3	16	26	SW (227)	100	0	
2/10/2022 5:00	0.2	19	27	WSW (243)	100	0	
2/10/2022 6:00	0.2	18	24	WSW (237)	100	0	
2/10/2022 7:00	-0.4	20	35	W (281)	100	0	0.2
2/10/2022 8:00	-1	18	27	WNW (292)	98	0	
2/10/2022 9:00	-0.9	16	27	W (270)	84	0	
2/10/2022 10:00	-0.8	15	24	W (280)	76	0	
2/10/2022 11:00	-0.3	15	24	W (274)	75	0	
2/10/2022 12:00	-0.3	19	32	WNW (282)	74	0	
2/10/2022 13:00	-0.5	20	31	WSW (258)	69	0	
2/10/2022 14:00	-0.5	21	29	W (259)	69	0	
2/10/2022 15:00	-0.6	21	30	W (267)	70	0	
2/10/2022 16:00	-0.8	17	28	WNW (287)	72	0	
2/10/2022 17:00	-1.2	14	22	SW (214)	74	0	
2/10/2022 18:00	-1.3	13	24	SW (228)	73	0	
2/10/2022 19:00	-1.4	12	23	SW (227)	72	0	
2/10/2022 20:00	-1.5	10	19	SW (216)	73	0	
2/10/2022 21:00	-1.6	19	34	SW (224)	73	0	
2/10/2022 22:00	-1.9	18	29	SW (228)	70	0	
2/10/2022 23:00	-2	12	25	S (188)	73	0	
2/11/2022 0:00	-1.7	16	30	SW (214)	74	0	
2/11/2022 1:00	-1.9	17	30	S (183)	75	0	
2/11/2022 2:00	-2.4	16	27	S (172)	76	0	
2/11/2022 3:00	-2.5	21	33	SSE (152)	80	0	
2/11/2022 4:00	-1.9	24	34	SSE (168)	81	0	
2/11/2022 5:00	-1.5	24	38	SSE (160)	82	0	
2/11/2022 6:00	-1	25	45	S (176)	87	0	
2/11/2022 7:00	-0.5	31	45	S (178)	100	0	0
2/11/2022 8:00	0.1	27	41	SSW (201)	100	0	
2/11/2022 9:00	1	21	39	SSW (213)	100	0.6	
2/11/2022 10:00	2.1	22	38	SW (227)	90	0	
2/11/2022 11:00	2.3	23	40	WSW (238)	80	0	
2/11/2022 12:00	1.9	23	37	SSW (211)	91	0.4	
2/11/2022 13:00	1.1	21	31	SSW (205)	100	0.8	
2/11/2022 14:00	0.8	19	29	SW (218)	100	0.6	
2/11/2022 15:00	0.7	19	31	SW (221)	100	0.4	
2/11/2022 16:00	0.6	18	28	SSW (205)	100	0.6	
2/11/2022 17:00	0.9	18	32	SW (229)	100	0.2	
2/11/2022 18:00	1.3	18	31	S (179)	100	0	
2/11/2022 19:00	1.2	19	29	SW (220)	100	0.2	
2/11/2022 20:00	1.2	17	25	SW (222)	100	0	
2/11/2022 21:00	1.2	17	27	WSW (244)	100	0	
2/11/2022 22:00	1.3	19	28	SW (222)	100	0	
2/11/2022 23:00	1.4	18	28	SW (233)	100	0	
2/12/2022 0:00	1.4	18	27	SW (218)	100	0	
2/12/2022 1:00	1.3	19	30	SW (219)	100	0	
2/12/2022 2:00	0.4	24	47	NW (316)	100	0	
2/12/2022 3:00	-2.1	31	49	WNW (297)	100	0	
2/12/2022 4:00	-3.7	31	45	NW (308)	89	0	
2/12/2022 5:00	-4.5	30	43	WNW (292)	77	0	
2/12/2022 6:00	-4.9	29	40	WNW (283)	76	0	
2/12/2022 7:00	-5.4	28	41	NW (312)	77	0	3.8
2/12/2022 8:00	-6.7	31	44	WNW (302)	75	0	
2/12/2022 9:00	-7.4	28	40	W (271)	71	0	
2/12/2022 10:00	-7.6	26	36	NW (304)	76	0	
2/12/2022 11:00	-8.6	26	38	NW (313)	81	0	
2/12/2022 12:00	-9.3	26	37	NW (316)	77	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/12/2022 13:00	-9.5	23	32	WNW (301)	72	0	
2/12/2022 14:00	-10	21	31	WNW (302)	75	0	
2/12/2022 15:00	-9.8	16	23	NW (322)	73	0	
2/12/2022 16:00	-9.9	14	23	WNW (289)	74	0	
2/12/2022 17:00	-10	14	23	NW (323)	75	0	
2/12/2022 18:00	-10.5	14	20	WNW (298)	79	0	
2/12/2022 19:00	-10.6	14	19	WNW (299)	78	0	
2/12/2022 20:00	-10.9	7	16	NE (36)	74	0	
2/12/2022 21:00	-11	5	8	ENE (62)	73	0	
2/12/2022 22:00	-10.5	3	6	E (80)	70	0	
2/12/2022 23:00	-10.1	2	5	SE (141)	65	0	
2/13/2022 0:00	-9.9	1	5	N (353)	67	0	
2/13/2022 1:00	-10.1	4	9	WSW (239)	71	0	
2/13/2022 2:00	-10.1	6	13	SSW (198)	79	0	
2/13/2022 3:00	-10	4	12	SW (230)	78	0	
2/13/2022 4:00	-9.7	7	13	SW (215)	77	0	
2/13/2022 5:00	-9.6	8	13	WSW (237)	75	0	
2/13/2022 6:00	-9.5	7	12	SW (219)	74	0	
2/13/2022 7:00	-9.4	8	12	SW (218)	74	0	0
2/13/2022 8:00	-9.5	10	18	NW (304)	82	0	
2/13/2022 9:00	-9.3	10	17	WNW (298)	80	0	
2/13/2022 10:00	-8.4	12	22	WNW (298)	63	0	
2/13/2022 11:00	-8.2	13	21	WNW (292)	59	0	
2/13/2022 12:00	-8.3	14	23	N (352)	59	0	
2/13/2022 13:00	-8.3	10	18	NW (317)	54	0	
2/13/2022 14:00	-8.7	11	18	NNW (331)	59	0	
2/13/2022 15:00	-8.8	10	20	NW (318)	59	0	
2/13/2022 16:00	-9.3	14	22	NW (323)	62	0	
2/13/2022 17:00	-9.9	11	17	NW (322)	65	0	
2/13/2022 18:00	-10.6	6	12	NW (314)	69	0	
2/13/2022 19:00	-11.4	5	7	WSW (246)	71	0	
2/13/2022 20:00	-12.2	8	12	WSW (246)	69	0	
2/13/2022 21:00	-12.4	12	19	WSW (252)	73	0	
2/13/2022 22:00	-11.5	16	22	NW (326)	83	0	
2/13/2022 23:00	-11.4	16	25	NNW (341)	81	0	
2/14/2022 0:00	-12.6	10	17	N (10)	82	0	
2/14/2022 1:00	-14	4	11	W (281)	83	0	
2/14/2022 2:00	-14.9	6	9	W (270)	85	0	
2/14/2022 3:00	-14.7	4	8	NNE (28)	84	0	
2/14/2022 4:00	-14.6	5	7	ENE (77)	84	0	
2/14/2022 5:00	-15.3	4	8	SE (133)	83	0	
2/14/2022 6:00	-15.7	3	8	SSE (163)	83	0	
2/14/2022 7:00	-15.8	3	6	WSW (251)	83	0	0
2/14/2022 8:00	-14.8	4	11	W (269)	78	0	
2/14/2022 9:00	-12.4	9	17	W (279)	67	0	
2/14/2022 10:00	-11.6	15	21	WNW (284)	55	0	
2/14/2022 11:00	-10.7	13	19	NW (308)	47	0	
2/14/2022 12:00	-9.9	13	20	WSW (258)	46	0	
2/14/2022 13:00	-9.3	12	18	WNW (294)	45	0	
2/14/2022 14:00	-8.8	14	22	W (281)	45	0	
2/14/2022 15:00	-8.4	11	20	WNW (292)	44	0	
2/14/2022 16:00	-8.9	11	17	NW (306)	45	0	
2/14/2022 17:00	-9.3	5	9	NW (314)	48	0	
2/14/2022 18:00	-9.5	2	4	S (188)	50	0	
2/14/2022 19:00	-9.9	5	8	SSE (156)	55	0	
2/14/2022 20:00	-10	8	12	S (177)	53	0	
2/14/2022 21:00	-10.1	9	13	S (189)	65	0	
2/14/2022 22:00	-9.7	10	17	S (176)	69	0	
2/14/2022 23:00	-9.6	10	14	SSW (198)	73	0	
2/15/2022 0:00	-9.5	10	15	S (188)	77	0	
2/15/2022 1:00	-9.8	10	15	SSW (203)	79	0	
2/15/2022 2:00	-10	10	16	SW (214)	81	0	
2/15/2022 3:00	-10.1	10	14	WSW (242)	81	0	
2/15/2022 4:00	-9.6	9	12	W (259)	80	0	
2/15/2022 5:00	-9.5	6	10	SW (227)	78	0	
2/15/2022 6:00	-9.8	5	7	SW (218)	78	0	
2/15/2022 7:00	-9.7	5	8	SSW (198)	77	0	0
2/15/2022 8:00	-9.1	6	9	SW (221)	77	0	
2/15/2022 9:00	-8	4	7	SW (226)	76	0	
2/15/2022 10:00	-6.1	2	9	WSW (252)	67	0	
2/15/2022 11:00	-6.1	4	8	NW (316)	54	0	
2/15/2022 12:00	-5.5	3	9	E (96)	52	0	
2/15/2022 13:00	-5.1	8	15	SE (142)	52	0	
2/15/2022 14:00	-4.6	7	15	SE (145)	54	0	
2/15/2022 15:00	-4.4	11	18	SSE (160)	58	0	
2/15/2022 16:00	-4.8	18	23	SE (139)	64	0	
2/15/2022 17:00	-5.4	21	29	SE (138)	67	0	
2/15/2022 18:00	-6	19	28	SE (126)	67	0	
2/15/2022 19:00	-6.3	21	28	ESE (115)	71	0	
2/15/2022 20:00	-6.9	22	29	SE (126)	70	0	
2/15/2022 21:00	-7	24	33	ESE (123)	69	0	
2/15/2022 22:00	-6.6	28	37	SE (131)	70	0	
2/15/2022 23:00	-6.3	30	40	ESE (120)	71	0	
2/16/2022 0:00	-5.3	33	43	SE (131)	70	0	
2/16/2022 1:00	-4.1	35	45	SE (127)	68	0	
2/16/2022 2:00	-3.3	29	38	SE (141)	68	0	
2/16/2022 3:00	-1.9	27	36	SSE (154)	66	0	
2/16/2022 4:00	0	27	46	SSE (153)	63	0	
2/16/2022 5:00	0.6	23	33	SSE (154)	64	0	
2/16/2022 6:00	3.2	22	33	S (183)	61	0	
2/16/2022 7:00	4.8	26	40	S (174)	57	0	0
2/16/2022 8:00	6.2	27	42	S (179)	55	0	
2/16/2022 9:00	6.8	29	47	SSW (198)	52	0	
2/16/2022 10:00	6.9	26	40	SSW (194)	53	0	
2/16/2022 11:00	7.3	27	46	S (171)	53	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/16/2022 12:00	7.4	27	46	SSW (196)	54	0	
2/16/2022 13:00	7.5	27	47	SSW (193)	56	0	
2/16/2022 14:00	7.4	24	43	SSW (192)	59	0	
2/16/2022 15:00	7.4	24	39	SSW (201)	60	0	
2/16/2022 16:00	7.6	25	40	SSE (162)	62	0	
2/16/2022 17:00	8.1	25	40	S (190)	63	0	
2/16/2022 18:00	8	23	36	SSW (203)	70	0	
2/16/2022 19:00	7.8	20	34	S (175)	71	0	
2/16/2022 20:00	8.1	20	35	SSE (156)	74	0.2	
2/16/2022 21:00	8.3	22	34	SSW (206)	76	0.2	
2/16/2022 22:00	8.1	17	29	SSW (210)	76	0	
2/16/2022 23:00	8.4	18	29	SSE (150)	74	0	
2/17/2022 0:00	9	19	31	SW (220)	71	0	
2/17/2022 1:00	8.2	18	28	SW (225)	80	0.4	
2/17/2022 2:00	6.4	9	24	W (275)	100	3.4	
2/17/2022 3:00	5.6	5	18	NW (320)	100	3	
2/17/2022 4:00	5.5	4	15	SSW (213)	100	3.8	
2/17/2022 5:00	6.5	15	25	SW (221)	100	5.4	
2/17/2022 6:00	4.7	19	31	N (351)	100	3.6	
2/17/2022 7:00	0.3	19	34	N (0)	100	0.8	20.8
2/17/2022 8:00	-0.2	17	27	NW (310)	100	0.2	
2/17/2022 9:00	-0.7	19	36	N (0)	100	0	
2/17/2022 10:00	-0.9	20	34	N (7)	91	0	
2/17/2022 11:00	-0.8	21	36	NNW (329)	96	0	
2/17/2022 12:00	-1	22	39	N (350)	100	0	
2/17/2022 13:00	-1.2	22	35	N (352)	100	0	
2/17/2022 14:00	-1.4	25	42	N (0)	91	0	
2/17/2022 15:00	-1.8	23	37	N (353)	100	0	
2/17/2022 16:00	-2.6	25	43	NNE (27)	100	0	
2/17/2022 17:00	-2.9	26	41	N (2)	100	0	
2/17/2022 18:00	-2.9	23	37	NNE (15)	100	0	
2/17/2022 19:00	-3.4	26	41	N (9)	100	0	
2/17/2022 20:00	-3.7	27	41	N (1)	100	0	
2/17/2022 21:00	-4.4	28	43	N (5)	100	0	
2/17/2022 22:00	-4.5	24	39	N (6)	100	0	
2/17/2022 23:00	-4.6	24	44	N (353)	100	0	
2/18/2022 0:00	-5	21	37	N (0)	100	0	
2/18/2022 1:00	-5	19	32	NW (322)	96	0	
2/18/2022 2:00	-5.2	20	40	NNW (330)	99	0	
2/18/2022 3:00	-6	28	48	NW (312)	100	0	
2/18/2022 4:00	-6.9	35	52	WNW (301)	99	0	
2/18/2022 5:00	-7.6	31	45	WNW (296)	91	0	
2/18/2022 6:00	-8.7	26	37	WNW (294)	87	0	
2/18/2022 7:00	-9.3	23	34	NW (312)	84	0	0.2
2/18/2022 8:00	-9.6	21	30	WNW (295)	81	0	
2/18/2022 9:00	-9.1	21	33	WNW (297)	75	0	
2/18/2022 10:00	-9.1	25	35	NW (304)	65	0	
2/18/2022 11:00	-9	22	34	WNW (300)	63	0	
2/18/2022 12:00	-8.7	16	24	WNW (292)	61	0	
2/18/2022 13:00	-8.5	14	22	SW (226)	60	0	
2/18/2022 14:00	-7.8	16	26	SW (221)	58	0	
2/18/2022 15:00	-8	19	32	SSW (204)	65	0	
2/18/2022 16:00	-8.4	19	31	S (178)	66	0	
2/18/2022 17:00	-8.7	21	34	S (170)	72	0	
2/18/2022 18:00	-8.7	20	34	S (172)	73	0	
2/18/2022 19:00	-8	25	37	S (176)	77	0	
2/18/2022 20:00	-6.5	27	43	S (172)	77	0	
2/18/2022 21:00	-5.5	30	49	SSW (207)	74	0	
2/18/2022 22:00	-4.7	34	51	SSW (212)	75	0	
2/18/2022 23:00	-4.4	34	50	SSW (212)	79	0	
2/19/2022 0:00	-3.7	31	48	WSW (257)	79	0	
2/19/2022 1:00	-3.3	33	49	SW (220)	82	0	
2/19/2022 2:00	-3.3	32	46	SW (224)	87	0	
2/19/2022 3:00	-2.8	37	53	WSW (242)	86	0	
2/19/2022 4:00	-4.8	36	60	W (271)	94	0	
2/19/2022 5:00	-7.6	40	60	WNW (282)	78	0	
2/19/2022 6:00	-10.1	36	54	W (280)	77	0	
2/19/2022 7:00	-11.1	33	56	W (274)	66	0	0
2/19/2022 8:00	-11.2	30	47	W (273)	64	0	
2/19/2022 9:00	-10.7	33	54	WNW (286)	63	0	
2/19/2022 10:00	-9.8	35	56	W (274)	63	0	
2/19/2022 11:00	-8.7	37	55	WNW (292)	63	0	
2/19/2022 12:00	-8	36	54	W (275)	61	0	
2/19/2022 13:00	-7.8	32	47	W (280)	69	0	
2/19/2022 14:00	-7.5	26	43	WNW (290)	80	0	
2/19/2022 15:00	-7.4	23	38	W (278)	79	0	
2/19/2022 16:00	-7.3	21	33	W (260)	69	0	
2/19/2022 17:00	-7.7	20	36	W (269)	69	0	
2/19/2022 18:00	-8.1	18	26	W (264)	57	0	
2/19/2022 19:00	-8.9	15	22	SW (224)	59	0	
2/19/2022 20:00	-9.9	13	19	WSW (239)	61	0	
2/19/2022 21:00	-10.6	9	13	SW (217)	64	0	
2/19/2022 22:00	-10.7	9	16	SW (216)	64	0	
2/19/2022 23:00	-10.2	10	18	SSW (196)	64	0	
2/20/2022 0:00	-10.1	13	19	SSW (196)	68	0	
2/20/2022 1:00	-10.6	12	20	SSW (196)	71	0	
2/20/2022 2:00	-10.5	13	22	SSW (199)	71	0	
2/20/2022 3:00	-10.4	13	20	SSE (154)	74	0	
2/20/2022 4:00	-9.6	16	28	S (179)	75	0	
2/20/2022 5:00	-8.9	21	34	S (170)	72	0	
2/20/2022 6:00	-7.8	25	38	SSE (159)	66	0	
2/20/2022 7:00	-6.6	23	36	SSE (157)	65	0	0
2/20/2022 8:00	-5.4	22	36	S (182)	65	0	
2/20/2022 9:00	-3.9	24	40	S (171)	63	0	
2/20/2022 10:00	-2.3	30	58	SSW (193)	56	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/20/2022 11:00	-1.1	33	56	SW (215)	51	0	
2/20/2022 12:00	0.1	30	50	SSW (205)	52	0	
2/20/2022 13:00	1.4	29	48	S (180)	51	0	
2/20/2022 14:00	2.5	31	50	SW (223)	52	0	
2/20/2022 15:00	3.4	32	50	SSW (201)	54	0	
2/20/2022 16:00	4.1	32	49	SSW (200)	56	0	
2/20/2022 17:00	4.4	30	49	SSW (209)	59	0	
2/20/2022 18:00	4.3	26	45	SW (215)	65	0	
2/20/2022 19:00	3.7	19	33	SW (224)	68	0.2	
2/20/2022 20:00	3.7	17	26	SW (226)	70	0	
2/20/2022 21:00	3.4	14	22	SW (221)	73	0	
2/20/2022 22:00	3.2	14	21	SSW (213)	74	0	
2/20/2022 23:00	2.8	14	21	SSW (211)	76	0	
2/21/2022 0:00	2	9	15	SW (227)	79	0	
2/21/2022 1:00	1.9	7	13	SW (219)	79	0	
2/21/2022 2:00	2	9	15	SSW (202)	77	0	
2/21/2022 3:00	1.2	5	11	WSW (257)	82	0	
2/21/2022 4:00	0.1	4	23	ESE (117)	87	0	
2/21/2022 5:00	-1.3	2	7	NNE (15)	100	0	
2/21/2022 6:00	-2.1	6	10	NE (38)	100	0	
2/21/2022 7:00	-2.1	6	10	NE (38)	100	0	0.2
2/21/2022 8:00	-1.4	5	8	ENE (67)	100	0	
2/21/2022 9:00	0.7	8	11	NNE (33)	100	0	
2/21/2022 10:00	2.2	6	9	ENE (61)	88	0	
2/21/2022 11:00	3.7	6	10	NE (35)	76	0	
2/21/2022 12:00	5.1	10	17	ESE (114)	74	0	
2/21/2022 13:00	5.9	13	18	ESE (118)	68	0	
2/21/2022 14:00	6.5	14	18	SE (125)	66	0	
2/21/2022 15:00	6.5	13	18	SE (134)	66	0	
2/21/2022 16:00	6	14	19	ESE (104)	70	0	
2/21/2022 17:00	4.8	12	16	ESE (114)	72	0	
2/21/2022 18:00	3.9	13	16	ESE (103)	70	0	
2/21/2022 19:00	3.6	15	21	ESE (117)	70	0	
2/21/2022 20:00	3.1	23	30	ESE (117)	74	0	
2/21/2022 21:00	2.8	27	34	ESE (106)	75	0	
2/21/2022 22:00	2.9	27	35	SE (125)	75	0	
2/21/2022 23:00	2.9	28	34	ESE (115)	75	0	
2/22/2022 0:00	3.4	29	34	ESE (115)	75	0	
2/22/2022 1:00	3.6	28	35	ESE (109)	76	0	
2/22/2022 2:00	3.4	30	40	ESE (118)	77	0	
2/22/2022 3:00	3.2	28	38	ESE (122)	78	0	
2/22/2022 4:00	3.3	26	34	ESE (118)	76	0	
2/22/2022 5:00	3.3	27	33	SE (130)	76	0	
2/22/2022 6:00	3.7	25	33	SE (142)	78	0	
2/22/2022 7:00	4.2	20	28	SE (135)	100	0.8	0.8
2/22/2022 8:00	4.2	21	28	SE (134)	100	0	
2/22/2022 9:00	4.4	20	25	SE (132)	100	0	
2/22/2022 10:00	5	20	28	ESE (119)	100	0	
2/22/2022 11:00	5.4	24	32	SE (125)	100	0	
2/22/2022 12:00	5.9	25	32	SE (144)	100	0.4	
2/22/2022 13:00	6.5	24	36	SE (144)	100	1	
2/22/2022 14:00	7.7	16	30	S (175)	100	1	
2/22/2022 15:00	7.7	9	17	SW (221)	100	0.8	
2/22/2022 16:00	7.2	9	15	SSW (203)	100	0.8	
2/22/2022 17:00	7.5	10	17	S (172)	100	0	
2/22/2022 18:00	7.8	13	21	SSW (212)	100	0	
2/22/2022 19:00	7.4	12	21	SW (225)	100	0	
2/22/2022 20:00	7.6	13	25	SSW (198)	100	0.2	
2/22/2022 21:00	8.8	18	31	SW (217)	100	0	
2/22/2022 22:00	7.1	20	48	W (275)	100	0	
2/22/2022 23:00	2.1	25	44	WNW (296)	100	0	
2/23/2022 0:00	1.6	25	39	WSW (246)	100	0	
2/23/2022 1:00	0.6	21	34	NW (308)	100	0	
2/23/2022 2:00	-0.4	18	32	NW (321)	100	0	
2/23/2022 3:00	-2.2	21	32	WNW (296)	100	0	
2/23/2022 4:00	-2.4	24	35	WNW (295)	100	0	
2/23/2022 5:00	-2.9	30	50	WNW (300)	100	0	
2/23/2022 6:00	-3.8	30	50	W (276)	91	0	
2/23/2022 7:00	-4.3	27	48	WNW (298)	92	0	4.2
2/23/2022 8:00	-5	27	45	NW (315)	100	0	
2/23/2022 9:00	-5.6	30	42	WNW (292)	92	0	
2/23/2022 10:00	-5.4	27	37	NW (305)	86	0	
2/23/2022 11:00	-5.3	24	36	NW (318)	78	0	
2/23/2022 12:00	-5.6	27	41	WNW (284)	79	0	
2/23/2022 13:00	-5.4	28	39	NW (314)	71	0	
2/23/2022 14:00	-6.3	27	39	NNW (337)	79	0	
2/23/2022 15:00	-7.4	20	34	NW (311)	79	0	
2/23/2022 16:00	-8.2	20	31	NNW (331)	77	0	
2/23/2022 17:00	-8.7	20	36	E (80)	74	0	
2/23/2022 18:00	-8.5	16	25	NW (311)	79	0	
2/23/2022 19:00	-8	16	28	N (6)	81	0	
2/23/2022 20:00	-8.2	12	21	NNE (30)	78	0	
2/23/2022 21:00	-8.4	12	18	ENE (77)	77	0	
2/23/2022 22:00	-8.8	13	18	ENE (74)	75	0	
2/23/2022 23:00	-9.6	12	19	ENE (69)	75	0	
2/24/2022 0:00	-10.2	13	19	E (83)	75	0	
2/24/2022 1:00	-10.4	12	16	E (80)	76	0	
2/24/2022 2:00	-10.4	16	23	ENE (66)	76	0	
2/24/2022 3:00	-10.6	17	23	E (84)	75	0	
2/24/2022 4:00	-10.5	16	23	ENE (71)	73	0	
2/24/2022 5:00	-10.2	17	26	E (79)	72	0	
2/24/2022 6:00	-10.5	15	22	E (86)	74	0	
2/24/2022 7:00	-10.3	18	24	ENE (73)	73	0	0
2/24/2022 8:00	-9.7	19	24	E (101)	69	0	
2/24/2022 9:00	-8.7	20	26	E (89)	69	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/24/2022 10:00	-7.6	21	27	E (87)	65	0	
2/24/2022 11:00	-6.6	19	27	E (85)	63	0	
2/24/2022 12:00	-5.7	16	25	E (87)	63	0	
2/24/2022 13:00	-5.1	16	24	ENE (62)	64	0	
2/24/2022 14:00	-4.6	19	30	ENE (59)	65	0	
2/24/2022 15:00	-4.4	18	28	NE (41)	65	0	
2/24/2022 16:00	-4.6	19	29	E (83)	66	0	
2/24/2022 17:00	-4.9	23	32	E (82)	66	0	
2/24/2022 18:00	-5.4	25	36	ENE (78)	66	0	
2/24/2022 19:00	-5.7	22	33	ENE (63)	67	0	
2/24/2022 20:00	-6.4	26	34	ENE (65)	67	0	
2/24/2022 21:00	-6.8	25	33	ENE (61)	67	0	
2/24/2022 22:00	-7.4	26	36	ENE (71)	79	0	
2/24/2022 23:00	-7.8	24	34	ENE (75)	86	0	
2/25/2022 0:00	-7.6	23	32	ENE (71)	88	0	
2/25/2022 1:00	-7.1	27	38	ENE (78)	87	0	
2/25/2022 2:00	-6.6	27	37	ENE (70)	87	0	
2/25/2022 3:00	-6.7	24	36	NE (56)	88	0	
2/25/2022 4:00	-7	19	29	NE (38)	89	0	
2/25/2022 5:00	-7.2	17	27	N (7)	88	0	
2/25/2022 6:00	-8.2	19	31	NW (321)	86	0	
2/25/2022 7:00	-8.7	20	29	NNE (20)	86	0	0
2/25/2022 8:00	-8.8	19	29	N (3)	85	0	
2/25/2022 9:00	-8.8	17	25	N (2)	76	0	
2/25/2022 10:00	-8.1	12	19	NW (316)	72	0.2	
2/25/2022 11:00	-7.1	17	28	NW (311)	75	0.2	
2/25/2022 12:00	-6.1	18	32	N (354)	72	0	
2/25/2022 13:00	-5.6	17	27	NNW (327)	74	0	
2/25/2022 14:00	-5.7	17	25	NNW (333)	77	0	
2/25/2022 15:00	-5.8	18	30	NW (321)	81	0	
2/25/2022 16:00	-5.9	20	29	NW (314)	83	0	
2/25/2022 17:00	-6.4	19	29	NW (306)	85	0	
2/25/2022 18:00	-6.7	17	27	NW (311)	86	0	
2/25/2022 19:00	-7.7	11	19	NW (305)	82	0	
2/25/2022 20:00	-10.2	3	8	SW (222)	86	0	
2/25/2022 21:00	-10.9	4	6	SW (229)	86	0	
2/25/2022 22:00	-10.8	5	7	SW (222)	82	0	
2/25/2022 23:00	-10.4	5	8	SSW (212)	81	0	
2/26/2022 0:00	-10.8	5	7	SSW (202)	82	0	
2/26/2022 1:00	-10.2	5	8	SW (220)	83	0	
2/26/2022 2:00	-9.5	8	12	SW (224)	83	0	
2/26/2022 3:00	-8.6	9	13	WSW (249)	84	0	
2/26/2022 4:00	-8.7	7	14	SW (220)	86	0	
2/26/2022 5:00	-8.4	9	14	SW (232)	88	0	
2/26/2022 6:00	-8.9	9	14	SW (216)	88	0	
2/26/2022 7:00	-8.8	8	13	SSW (213)	89	0	0.4
2/26/2022 8:00	-7.4	9	16	SW (230)	87	0	
2/26/2022 9:00	-5.7	12	21	SW (230)	83	0	
2/26/2022 10:00	-4.6	19	29	SW (220)	71	0	
2/26/2022 11:00	-3.8	20	30	SW (221)	70	0	
2/26/2022 12:00	-3.5	23	32	SW (226)	71	0	
2/26/2022 13:00	-3	23	35	SW (229)	71	0	
2/26/2022 14:00	-2.7	26	38	W (264)	64	0	
2/26/2022 15:00	-2.3	23	33	WNW (282)	58	0	
2/26/2022 16:00	-2	21	32	SW (235)	55	0	
2/26/2022 17:00	-2.3	21	31	WSW (249)	54	0	
2/26/2022 18:00	-3.5	16	26	SW (227)	59	0	
2/26/2022 19:00	-4.2	14	22	SSW (209)	64	0	
2/26/2022 20:00	-4.3	17	28	SW (215)	67	0	
2/26/2022 21:00	-4.4	24	39	SW (225)	68	0	
2/26/2022 22:00	-4.6	25	39	SW (228)	71	0	
2/26/2022 23:00	-4.9	23	32	SW (218)	73	0	
2/27/2022 0:00	-5.2	21	31	SW (223)	75	0	
2/27/2022 1:00	-5.4	21	29	SSW (212)	77	0	
2/27/2022 2:00	-5.2	25	34	SW (223)	76	0	
2/27/2022 3:00	-5.2	27	41	WSW (240)	77	0	
2/27/2022 4:00	-5.1	27	36	SW (224)	78	0	
2/27/2022 5:00	-5.2	24	32	SW (223)	80	0	
2/27/2022 6:00	-5.3	24	31	SW (227)	81	0	
2/27/2022 7:00	-4.8	21	29	WSW (241)	81	0	0
2/27/2022 8:00	-3.4	24	35	W (259)	78	0	
2/27/2022 9:00	-2.4	23	35	W (262)	77	0	
2/27/2022 10:00	-1	22	33	WNW (297)	74	0.2	
2/27/2022 11:00	-0.5	26	42	WNW (286)	70	0	
2/27/2022 12:00	-0.2	26	40	WNW (292)	62	0	
2/27/2022 13:00	-0.3	25	35	NW (306)	62	0	
2/27/2022 14:00	-0.3	24	35	WNW (291)	67	0	
2/27/2022 15:00	-0.5	24	39	NNW (327)	73	0	
2/27/2022 16:00	-1.3	16	24	NW (313)	77	0	
2/27/2022 17:00	-0.8	18	29	WNW (300)	71	0	
2/27/2022 18:00	-1.3	18	28	NNW (337)	69	0	
2/27/2022 19:00	-2.4	14	26	N (351)	68	0	
2/27/2022 20:00	-3.3	12	24	NNW (344)	69	0	
2/27/2022 21:00	-3.7	16	25	N (355)	71	0	
2/27/2022 22:00	-3.9	11	21	NNW (332)	72	0	
2/27/2022 23:00	-4	12	21	NNW (334)	70	0	
2/28/2022 0:00	-4.4	10	18	NNW (340)	68	0	
2/28/2022 1:00	-4.5	11	19	NNW (330)	68	0	
2/28/2022 2:00	-4.9	12	21	NNW (331)	66	0	
2/28/2022 3:00	-5.4	9	16	NW (321)	61	0	
2/28/2022 4:00	-5.9	6	11	NW (319)	67	0	
2/28/2022 5:00	-6.6	1	8	ENE (64)	78	0	
2/28/2022 6:00	-6.8	1	3	ESE (123)	83	0	
2/28/2022 7:00	-6.2	1	3	SE (126)	79	0	0.2
2/28/2022 8:00	-5.8	7	17	ESE (115)	79	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/28/2022 9:00	-4.6	15	22	SE (133)	66	0	
2/28/2022 10:00	-3.5	16	25	SE (144)	64	0	
2/28/2022 11:00	-2.7	20	28	SSE (156)	66	0	
2/28/2022 12:00	-2.6	19	32	SSE (167)	68	0	
2/28/2022 13:00	-2.5	20	29	SSE (149)	69	0	
2/28/2022 14:00	-3.3	26	33	SE (128)	74	0	
2/28/2022 15:00	-3.3	26	33	SSE (150)	71	0	
2/28/2022 16:00	-3.6	25	33	SE (138)	73	0	
2/28/2022 17:00	-3.6	22	30	SE (126)	73	0	
2/28/2022 18:00	-3.9	26	37	SE (130)	73	0	
2/28/2022 19:00	-4.2	28	37	ESE (123)	73	0	
2/28/2022 20:00	-4.3	30	37	SE (132)	72	0	
2/28/2022 21:00	-4.1	29	37	SE (132)	73	0	
2/28/2022 22:00	-3.9	31	38	SE (136)	75	0	
2/28/2022 23:00	-3.3	32	39	ESE (118)	76	0	
3/1/2022 0:00	-2.7	30	40	SE (136)	77	0	
3/1/2022 1:00	-2.5	19	30	SSE (154)	79	0	
3/1/2022 2:00	-2.7	13	18	SSE (158)	81	0	
3/1/2022 3:00	-2.2	9	15	SSW (192)	82	0	
3/1/2022 4:00	-1.4	8	14	SW (215)	84	0	
3/1/2022 5:00	-1	8	14	S (190)	86	0	
3/1/2022 6:00	-1.1	6	14	S (184)	86	0	
3/1/2022 7:00	-0.6	7	12	SW (216)	87	0	0
3/1/2022 8:00	0.7	10	19	SSW (203)	83	0	
3/1/2022 9:00	1.6	13	22	SSW (205)	79	0	
3/1/2022 10:00	2.4	14	23	SW (220)	79	0	
3/1/2022 11:00	2.9	14	22	SW (232)	76	0	
3/1/2022 12:00	3.4	12	19	WSW (241)	76	0	
3/1/2022 13:00	3.6	15	25	WNW (303)	77	0	
3/1/2022 14:00	3.9	18	28	NW (314)	75	0	
3/1/2022 15:00	3.9	21	30	NW (319)	74	0	
3/1/2022 16:00	3.2	19	26	NNW (333)	71	0	
3/1/2022 17:00	1.6	14	25	N (349)	75	0	
3/1/2022 18:00	0.3	12	20	NW (325)	81	0	
3/1/2022 19:00	0	12	25	NNW (342)	80	0	
3/1/2022 20:00	-0.4	11	22	NNE (14)	81	0	
3/1/2022 21:00	-0.5	8	17	N (6)	81	0	
3/1/2022 22:00	-0.7	6	12	WNW (294)	82	0	
3/1/2022 23:00	-0.9	4	9	NW (309)	85	0	
3/2/2022 0:00	-1.7	2	4	WNW (293)	91	0	
3/2/2022 1:00	-2.2	5	7	NW (318)	95	0	
3/2/2022 2:00	-2.3	4	7	WSW (246)	96	0	
3/2/2022 3:00	-2.6	3	6	NW (305)	100	0	
3/2/2022 4:00	-2.6	3	5	W (276)	100	0	
3/2/2022 5:00	-3.2	5	9	W (270)	100	0	
3/2/2022 6:00	-3.8	4	7	WSW (248)	100	0	
3/2/2022 7:00	-3.7	4	7	SW (217)	100	0	0
3/2/2022 8:00	-2.7	5	9	WSW (247)	99	0	
3/2/2022 9:00	-1.4	6	13	SW (226)	93	0	
3/2/2022 10:00	-0.3	11	23	SSW (201)	74	0	
3/2/2022 11:00	0.5	17	29	SW (226)	72	0	
3/2/2022 12:00	1.1	20	28	WSW (256)	71	0	
3/2/2022 13:00	1.5	20	31	WSW (242)	69	0	
3/2/2022 14:00	1.6	17	28	SW (222)	70	0	
3/2/2022 15:00	2.1	15	24	SSW (204)	70	0	
3/2/2022 16:00	2.6	15	26	SW (230)	71	0	
3/2/2022 17:00	2.3	8	14	SW (222)	76	0	
3/2/2022 18:00	1.9	6	10	WNW (290)	80	0	
3/2/2022 19:00	1.7	8	17	WNW (291)	86	0.2	
3/2/2022 20:00	0.3	14	22	NW (318)	100	0	
3/2/2022 21:00	-0.7	29	47	N (2)	100	0	
3/2/2022 22:00	-2.8	29	51	NNW (340)	91	0	
3/2/2022 23:00	-3.9	29	53	N (350)	75	0	
3/3/2022 0:00	-4.7	29	44	N (350)	72	0	
3/3/2022 1:00	-4.8	28	38	NW (324)	72	0	
3/3/2022 2:00	-4.9	30	43	NW (324)	74	0	
3/3/2022 3:00	-4.9	27	39	NW (325)	74	0	
3/3/2022 4:00	-5.1	22	33	NW (321)	74	0	
3/3/2022 5:00	-5.6	14	25	NNW (348)	84	0	
3/3/2022 6:00	-6.4	7	14	NW (315)	87	0	
3/3/2022 7:00	-6.7	6	11	ENE (64)	85	0	0.2
3/3/2022 8:00	-6.4	4	8	NNE (28)	78	0	
3/3/2022 9:00	-6	3	8	NNE (15)	71	0.6	
3/3/2022 10:00	-5.9	3	6	WNW (295)	76	0.4	
3/3/2022 11:00	-5.3	7	23	N (350)	77	0	
3/3/2022 12:00	-5	16	26	NW (307)	74	0	
3/3/2022 13:00	-4.8	22	33	NW (324)	62	0	
3/3/2022 14:00	-4.9	18	27	NW (317)	66	0	
3/3/2022 15:00	-5.3	15	25	NNW (339)	70	0	
3/3/2022 16:00	-5.5	14	23	NNW (336)	70	0	
3/3/2022 17:00	-5.9	15	24	NNE (13)	63	0	
3/3/2022 18:00	-7.1	8	15	ENE (69)	63	0	
3/3/2022 19:00	-7.9	3	10	SE (134)	73	0	
3/3/2022 20:00	-8.3	8	10	ESE (115)	78	0	
3/3/2022 21:00	-8.4	10	14	SSE (152)	79	0	
3/3/2022 22:00	-8.2	13	18	SE (140)	77	0	
3/3/2022 23:00	-8.2	12	16	SSE (151)	77	0	
3/4/2022 0:00	-8.8	10	14	S (188)	80	0	
3/4/2022 1:00	-9.4	7	13	S (181)	82	0	
3/4/2022 2:00	-9.2	9	12	S (187)	80	0	
3/4/2022 3:00	-8.8	8	11	S (184)	81	0	
3/4/2022 4:00	-8.2	8	13	SSW (203)	82	0	
3/4/2022 5:00	-7.7	9	14	SSW (201)	83	0	
3/4/2022 6:00	-7.1	12	18	SSW (208)	83	0	
3/4/2022 7:00	-6.6	11	17	SSW (207)	83	0	1

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/4/2022 8:00	-5.5	11	18	SW (226)	82	0	
3/4/2022 9:00	-3.7	16	25	WSW (249)	77	0	
3/4/2022 10:00	-2.5	19	26	SW (232)	69	0	
3/4/2022 11:00	-1.6	18	28	SSW (199)	65	0	
3/4/2022 12:00	-0.6	14	22	SW (220)	64	0	
3/4/2022 13:00	0	17	30	SSW (212)	62	0	
3/4/2022 14:00	0.6	18	29	SSW (210)	63	0	
3/4/2022 15:00	1.1	15	26	SW (219)	58	0	
3/4/2022 16:00	-0.5	9	17	SW (215)	65	0	
3/4/2022 17:00							
3/4/2022 18:00							
3/4/2022 19:00	-1.3	11	18	S (183)	67	0	
3/4/2022 20:00	-1.7	8	15	SW (216)	68	0	
3/4/2022 21:00	-2.1	6	10	SE (130)	65	0	
3/4/2022 22:00	-2.3	10	15	SE (131)	68	0	
3/4/2022 23:00	-2.7	10	15	E (94)	70	0	
3/5/2022 0:00	-2.6	11	17	ESE (119)	71	0	
3/5/2022 1:00	-2.5	13	16	ESE (117)	72	0	
3/5/2022 2:00	-2.5	15	19	SE (131)	73	0	
3/5/2022 3:00	-2.5	17	22	ESE (106)	72	0	
3/5/2022 4:00	-2.4	18	25	ESE (115)	71	0	
3/5/2022 5:00	-2.2	21	27	ESE (119)	66	0	
3/5/2022 6:00	-1.8	19	27	ESE (112)	63	0	
3/5/2022 7:00	-1.4	23	30	ESE (106)	63	0	0
3/5/2022 8:00	-0.6	27	37	ESE (115)	57	0	
3/5/2022 9:00	0.4	32	41	ESE (118)	52	0	
3/5/2022 10:00	1.3	29	39	ESE (114)	51	0	
3/5/2022 11:00	2.7	28	37	ESE (118)	50	0	
3/5/2022 12:00	4.5	31	38	ESE (108)	47	0	
3/5/2022 13:00	6.5	33	44	ESE (122)	43	0	
3/5/2022 14:00	7.9	30	42	SE (137)	41	0	
3/5/2022 15:00	7.9	30	44	SE (131)	42	0	
3/5/2022 16:00	7.2	30	40	SE (132)	46	0	
3/5/2022 17:00	6.4	30	38	ESE (122)	49	0	
3/5/2022 18:00	6	28	35	SE (129)	52	0	
3/5/2022 19:00	5.9	28	34	SE (126)	55	0	
3/5/2022 20:00	5.8	29	42	SE (136)	58	0	
3/5/2022 21:00	5.6	28	34	SE (129)	63	0	
3/5/2022 22:00	6.3	24	31	SSE (160)	66	0	
3/5/2022 23:00	9.4	18	29	SSW (197)	64	0	
3/6/2022 0:00	11.9	17	33	SSW (192)	63	0	
3/6/2022 1:00	13.3	21	39	SW (215)	66	0	
3/6/2022 2:00	14.2	24	40	SW (223)	67	0	
3/6/2022 3:00	13.6	24	41	SW (220)	76	0.2	
3/6/2022 4:00	12.7	26	39	SSW (208)	86	0	
3/6/2022 5:00	12.7	26	40	SSW (206)	93	0	
3/6/2022 6:00	12.4	25	39	SSW (210)	95	0	
3/6/2022 7:00	12.3	29	44	SSW (208)	85	0	0.2
3/6/2022 8:00	12.4	32	58	SSW (196)	78	0	
3/6/2022 9:00	13.2	38	60	SW (233)	74	0	
3/6/2022 10:00	14.6	40	58	WSW (241)	66	0	
3/6/2022 11:00	15.4	41	58	SW (232)	61	0	
3/6/2022 12:00	14.8	43	66	SW (230)	47	0	
3/6/2022 13:00	13.3	42	61	WSW (238)	49	0	
3/6/2022 14:00	11.2	40	58	W (267)	56	0	
3/6/2022 15:00	8.9	33	50	W (269)	61	0	
3/6/2022 16:00	6.2	30	47	WNW (286)	70	0	
3/6/2022 17:00	4	24	43	WNW (287)	74	0	
3/6/2022 18:00	3.4	20	31	WNW (286)	74	0	
3/6/2022 19:00	3	19	35	W (281)	75	0	
3/6/2022 20:00	2.6	10	20	W (268)	78	0	
3/6/2022 21:00	2.3	9	16	WSW (255)	79	0	
3/6/2022 22:00	1.9	5	9	WNW (290)	80	0	
3/6/2022 23:00	1.7	6	12	WNW (294)	80	0	
3/7/2022 0:00	1.4	3	7	WNW (287)	81	0	
3/7/2022 1:00	1.1	3	8	SSW (200)	83	0	
3/7/2022 2:00	0.8	4	9	NNW (336)	85	0	
3/7/2022 3:00	0.7	4	12	NNE (22)	83	0	
3/7/2022 4:00	0.5	5	12	NE (40)	85	0.2	
3/7/2022 5:00	0.3	7	11	ENE (65)	95	1.6	
3/7/2022 6:00	0	12	24	ENE (65)	100	1.2	
3/7/2022 7:00	0	16	27	E (88)	100	1.2	4.2
3/7/2022 8:00	0	11	18	E (84)	100	0.4	
3/7/2022 9:00	0.1	9	14	SE (137)	100	0	
3/7/2022 10:00	0.3	4	11	NW (318)	100	0.6	
3/7/2022 11:00	0.4	10	20	NW (314)	100	0.4	
3/7/2022 12:00	0.3	19	28	NNW (329)	100	0.2	
3/7/2022 13:00	0	23	34	NW (322)	100	0	
3/7/2022 14:00	-0.6	27	42	NW (319)	100	0.2	
3/7/2022 15:00	-0.9	27	37	WNW (300)	100	0	
3/7/2022 16:00	-1	27	40	NW (306)	100	0	
3/7/2022 17:00	-1	25	35	WNW (302)	100	0	
3/7/2022 18:00	-0.8	25	37	WNW (282)	95	0	
3/7/2022 19:00	-0.6	19	30	WNW (290)	91	0	
3/7/2022 20:00	-0.4	24	38	NW (315)	90	0	
3/7/2022 21:00	-0.7	26	39	NW (316)	74	0	
3/7/2022 22:00	-0.8	20	35	WNW (303)	73	0	
3/7/2022 23:00	-0.9	19	31	NW (308)	74	0	
3/8/2022 0:00	-1.2	21	32	WNW (302)	78	0	
3/8/2022 1:00	-1.8	20	31	WNW (288)	82	0	
3/8/2022 2:00	-2.1	24	38	WNW (300)	75	0	
3/8/2022 3:00	-2.5	23	33	WNW (297)	68	0	
3/8/2022 4:00	-3	19	29	NW (305)	72	0	
3/8/2022 5:00	-3.4	14	23	NW (309)	75	0	
3/8/2022 6:00	-3.7	11	17	WNW (303)	75	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/8/2022 7:00	-3.6	7	12	WNW (294)	74	0	1.8
3/8/2022 8:00	-2.7	9	14	NNW (330)	72	0	
3/8/2022 9:00	-1.8	8	17	WSW (254)	67	0	
3/8/2022 10:00	-1	8	16	SW (222)	66	0	
3/8/2022 11:00	-0.7	11	21	SSW (212)	68	0	
3/8/2022 12:00	-0.4	10	19	SSW (212)	70	0	
3/8/2022 13:00	-0.3	10	18	SSE (168)	70	0	
3/8/2022 14:00	0.3	10	19	S (190)	65	0	
3/8/2022 15:00	0.4	13	24	SSW (193)	67	0	
3/8/2022 16:00	0.3	14	23	S (177)	72	0	
3/8/2022 17:00	0.1	15	24	SSE (160)	72	0	
3/8/2022 18:00	-0.3	15	23	SSE (161)	76	0	
3/8/2022 19:00	-0.8	12	17	SSE (153)	78	0	
3/8/2022 20:00	-1.3	11	16	SSE (164)	78	0	
3/8/2022 21:00	-1.5	13	18	SSE (163)	78	0	
3/8/2022 22:00	-1.7	11	15	SSE (155)	79	0	
3/8/2022 23:00	-1.7	11	15	SSE (157)	80	0	
3/9/2022 0:00	-1.9	8	16	S (171)	81	0	
3/9/2022 1:00	-2.3	6	9	SSE (155)	86	0	
3/9/2022 2:00	-2.2	4	8	E (96)	87	0	
3/9/2022 3:00	-2.1	3	5	ESE (113)	88	0	
3/9/2022 4:00	-2.4	6	16	SE (144)	97	0	
3/9/2022 5:00	-2.1	14	20	SSE (162)	94	0	
3/9/2022 6:00	-2	8	14	S (176)	89	0	
3/9/2022 7:00	-2.1	6	10	S (169)	85	0	0
3/9/2022 8:00	-1	5	10	WSW (257)	81	0	
3/9/2022 9:00	-0.3	7	12	WSW (245)	81	0	
3/9/2022 10:00	0.6	8	14	SW (230)	79	0	
3/9/2022 11:00	1	8	16	SSW (212)	73	0	
3/9/2022 12:00	2	10	18	SW (231)	68	0	
3/9/2022 13:00	3	13	24	SSW (202)	64	0	
3/9/2022 14:00	3.6	14	24	SW (226)	63	0	
3/9/2022 15:00	4.6	15	27	WSW (248)	61	0	
3/9/2022 16:00	4.8	16	26	S (184)	60	0	
3/9/2022 17:00	4.3	14	22	SSW (202)	60	0	
3/9/2022 18:00	3.4	11	19	SSW (198)	69	0	
3/9/2022 19:00	2.3	8	17	SW (218)	78	0	
3/9/2022 20:00	2	11	21	W (276)	78	0	
3/9/2022 21:00	1.1	11	22	WNW (283)	73	0	
3/9/2022 22:00	0.7	15	23	WNW (282)	71	0	
3/9/2022 23:00	-0.5	10	16	W (278)	78	0	
3/10/2022 0:00	-1.1	11	17	WNW (303)	78	0	
3/10/2022 1:00	-1.4	13	19	NNW (332)	75	0	
3/10/2022 2:00	-1.8	13	18	NW (312)	72	0	
3/10/2022 3:00	-2.2	11	18	WNW (302)	73	0	
3/10/2022 4:00	-2.6	8	13	WNW (289)	74	0	
3/10/2022 5:00	-3.1	3	7	WNW (290)	77	0	
3/10/2022 6:00	-3.3	4	7	SSW (198)	78	0	
3/10/2022 7:00	-3.2	5	8	SSW (202)	79	0	0
3/10/2022 8:00	-2.2	6	10	W (276)	79	0	
3/10/2022 9:00	-1	6	12	W (263)	70	0	
3/10/2022 10:00	-0.4	7	15	WSW (237)	63	0	
3/10/2022 11:00	0.2	10	18	WNW (289)	59	0	
3/10/2022 12:00	0.7	9	20	W (261)	58	0	
3/10/2022 13:00	1.5	10	21	WSW (258)	57	0	
3/10/2022 14:00	2.1	9	20	SW (216)	56	0	
3/10/2022 15:00	1.9	9	17	NNW (346)	58	0	
3/10/2022 16:00	1.5	6	10	NW (318)	58	0	
3/10/2022 17:00	1.1	9	19	NNE (13)	65	0	
3/10/2022 18:00	-0.3	9	16	N (2)	72	0	
3/10/2022 19:00	-1.4	10	15	N (3)	80	0	
3/10/2022 20:00	-2.3	12	17	N (10)	82	0	
3/10/2022 21:00	-2.5	9	14	NE (47)	82	0	
3/10/2022 22:00	-2.4	6	11	NNE (28)	77	0	
3/10/2022 23:00	-2.3	4	7	NE (39)	81	0	
3/11/2022 0:00	-2.4	6	11	N (11)	84	0	
3/11/2022 1:00	-2.2	9	14	NNE (25)	83	0	
3/11/2022 2:00	-2.2	10	16	N (7)	100	0	
3/11/2022 3:00	-2.7	7	10	NNE (18)	100	0	
3/11/2022 4:00	-2.8	6	10	NNW (346)	100	0	
3/11/2022 5:00	-3.1	7	11	NNE (29)	100	0	
3/11/2022 6:00	-3.2	7	12	NE (46)	100	0	
3/11/2022 7:00	-3	6	10	NE (54)	100	0	0
3/11/2022 8:00	-2.8	9	16	E (101)	100	0	
3/11/2022 9:00	-2	9	13	SE (141)	100	0.2	
3/11/2022 10:00	-1.4	7	11	SE (130)	96	2	
3/11/2022 11:00	-1.3	5	10	W (273)	95	0.4	
3/11/2022 12:00	-1.4	7	11	WNW (301)	95	0	
3/11/2022 13:00	-2	13	22	NW (325)	97	0.2	
3/11/2022 14:00	-2.8	13	19	NW (311)	96	0	
3/11/2022 15:00	-3.1	13	19	NW (325)	92	0	
3/11/2022 16:00	-3.4	10	14	NNW (330)	87	0	
3/11/2022 17:00	-3.5	6	11	NW (309)	85	0	
3/11/2022 18:00	-3.6	4	7	NNW (332)	86	0	
3/11/2022 19:00	-4.1	3	6	SW (225)	89	0	
3/11/2022 20:00	-4.3	5	8	SW (221)	89	0	
3/11/2022 21:00	-4.4	8	11	WSW (242)	87	0	
3/11/2022 22:00	-4.3	8	12	SW (219)	82	0	
3/11/2022 23:00	-4.1	20	43	WNW (298)	80	0	
3/12/2022 0:00	-4.3	27	38	WNW (300)	80	0	
3/12/2022 1:00	-5.6	31	49	WNW (298)	70	0	
3/12/2022 2:00	-6.9	28	37	WNW (291)	57	0	
3/12/2022 3:00	-7.7	27	40	WNW (289)	64	0	
3/12/2022 4:00	-8.2	29	41	NW (308)	64	0	
3/12/2022 5:00	-8.6	28	39	WNW (296)	63	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/12/2022 6:00	-9	26	37	W (278)	65	0	
3/12/2022 7:00	-9.2	25	38	WNW (286)	66	0	2.8
3/12/2022 8:00	-9	28	38	WNW (300)	65	0	
3/12/2022 9:00	-8.5	32	45	WNW (297)	66	0	
3/12/2022 10:00	-8.1	31	45	WNW (289)	64	0	
3/12/2022 11:00	-7.8	31	44	W (276)	61	0	
3/12/2022 12:00	-7.5	33	46	NW (306)	55	0	
3/12/2022 13:00	-7.6	36	49	NW (316)	53	0	
3/12/2022 14:00	-7.4	34	51	W (274)	57	0	
3/12/2022 15:00	-7.4	33	50	WNW (303)	55	0	
3/12/2022 16:00	-7.7	37	54	W (275)	59	0	
3/12/2022 17:00	-7.9	35	54	WNW (287)	55	0	
3/12/2022 18:00	-8	35	48	W (280)	52	0	
3/12/2022 19:00	-8.1	33	50	WNW (297)	52	0	
3/12/2022 20:00	-8.5	30	45	WNW (297)	55	0	
3/12/2022 21:00	-8.5	27	44	WNW (295)	58	0	
3/12/2022 22:00	-8.6	21	32	WSW (253)	58	0	
3/12/2022 23:00	-9.4	21	31	WSW (256)	61	0	
3/13/2022 0:00	-10.3	19	29	WSW (240)	64	0	
3/13/2022 1:00	-11.4	14	23	WSW (237)	67	0	
3/13/2022 2:00	-12.1	12	18	SSW (200)	70	0	
3/13/2022 3:00							
3/13/2022 4:00	-12.2	9	15	SSW (200)	71	0	
3/13/2022 5:00	-11.3	10	22	SSE (166)	72	0	
3/13/2022 6:00	-10.3	14	23	SSE (167)	73	0	
3/13/2022 7:00	-9.4	17	29	SSW (204)	73	0	
3/13/2022 8:00	-8.4	18	33	S (174)	74	0	0
3/13/2022 9:00	-7.4	25	45	S (183)	77	0	
3/13/2022 10:00	-6.9	20	33	SSW (205)	82	0	
3/13/2022 11:00	-6.1	20	35	SSW (207)	82	0	
3/13/2022 12:00	-5	20	33	SW (216)	82	0	
3/13/2022 13:00	-4.4	22	35	SW (224)	82	0	
3/13/2022 14:00	-3.8	23	34	SW (226)	82	0	
3/13/2022 15:00	-2.8	20	32	SSW (203)	79	0	
3/13/2022 16:00	-2.2	15	25	SSW (205)	77	0	
3/13/2022 17:00	-1.4	8	15	S (183)	73	0	
3/13/2022 18:00	-0.8	7	11	SE (136)	75	0	
3/13/2022 19:00	-1.4	13	19	ESE (112)	79	0	
3/13/2022 20:00	-1.9	15	19	ESE (118)	80	0	
3/13/2022 21:00	-2	12	20	SE (137)	81	0	
3/13/2022 22:00	-2.3	6	10	SSE (161)	82	0	
3/13/2022 23:00	-2.5	9	17	SSE (162)	82	0	
3/14/2022 0:00	-2.7	11	16	SSW (207)	84	0	
3/14/2022 1:00	-3.1	8	15	SSW (195)	85	0	
3/14/2022 2:00	-2.2	4	8	SSE (159)	81	0	
3/14/2022 3:00	-3.2	5	12	S (169)	83	0	
3/14/2022 4:00	-2.6	11	14	SSE (168)	82	0	
3/14/2022 5:00	-2.5	9	13	SE (134)	82	0	
3/14/2022 6:00	-1.7	10	19	S (171)	81	0	
3/14/2022 7:00	-1	8	13	S (185)	82	0	
3/14/2022 8:00	-0.7	6	11	S (171)	84	0	0
3/14/2022 9:00	0.6	10	15	SW (220)	83	0	
3/14/2022 10:00	3	6	13	S (176)	80	0	
3/14/2022 11:00	5.1	10	19	SSE (166)	72	0	
3/14/2022 12:00	6.1	13	21	SSE (151)	71	0	
3/14/2022 13:00	7.5	15	28	SSE (158)	70	0	
3/14/2022 14:00	8.2	16	28	S (189)	65	0	
3/14/2022 15:00	8.2	16	26	S (179)	65	0	
3/14/2022 16:00	8	11	19	S (178)	65	0	
3/14/2022 17:00	8.5	7	17	WSW (249)	66	0	
3/14/2022 18:00	7.8	3	6	NNE (32)	74	0	
3/14/2022 19:00	6.2	3	16	ENE (69)	81	0	
3/14/2022 20:00	5	6	9	N (10)	81	0	
3/14/2022 21:00	3.4	5	8	N (11)	83	0	
3/14/2022 22:00	2.5	3	7	NNW (328)	85	0	
3/14/2022 23:00	1.4	4	9	NNW (346)	91	0	
3/15/2022 0:00	0.4	5	10	NNE (16)	100	0	
3/15/2022 1:00	0.5	9	16	NE (36)	100	0	
3/15/2022 2:00	0.9	11	15	ENE (57)	96	0	
3/15/2022 3:00	1	9	12	NE (55)	97	0	
3/15/2022 4:00	0.9	9	12	ENE (60)	97	0	
3/15/2022 5:00	0.7	8	12	ENE (63)	100	0	
3/15/2022 6:00	0.7	8	14	E (81)	100	0	
3/15/2022 7:00	1	13	17	ENE (77)	99	0	
3/15/2022 8:00	1.2	11	16	ENE (64)	96	0	0
3/15/2022 9:00							
3/15/2022 10:00	2.9	10	16	ENE (61)	83	0	
3/15/2022 11:00	3.4	13	17	E (80)	80	0	
3/15/2022 12:00	3.8	11	17	ENE (61)	80	0	
3/15/2022 13:00	3.6	7	10	ENE (70)	84	0	
3/15/2022 14:00	4	6	9	E (93)	84	0	
3/15/2022 15:00	4	7	11	NE (48)	83	0	
3/15/2022 16:00	4.1	10	13	E (86)	86	0	
3/15/2022 17:00	4.2	9	14	E (81)	86	0	
3/15/2022 18:00	4.4	4	12	SSW (209)	81	0	
3/15/2022 19:00	3.7	2	5	SE (138)	91	0	
3/15/2022 20:00	2.5	6	11	SE (131)	96	0	
3/15/2022 21:00	1.9	9	12	SE (140)	100	0	
3/15/2022 22:00	0.5	5	9	ESE (113)	100	0	
3/15/2022 23:00	0.3	6	11	SE (124)	100	0	
3/16/2022 0:00	0.4	10	13	SE (136)	100	0	
3/16/2022 1:00	0.1	12	16	ESE (107)	100	0	
3/16/2022 2:00	-1.1	9	15	ESE (123)	100	0	
3/16/2022 3:00	-1.5	8	12	SSE (149)	100	0	
3/16/2022 4:00	-1.7	8	12	SSE (164)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/16/2022 5:00	-1.8	9	14	SE (145)	100	0	
3/16/2022 6:00	-2	8	12	SE (135)	100	0	
3/16/2022 7:00	-2.2	9	14	SSE (149)	100	0	
3/16/2022 8:00	-2.3	9	13	SE (135)	100	0	0
3/16/2022 9:00	-1.4	9	15	SE (131)	100	0	
3/16/2022 10:00	-0.1	11	15	ESE (123)	100	0	
3/16/2022 11:00	2.7	12	17	SE (131)	100	0	
3/16/2022 12:00	6.8	14	20	SSE (152)	100	0	
3/16/2022 13:00	10.3	12	20	SSE (167)	84	0	
3/16/2022 14:00	12.7	12	22	SSW (211)	72	0	
3/16/2022 15:00	14.2	12	20	SSW (210)	65	0	
3/16/2022 16:00	15	13	23	SSE (164)	62	0	
3/16/2022 17:00	15.4	12	21	SE (144)	64	0	
3/16/2022 18:00	13.5	15	20	ESE (121)	71	0	
3/16/2022 19:00	11.4	16	21	SE (130)	75	0	
3/16/2022 20:00	9.5	19	27	SE (129)	79	0	
3/16/2022 21:00	6.8	23	29	SE (125)	83	0	
3/16/2022 22:00	5.4	23	31	SE (130)	84	0	
3/16/2022 23:00	4.9	23	28	SE (127)	83	0	
3/17/2022 0:00	5.2	21	27	SE (126)	81	0	
3/17/2022 1:00	5.7	21	26	SE (134)	81	0	
3/17/2022 2:00	6	21	25	SE (140)	79	0	
3/17/2022 3:00	6	19	26	SSE (153)	79	0	
3/17/2022 4:00	5.5	9	18	SE (146)	80	0	
3/17/2022 5:00	5.4	7	13	SSE (161)	80	0	
3/17/2022 6:00	5.1	12	27	SE (143)	82	0	
3/17/2022 7:00	4.7	11	16	SSE (158)	82	0	
3/17/2022 8:00	5.1	11	17	S (181)	82	0	0
3/17/2022 9:00	7.9	7	13	WSW (244)	75	0	
3/17/2022 10:00	11.4	11	17	WSW (238)	63	0	
3/17/2022 11:00	14.3	11	17	SW (225)	62	0	
3/17/2022 12:00	16.7	12	20	SSW (211)	56	0	
3/17/2022 13:00	18.7	15	24	WSW (245)	51	0	
3/17/2022 14:00	19.6	17	33	SW (221)	47	0	
3/17/2022 15:00	20.1	18	31	WSW (249)	44	0	
3/17/2022 16:00	20.2	16	26	SW (219)	43	0	
3/17/2022 17:00	19.8	14	25	SSW (209)	43	0	
3/17/2022 18:00	18.8	10	21	SSW (203)	46	0	
3/17/2022 19:00	17.1	8	12	S (189)	54	0	
3/17/2022 20:00	15.1	9	12	S (184)	60	0	
3/17/2022 21:00	14	7	11	SSW (208)	63	0	
3/17/2022 22:00	12.7	5	8	SSW (202)	65	0	
3/17/2022 23:00	11.1	3	7	SSW (211)	73	0	
3/18/2022 0:00	11	5	10	NW (316)	75	0	
3/18/2022 1:00	9.4	6	18	NNW (327)	79	0	
3/18/2022 2:00	8	10	20	NNW (332)	83	0	
3/18/2022 3:00	5.4	15	30	NNW (331)	81	0	
3/18/2022 4:00	4.3	15	25	N (5)	84	0	
3/18/2022 5:00	3.6	12	20	NNE (15)	86	0	
3/18/2022 6:00	2.6	8	17	N (352)	100	0	
3/18/2022 7:00	2	6	13	NNW (338)	100	0	
3/18/2022 8:00	2.6	7	12	N (1)	100	0	0
3/18/2022 9:00	3.5	7	13	N (350)	100	0	
3/18/2022 10:00	5.3	9	16	NNW (340)	96	0	
3/18/2022 11:00	7.9	9	16	N (350)	79	0	
3/18/2022 12:00	9.7	11	20	NNW (333)	73	0	
3/18/2022 13:00							
3/18/2022 14:00	8.5	0	0	NNE (14)	73	0	
3/18/2022 15:00	9.8	12	17	N (6)	73	0	
3/18/2022 16:00							
3/18/2022 17:00	11.3	5	9	N (0)	73	0	
3/18/2022 18:00	10.6	6	11	N (4)	77	0	
3/18/2022 19:00	12.2	19	35	E (81)	77	0	
3/18/2022 20:00	11.6	29	37	E (101)	59	0	
3/18/2022 21:00	10.2	30	41	E (93)	64	0	
3/18/2022 22:00	8.9	9	31	ESE (122)	83	1	
3/18/2022 23:00	7.7	7	15	ESE (105)	96	1	
3/19/2022 0:00	7.5	17	26	E (83)	94	0.6	
3/19/2022 1:00	7.2	18	25	E (92)	100	0.2	
3/19/2022 2:00	6.9	25	37	E (93)	94	0	
3/19/2022 3:00	6.5	23	30	ESE (111)	100	0	
3/19/2022 4:00	6.5	26	34	ESE (122)	100	0	
3/19/2022 5:00	6.3	25	32	SE (124)	100	0	
3/19/2022 6:00	6.2	25	31	ESE (116)	100	0	
3/19/2022 7:00	6.2	23	29	SE (138)	100	0.2	
3/19/2022 8:00	6.5	21	29	SE (127)	100	0	3
3/19/2022 9:00	7.3	21	30	SE (140)	100	0	
3/19/2022 10:00	8.1	20	27	SSE (148)	100	1.2	
3/19/2022 11:00	8.6	15	22	S (169)	100	0	
3/19/2022 12:00	10	12	22	SW (227)	100	0	
3/19/2022 13:00	10.4	18	33	SW (222)	100	0	
3/19/2022 14:00	9.4	20	30	SW (230)	100	1	
3/19/2022 15:00	8.7	19	28	WSW (242)	100	1.4	
3/19/2022 16:00	8.7	17	30	SW (227)	100	1	
3/19/2022 17:00	8.5	23	33	SW (231)	100	1.4	
3/19/2022 18:00	7.3	23	36	WNW (300)	100	1.8	
3/19/2022 19:00	4.9	22	36	W (269)	100	0.4	
3/19/2022 20:00							
3/19/2022 21:00							
3/19/2022 22:00							
3/19/2022 23:00							
3/20/2022 0:00							
3/20/2022 1:00							
3/20/2022 2:00							
3/20/2022 3:00							

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/20/2022 4:00							
3/20/2022 5:00							
3/20/2022 6:00							
3/20/2022 7:00							
3/20/2022 8:00							
3/20/2022 9:00	2.5	14	20	WNW (296)	86	0	
3/20/2022 10:00	3	20	31	WNW (293)	86	0	
3/20/2022 11:00	4.6	20	29	WNW (302)	80	0	
3/20/2022 12:00	6.1	20	31	WNW (301)	72	0	
3/20/2022 13:00							
3/20/2022 14:00							
3/20/2022 15:00							
3/20/2022 16:00							
3/20/2022 17:00							
3/20/2022 18:00							
3/20/2022 19:00							
3/20/2022 20:00	6.1	1	2	SE (132)	78	0	
3/20/2022 21:00	5.8	4	7	S (176)	80	0	
3/20/2022 22:00	4.8	4	7	ENE (71)	74	0	
3/20/2022 23:00	3.5	4	7	E (91)	74	0	
3/21/2022 0:00	3.5	5	8	ESE (108)	74	0	
3/21/2022 1:00	3.1	4	8	ESE (111)	72	0	
3/21/2022 2:00	3.7	3	8	ESE (122)	73	0	
3/21/2022 3:00	3.5	3	6	E (94)	66	0	
3/21/2022 4:00	2.3	5	6	ESE (102)	71	0	
3/21/2022 5:00	2	4	8	S (169)	75	0	
3/21/2022 6:00	2.7	5	9	SSW (209)	70	0	
3/21/2022 7:00	1.1	3	5	WNW (301)	83	0	
3/21/2022 8:00	2	2	4	N (9)	80	0	0
3/21/2022 9:00	4.5	4	11	NNE (26)	71	0	
3/21/2022 10:00	7.7	6	10	ENE (57)	70	0	
3/21/2022 11:00	9.9	4	11	NNE (25)	44	0	
3/21/2022 12:00	11.2	3	8	SW (234)	43	0	
3/21/2022 13:00	12	6	17	NW (309)	38	0	
3/21/2022 14:00	11.4	10	20	NW (318)	49	0	
3/21/2022 15:00	10.6	14	22	NNE (12)	50	0	
3/21/2022 16:00	9.5	17	24	NE (36)	55	0	
3/21/2022 17:00	8.6	15	23	NE (40)	62	0	
3/21/2022 18:00	7.1	17	25	NNE (24)	70	0	
3/21/2022 19:00	5.3	16	25	NE (41)	82	0	
3/21/2022 20:00	4	14	20	NE (42)	95	0	
3/21/2022 21:00	3.3	12	20	NE (43)	100	0	
3/21/2022 22:00	3	12	19	NE (43)	100	0	
3/21/2022 23:00	3.1	13	22	ENE (78)	100	0	
3/22/2022 0:00	3.2	16	23	NE (54)	100	0	
3/22/2022 1:00	2.8	14	23	NE (41)	79	0	
3/22/2022 2:00	2.5	12	15	ENE (62)	75	0	
3/22/2022 3:00	2.2	12	17	ENE (68)	73	0	
3/22/2022 4:00	2.2	13	18	ENE (75)	72	0	
3/22/2022 5:00	2.4	16	21	ENE (66)	64	0	
3/22/2022 6:00	2.4	17	26	ENE (75)	60	0	
3/22/2022 7:00	2.4	16	24	E (90)	55	0	
3/22/2022 8:00	2.4	17	23	E (84)	52	0	0
3/22/2022 9:00	2.5	21	30	ESE (111)	53	0	
3/22/2022 10:00	3	25	33	ESE (117)	47	0	
3/22/2022 11:00	3.6	30	39	E (100)	46	0	
3/22/2022 12:00	3.8	27	37	ESE (118)	48	0	
3/22/2022 13:00	4.2	19	25	ESE (108)	49	0	
3/22/2022 14:00	4.4	21	28	SE (126)	53	0	
3/22/2022 15:00	4.9	24	32	E (91)	55	0	
3/22/2022 16:00	5.3	30	40	E (91)	55	0	
3/22/2022 17:00	5.6	27	38	E (91)	53	0	
3/22/2022 18:00	5.8	28	39	ENE (77)	48	0	
3/22/2022 19:00	5.2	22	32	E (88)	49	0	
3/22/2022 20:00	4.8	22	32	ESE (103)	43	0	
3/22/2022 21:00	4.9	19	27	ESE (111)	39	0	
3/22/2022 22:00	4.3	23	35	E (101)	44	0	
3/22/2022 23:00	3.9	31	40	E (101)	43	0	
3/23/2022 0:00	3.3	27	38	E (97)	55	0	
3/23/2022 1:00	2.9	25	39	E (94)	62	0.6	
3/23/2022 2:00							
3/23/2022 3:00							
3/23/2022 4:00							
3/23/2022 5:00							
3/23/2022 6:00	3	39	52	E (99)	69	0	
3/23/2022 7:00	2.9	37	52	ESE (105)	72	0.2	
3/23/2022 8:00	2.9	34	48	ESE (108)	70	0.2	0.4
3/23/2022 9:00	2.5	42	59	ESE (105)	76	0.8	
3/23/2022 10:00	2.3	45	61	E (100)	81	0.6	
3/23/2022 11:00	2	45	59	ESE (113)	88	1	
3/23/2022 12:00	2.5	45	59	E (94)	89	0.4	
3/23/2022 13:00	4.2	47	61	ESE (117)	84	0	
3/23/2022 14:00	4.9	41	55	ESE (111)	80	0	
3/23/2022 15:00	5.2	37	51	ESE (104)	81	0	
3/23/2022 16:00	5.1	37	51	ESE (116)	85	0	
3/23/2022 17:00							
3/23/2022 18:00							
3/23/2022 19:00							
3/23/2022 20:00							
3/23/2022 21:00							
3/23/2022 22:00							
3/23/2022 23:00							
3/24/2022 0:00							
3/24/2022 1:00							
3/24/2022 2:00							

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/24/2022 3:00							
3/24/2022 4:00							
3/24/2022 5:00	7.4	19	32	S (190)	97	0.2	
3/24/2022 6:00	7.2	18	34	SSW (195)	99	0	
3/24/2022 7:00	7.2	18	31	SSW (211)	96	0	
3/24/2022 8:00	7.2	20	32	SSW (203)	97	0	0.2
3/24/2022 9:00	7.1	19	32	SSW (209)	100	0	
3/24/2022 10:00	8.5	25	46	SW (214)	92	0	
3/24/2022 11:00	9.3	29	43	SW (222)	73	0	
3/24/2022 12:00	9.5	30	48	SSW (201)	72	0	
3/24/2022 13:00	9.9	30	48	SW (218)	69	0	
3/24/2022 14:00	9.5	32	48	SW (215)	70	0	
3/24/2022 15:00	8.9	29	48	SW (230)	70	0	
3/24/2022 16:00	8.6	25	41	SW (224)	74	0	
3/24/2022 17:00	8.1	23	36	S (187)	76	0.2	
3/24/2022 18:00	7.5	25	42	SW (214)	81	0	
3/24/2022 19:00	6.9	17	28	SSW (211)	81	0	
3/24/2022 20:00	6.3	13	22	SW (222)	84	0	
3/24/2022 21:00	5.4	10	17	SSW (207)	86	0	
3/24/2022 22:00	4.8	11	17	SW (236)	85	0	
3/24/2022 23:00	4.6	11	17	SSW (212)	84	0	
3/25/2022 0:00	4.8	12	19	SW (221)	84	0	
3/25/2022 1:00	4.6	12	22	SSW (210)	84	0	
3/25/2022 2:00	4.6	13	20	SSW (208)	85	0	
3/25/2022 3:00	4.5	16	27	SW (226)	85	0	
3/25/2022 4:00	4.2	21	32	WSW (256)	90	0	
3/25/2022 5:00	3.3	18	29	W (269)	100	0	
3/25/2022 6:00	2.2	18	31	WSW (257)	99	0	
3/25/2022 7:00	1.8	14	24	W (278)	94	0	
3/25/2022 8:00	1.8	15	23	SW (236)	94	0	0.2
3/25/2022 9:00	2.2	18	27	WNW (283)	91	0	
3/25/2022 10:00	2.6	19	28	W (279)	82	0	
3/25/2022 11:00	3.5	19	28	W (260)	79	0	
3/25/2022 12:00	4.1	16	28	W (267)	74	0	
3/25/2022 13:00	4	17	25	W (264)	77	0	
3/25/2022 14:00	4	17	29	W (266)	83	0	
3/25/2022 15:00	4.4	18	29	WSW (239)	73	0	
3/25/2022 16:00	4.8	17	26	WSW (245)	72	0	
3/25/2022 17:00	4.6	14	24	WSW (247)	78	0	
3/25/2022 18:00	5.2	15	26	WSW (244)	71	0	
3/25/2022 19:00	5	12	17	WSW (239)	71	0	
3/25/2022 20:00	4.7	10	16	SSW (198)	73	0	
3/25/2022 21:00	4.6	10	17	SSW (194)	76	0	
3/25/2022 22:00	4.6	12	21	SW (216)	76	0	
3/25/2022 23:00	3.9	16	28	SW (231)	86	0.2	
3/26/2022 0:00	3.3	11	18	SW (226)	98	0.4	
3/26/2022 1:00	3.4	13	20	WSW (249)	100	0	
3/26/2022 2:00	3.4	12	26	W (259)	100	0	
3/26/2022 3:00	2.9	15	30	WSW (241)	100	0	
3/26/2022 4:00	2.7	16	24	WSW (244)	100	0	
3/26/2022 5:00	2.1	16	28	SW (231)	100	0.6	
3/26/2022 6:00	1.3	15	27	SW (232)	100	0.4	
3/26/2022 7:00	1.1	14	25	W (265)	100	0.4	
3/26/2022 8:00	0.4	16	24	WNW (289)	100	0.2	2.2
3/26/2022 9:00	0	17	26	NNW (331)	100	0.4	
3/26/2022 10:00	0.1	18	26	NW (325)	100	0.4	
3/26/2022 11:00	0.9	23	34	NW (319)	100	0	
3/26/2022 12:00	1.1	25	39	NW (321)	100	0	
3/26/2022 13:00	0.7	24	36	WNW (301)	100	0	
3/26/2022 14:00	0.7	26	36	NW (306)	100	0	
3/26/2022 15:00	0.2	27	41	WNW (292)	100	0	
3/26/2022 16:00	0.5	27	39	WNW (290)	94	0	
3/26/2022 17:00	0.1	27	40	WNW (297)	98	0	
3/26/2022 18:00	-0.1	28	41	NW (306)	100	0	
3/26/2022 19:00	-0.4	28	42	WNW (299)	97	0	
3/26/2022 20:00	-0.8	29	47	W (278)	95	0	
3/26/2022 21:00	-1.3	32	46	NNW (328)	87	0	
3/26/2022 22:00	-2.1	32	43	NW (306)	84	0	
3/26/2022 23:00	-3.1	32	46	W (280)	86	0	
3/27/2022 0:00	-4.2	30	46	WNW (296)	90	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/27/2022 1:00	-4.9	29	45	NW (316)	90	0	
3/27/2022 2:00	-5.4	28	42	WNW (299)	86	0	
3/27/2022 3:00	-5.6	30	41	WNW (294)	83	0	
3/27/2022 4:00	-5.7	29	44	NW (305)	84	0	
3/27/2022 5:00	-5.6	32	44	WNW (294)	76	0	
3/27/2022 6:00	-5.7	34	47	NW (310)	74	0	
3/27/2022 7:00	-6	36	53	NW (309)	73	0	
3/27/2022 8:00	-6.2	39	54	NW (304)	70	0	0.8
3/27/2022 9:00	-6.2	38	53	NW (311)	68	0	
3/27/2022 10:00	-6.3	38	56	NW (321)	68	0	
3/27/2022 11:00	-6.3	39	56	NW (316)	76	0	
3/27/2022 12:00	-6.6	34	49	NW (317)	80	0	
3/27/2022 13:00	-6.1	32	46	NW (311)	75	0	
3/27/2022 14:00	-5.8	32	50	WNW (302)	75	0	
3/27/2022 15:00	-5.4	32	48	NW (314)	56	0	
3/27/2022 16:00	-5.2	32	44	NW (312)	54	0	
3/27/2022 17:00	-5.1	29	42	NW (309)	52	0	
3/27/2022 18:00	-5.2	29	43	WNW (298)	60	0	
3/27/2022 19:00	-5.3	26	41	WNW (295)	59	0	
3/27/2022 20:00	-5.3	29	44	WNW (291)	52	0	
3/27/2022 21:00	-5.4	30	44	NW (307)	52	0	
3/27/2022 22:00	-5.8	30	43	NW (312)	52	0	
3/27/2022 23:00	-6.5	31	48	WNW (300)	65	0	
3/28/2022 0:00	-6.9	28	48	NW (326)	62	0	
3/28/2022 1:00	-7.2	30	45	WNW (298)	55	0	
3/28/2022 2:00	-7.4	31	43	WNW (303)	58	0	
3/28/2022 3:00	-7.8	31	48	NW (307)	54	0	
3/28/2022 4:00	-8	30	46	NW (310)	53	0	
3/28/2022 5:00	-8.3	29	42	W (274)	54	0	
3/28/2022 6:00	-8.2	33	46	WNW (300)	56	0	
3/28/2022 7:00	-8.2	34	49	NW (307)	60	0	
3/28/2022 8:00	-7.9	38	57	NW (310)	54	0	0
3/28/2022 9:00	-8	36	53	NW (315)	66	0	
3/28/2022 10:00	-8.8	32	49	NW (308)	81	0	
3/28/2022 11:00	-8.6	31	47	NW (314)	82	0	
3/28/2022 12:00	-7.9	33	48	WNW (300)	81	0	
3/28/2022 13:00	-7.1	35	49	NW (323)	61	0	
3/28/2022 14:00	-6.8	34	47	NW (318)	61	0	
3/28/2022 15:00	-6.4	33	50	NNW (331)	59	0	
3/28/2022 16:00							
3/28/2022 17:00	-5.7	20	32	NW (305)	54	0	
3/28/2022 18:00	-5.1	17	30	NNW (337)	52	0	
3/28/2022 19:00	-5.9	7	15	NW (323)	56	0	
3/28/2022 20:00	-6.6	1	4	N (355)	70	0	
3/28/2022 21:00	-6.9	0	2	SE (127)	77	0	
3/28/2022 22:00	-7.2	3	8	S (178)	77	0	
3/28/2022 23:00	-6.8	8	11	S (188)	65	0	
3/29/2022 0:00	-6.7	8	11	S (186)	63	0	
3/29/2022 1:00	-7	7	12	SW (236)	61	0	
3/29/2022 2:00	-8.1	9	12	WSW (245)	66	0	
3/29/2022 3:00	-8.9	9	13	W (262)	74	0	
3/29/2022 4:00	-8.7	8	13	WNW (284)	75	0	
3/29/2022 5:00	-8.3	7	11	NW (304)	67	0	
3/29/2022 6:00	-8.6	6	9	W (281)	68	0	
3/29/2022 7:00	-8.4	6	8	W (264)	68	0	
3/29/2022 8:00	-6.7	6	12	NW (326)	68	0	0
3/29/2022 9:00	-4.8	13	22	NW (318)	60	0	
3/29/2022 10:00	-4	10	17	NW (304)	59	0	
3/29/2022 11:00	-3.4	8	15	N (354)	59	0	
3/29/2022 12:00	-2.9	7	14	W (260)	58	0	
3/29/2022 13:00	-2	5	15	NNE (29)	59	0	
3/29/2022 14:00	-1.2	4	12	SSW (194)	60	0	
3/29/2022 15:00	-0.4	3	9	ESE (102)	58	0	
3/29/2022 16:00	-0.1	3	9	N (2)	57	0	
3/29/2022 17:00	0.6	4	10	ESE (106)	59	0	
3/29/2022 18:00	0.8	6	12	ESE (112)	55	0	
3/29/2022 19:00	0.1	7	9	ESE (111)	65	0	
3/29/2022 20:00	-0.7	9	19	SSE (148)	72	0	
3/29/2022 21:00	-1.5	12	18	SE (138)	75	0	
3/29/2022 22:00	-2.4	15	20	SE (139)	76	0	
3/29/2022 23:00	-2.6	14	21	ESE (105)	78	0	
3/30/2022 0:00	-2.6	18	23	SE (134)	79	0	
3/30/2022 1:00	-2.3	19	25	ESE (116)	80	0	
3/30/2022 2:00	-1.9	23	31	ESE (108)	78	0	
3/30/2022 3:00	-1.6	24	34	ESE (114)	78	0	
3/30/2022 4:00	-1.3	28	37	ESE (116)	76	0	
3/30/2022 5:00	-1.3	27	37	ESE (112)	76	0	
3/30/2022 6:00	-1.4	26	41	SE (127)	79	0	
3/30/2022 7:00	-1.4	34	47	ESE (117)	78	0	
3/30/2022 8:00	-1	37	50	ESE (110)	75	0	0
3/30/2022 9:00	-0.5	39	52	ESE (111)	72	0	
3/30/2022 10:00	0.3	41	52	ESE (114)	72	0.6	
3/30/2022 11:00	1.1	42	56	ESE (120)	72	0.6	
3/30/2022 12:00	2.9	42	54	SE (127)	68	0	
3/30/2022 13:00	4.6	41	57	SE (134)	69	0	
3/30/2022 14:00	5	37	50	SE (130)	71	0	
3/30/2022 15:00	5.5	34	47	ESE (120)	72	0	
3/30/2022 16:00	6.5	33	43	SE (136)	77	0.2	
3/30/2022 17:00	6.2	34	53	ESE (119)	83	0.2	
3/30/2022 18:00	6.9	29	36	ESE (108)	82	0	
3/30/2022 19:00	7.1	32	41	ESE (117)	79	0	
3/30/2022 20:00	7.1	32	39	ESE (117)	78	0	
3/30/2022 21:00	7.3	32	39	ESE (107)	78	0	
3/30/2022 22:00	7.8	33	41	ESE (115)	75	0	
3/30/2022 23:00	7.7	20	42	ENE (76)	78	0.4	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/31/2022 0:00	7.1	16	26	E (92)	82	0.2	
3/31/2022 1:00	8	26	34	ESE (112)	77	0	
3/31/2022 2:00	9	34	43	ESE (120)	69	0	
3/31/2022 3:00	8.9	29	41	ESE (121)	69	0	
3/31/2022 4:00	10.2	26	34	SE (143)	68	0	
3/31/2022 5:00	12.4	26	39	S (175)	70	0	
3/31/2022 6:00	14.1	32	56	S (171)	78	1	
3/31/2022 7:00	14.8	29	52	S (187)	74	0	
3/31/2022 8:00	14	34	58	S (184)	80	0	3.2
3/31/2022 9:00	13.6	34	64	WSW (253)	82	0	
3/31/2022 10:00	13.4	43	63	SSW (206)	73	0	
3/31/2022 11:00	11.6	41	60	SSW (208)	75	0	
3/31/2022 12:00	9.3	42	61	SW (221)	78	0	
3/31/2022 13:00	8.5	37	58	SW (227)	76	0	
3/31/2022 14:00	7.8	33	47	SW (222)	75	0	
3/31/2022 15:00	7.5	33	47	SW (225)	73	0	
3/31/2022 16:00	7	31	43	SW (235)	73	0	
3/31/2022 17:00	6.7	27	43	SW (231)	71	0	
3/31/2022 18:00	6.4	21	33	WSW (246)	72	0	
3/31/2022 19:00	6.1	22	34	WSW (257)	69	0	
3/31/2022 20:00	5.3	17	28	W (262)	70	0	
3/31/2022 21:00	4.7	16	26	W (272)	72	0	
3/31/2022 22:00	3.9	17	28	WNW (290)	71	0	
3/31/2022 23:00	3.2	16	28	WNW (294)	78	0	

Note: Where weather measurements are not available, the sound measurements are conservatively assumed to be valid.

APPENDIX C

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

Ontario Traffic, Inc.
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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

Ontario Traffic, Inc.
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Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topography Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2

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August 10, 2022

Ms. Angela McLachlan
Environmental Compliance Manager
Waste Management of Canada Corporation
Twin Creeks Environmental Centre
5768 Nauvoo Road (Watford)
Warwick Township, County of Lambton N0M 2S0
E: amclachl@wm.com

Re: Second Quarter 2022 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2202861-4000

Dear Ms. McLachlan,

Waste Management of Canada Corporation (WM) has retained RWDI to conduct the Second Quarter acoustic survey for 2022 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 19, 2020. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and,
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

STATEMENT OF LIMITATIONS

This report entitled Second Quarter 2022 Noise Monitoring Report: Twin Creeks Environmental Centre – Watford, ON: RWDI Project #2202861-4000 was prepared by RWDI Air Incorporated ("RWDI") for Waste Management of Canada Corporation ("Client"). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein ("Project"). The conclusions and recommendations contained in this report are based on the information available to RWDI when this report was prepared.

The conclusions and recommendations contained in this report have also been made for the specific purpose(s) set out herein. Should the Client or any other third party utilize the report and/or implement the conclusions and recommendations contained therein for any other purpose or project without the involvement of RWDI, the Client or such third party assumes any and all risk of any and all consequences arising from such use and RWDI accepts no responsibility for any liability, loss, or damage of any kind suffered by Client or any other third party arising therefrom.

CANADA'S BEST MANAGED COMPANIES Platinum member

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Finally, it is imperative that the Client and/or any party relying on the conclusions and recommendations in this report carefully review the stated assumptions contained herein and to understand the different factors which may impact the conclusions and recommendations provided.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. Landfilling during the measurement campaign occurred at the landfilling stage described in the NMP as "Phase 8 north centre area @ 250 m". The associated sound level limits are shown in **Table 3**.

Table 3: Phase 8 @ 250 Metres Sound Level Limits

Monitor	Limit (dBA)
M1	61
M2	56
M3	55
M4	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2022 Second Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ value and the average of the $L_{EQ,\ 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ,\ 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ, 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Third Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ, 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	70	65	ORNAMENT modelling	69
M2	57	N/A	Conservatively assumed to be negligible	57
M3	62	N/A	Conservatively assumed to be negligible	62
M4	55	N/A	Conservatively assumed to be negligible	55

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour in which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Average Measured $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	321	69	66	61
M2	744	Yes	321	57	52	56
M3	744	Yes	321	62	51	55
M4	744	Yes	321	55	49	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	17	68	49	55	88	233	77.3%	23.6%
M2	7	0	2	0	88	233	0.0%	0.0%
M3	4	1	0	5	88	233	1.1%	2.1%
M4	0	0	0	0	88	233	0.0%	0.0%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit in 85 instances during operational hours, 68 of which were greater than 3 dB above the limit. During non-operational hours, 104 hourly intervals in excess of the limit were recorded, 55 of which were greater than 3 dB above the limit.

At monitor M2, measured hourly sound levels exceeded the hourly limit in 7 instances during operational hours, none of which were greater than 3 dB above the limit. During non-operational hours, 2 hourly intervals in excess of the limit were recorded, none of which were greater than 3 dB above the limit.

At monitor M3, measured hourly sound levels exceeded the hourly limit in 5 instances during operational hours, 1 of which was greater than 3 dB above the limit. During non-operational hours, 5 hourly intervals in excess of the limit were recorded, 5 of which were greater than 3 dB above the limit.

At monitor M4, measured hourly sound levels did not exceed the hourly limit during operational hours. During non-operational hours, no hourly intervals in excess of the limit were recorded.

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by 3 dB or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ, 1\text{-}hr}$ levels when the TCEC was operational exceeded the prescribed sound level limits as specified in the NMP at M1 and M3 but not at M2 or M4.

Monitor M1

At monitor M1, measured hourly sound levels exceeded the hourly limit by more than 3 dB during 68 hourly intervals. Operation logs showed continuous sweeping during 43 exceedances of 3 dB or more within the periods of May 4th to 8th , 9 am to 5 pm; May 11th and 12th, 9 am to 4 pm; May 20th, 9 am to 5 pm; May 22nd, 9 am to 5 pm; May 25th and 26th, 9 am to 5 pm; and May 28th 9 am to 5 pm. For the remaining exceedances, the durations and statistical characteristics of the exceedances were similar to historically observed M1 exceedances.

A site visit to M1 was conducted by RWDI on June 21st, 2022, as recommended in the First Quarter report. Sounds at the monitor were primarily due to passenger and heavy vehicles passing by, as well as some birdsong and sweeper passbys. Noise from landfilling was not audible at M1, which is consistent with the site visits performed at M1 in 2021 and 2020. Therefore, RWDI concludes that the landfilling was not audible at M1.

Monitor M2

The measured $L_{EQ, 1\text{-}hr}$ values during the Second Quarter did not exceed the prescribed sound level limits by 3 dB or more at M2 during any hourly interval while the TCEC was operational.

Monitor M3

The measured $L_{EQ, 1\text{-}hr}$ values during the Second Quarter exceeded the prescribed sound level limits by 3 dB or more at M3 during one hourly interval while the TCEC was operational. For this time period, the sound level at M3 for the exceedance was larger than the sound level at M2 and M4 for the same time period, despite the much closer location of M2 and M4 to the landfilling activity. The sound levels at M2 and M4 were both 8 dB lower than the sound level at M3 during its exceedance. Therefore, the exceedance at M3 was not caused by landfilling.

Monitor M4

The measured $L_{EQ, 1\text{-}hr}$ values during the Second Quarter did not exceed the prescribed sound level limits by 3 dB or more at M4 during any hourly interval while the TCEC was operational.

In summary, none of the events of elevated sound level at the monitors are attributable to landfilling activity in the Second Quarter.

CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI AIR Inc.

Khalid Hussein, P.Eng.
Project Manager

Brent Langille, B.Sc., P.Geo.
Senior Consultant | Principal

KAMH/BJL/kta

Attach.

FIGURES



Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

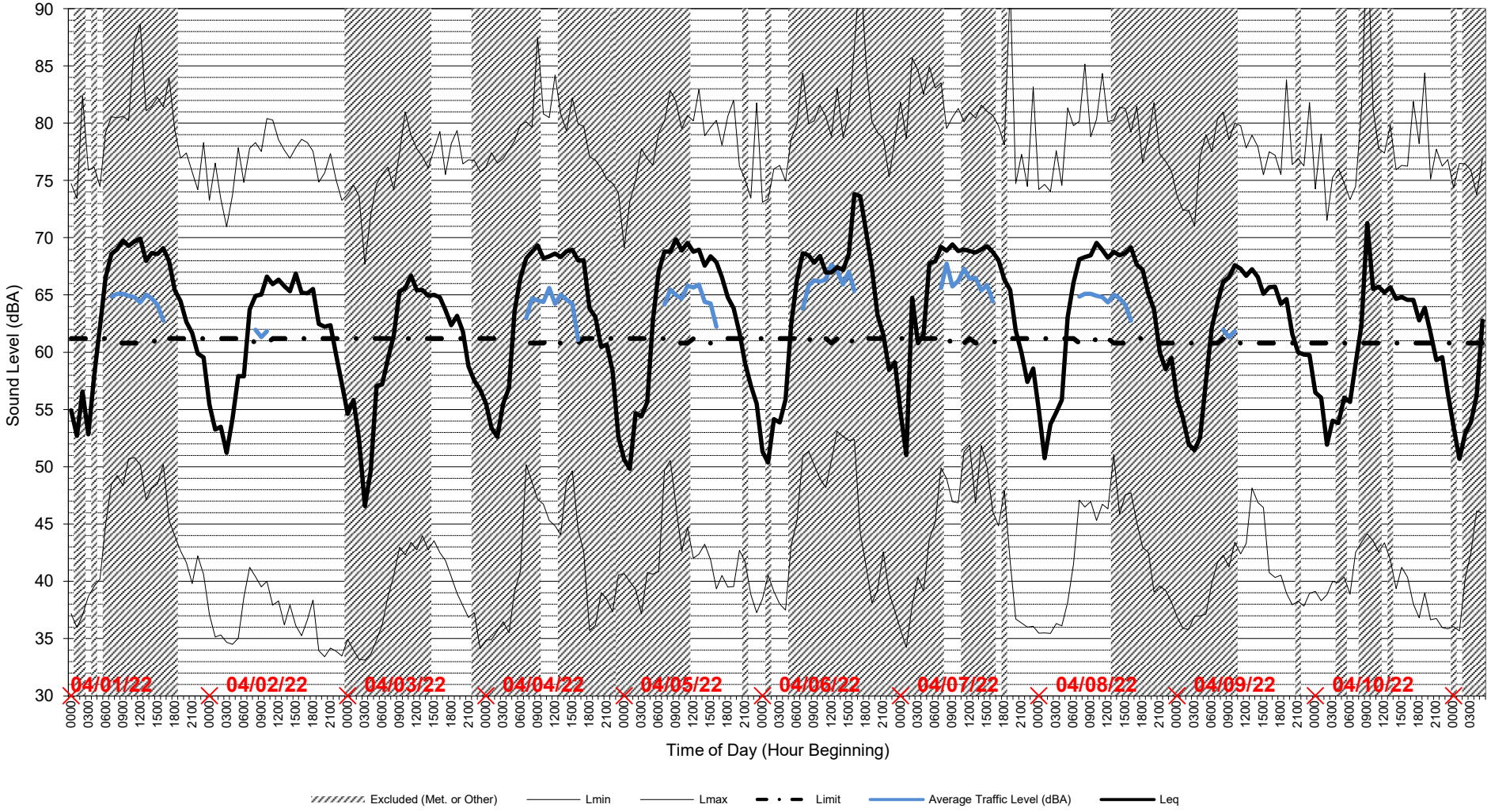
Project #2101781

Drawn by: KAMH Revised by: MFA	Figure: 1
Scale:	1:15000
Date:	Nov. 26, 2019

ATTACHMENT A

Long-Term Measurement Results

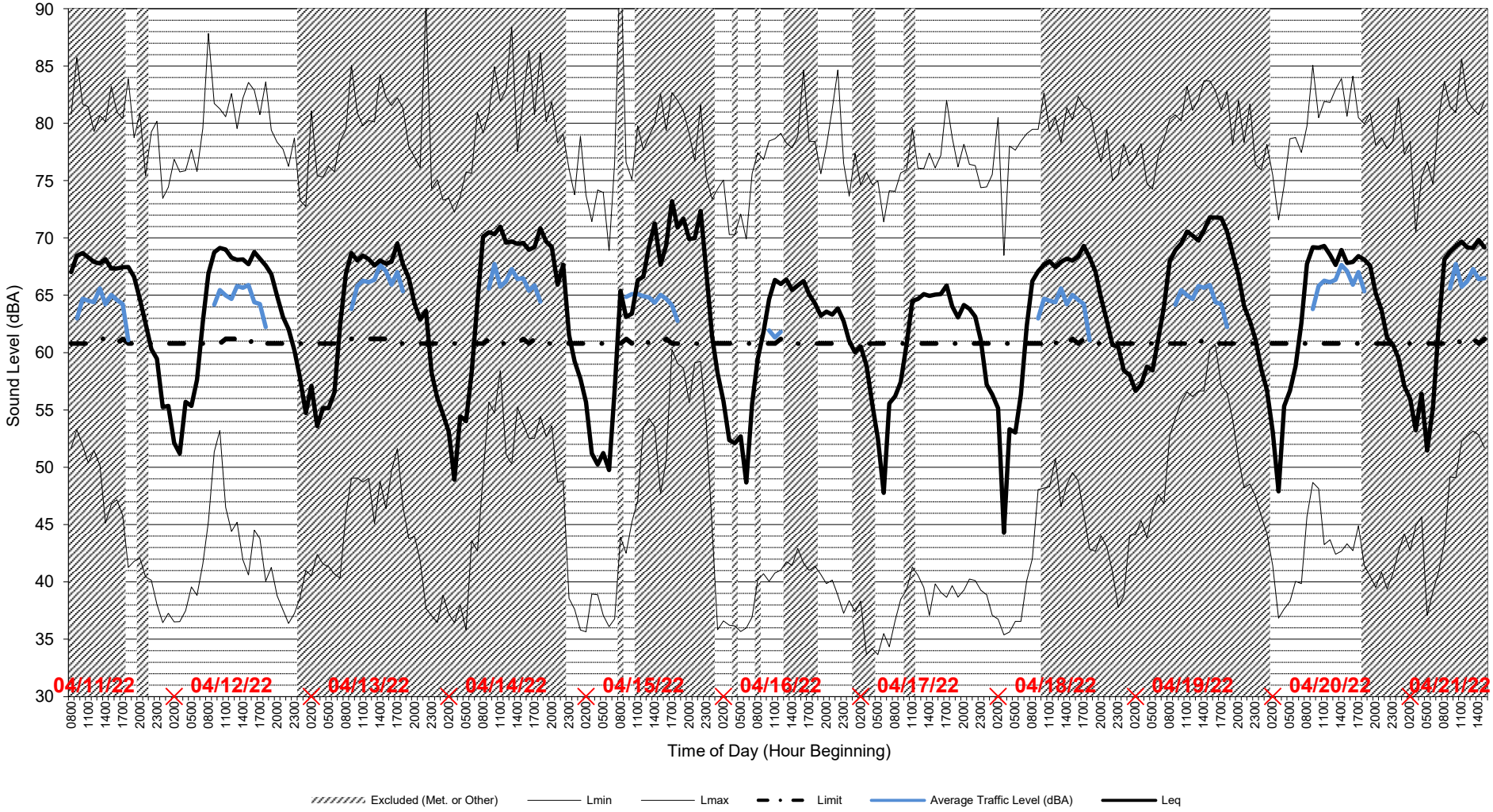
M1



Measured Ambient Sound Levels From Apr 1,2022 to Apr 11,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1a** Date: Jul 26, 2022	RWDI

Long-Term Measurement Results

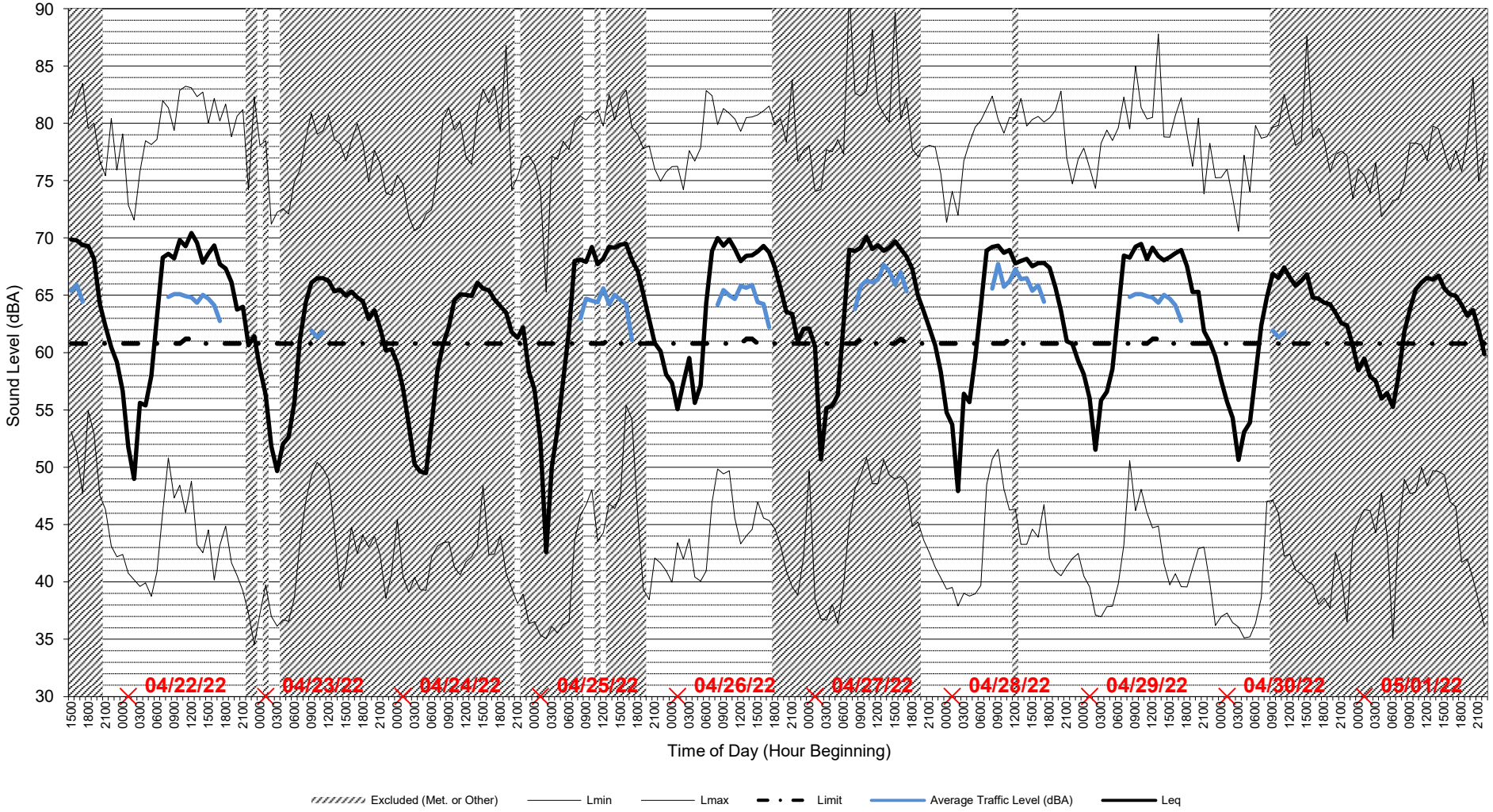
M1



Measured Ambient Sound Levels From Apr 11,2022 to Apr 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1b** Date: Jul 26, 2022	

Long-Term Measurement Results

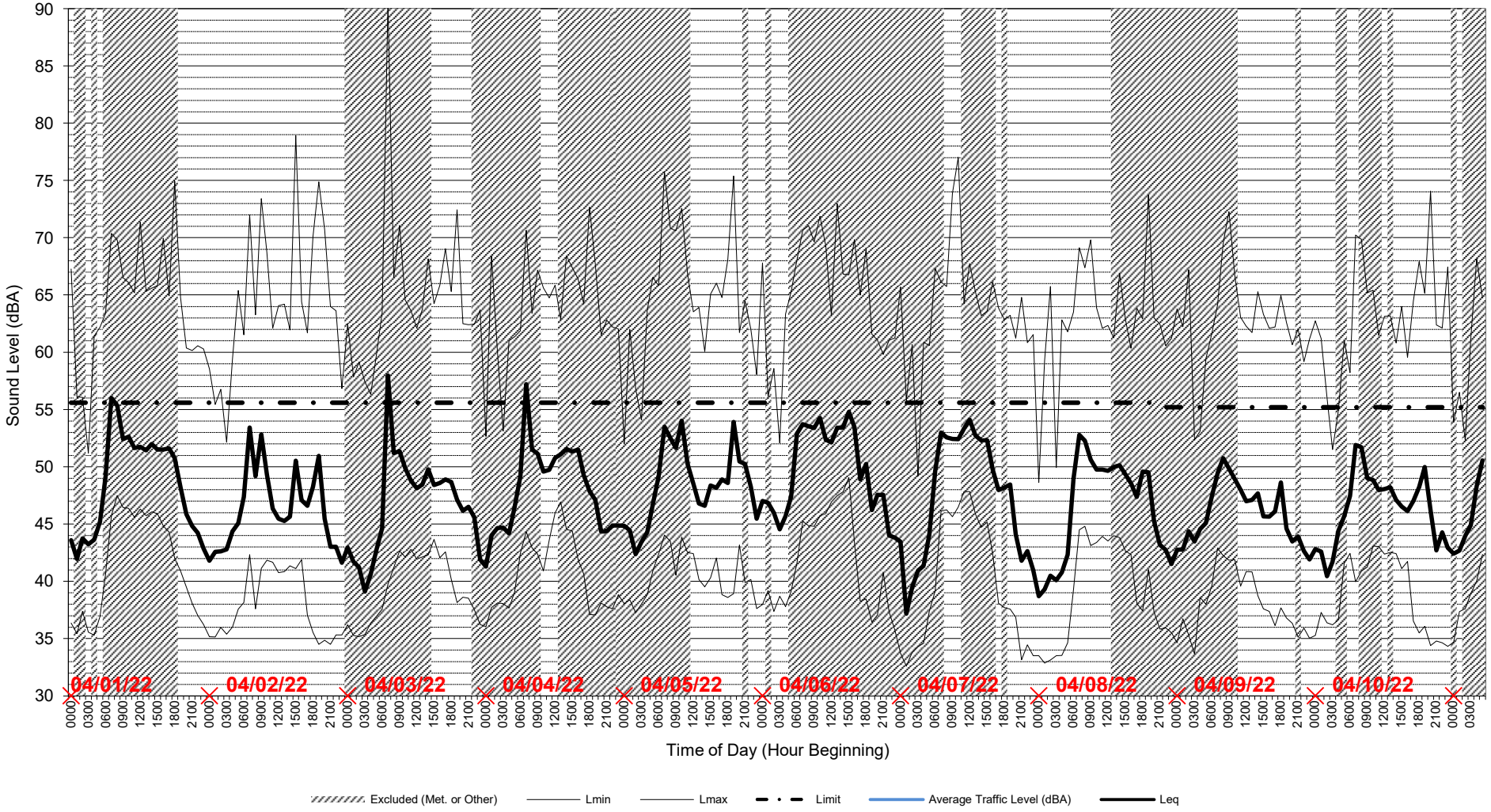
M1



Measured Ambient Sound Levels From Apr 21,2022 to May 1,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M1c** Date: Jul 26, 2022	RWDI

Long-Term Measurement Results

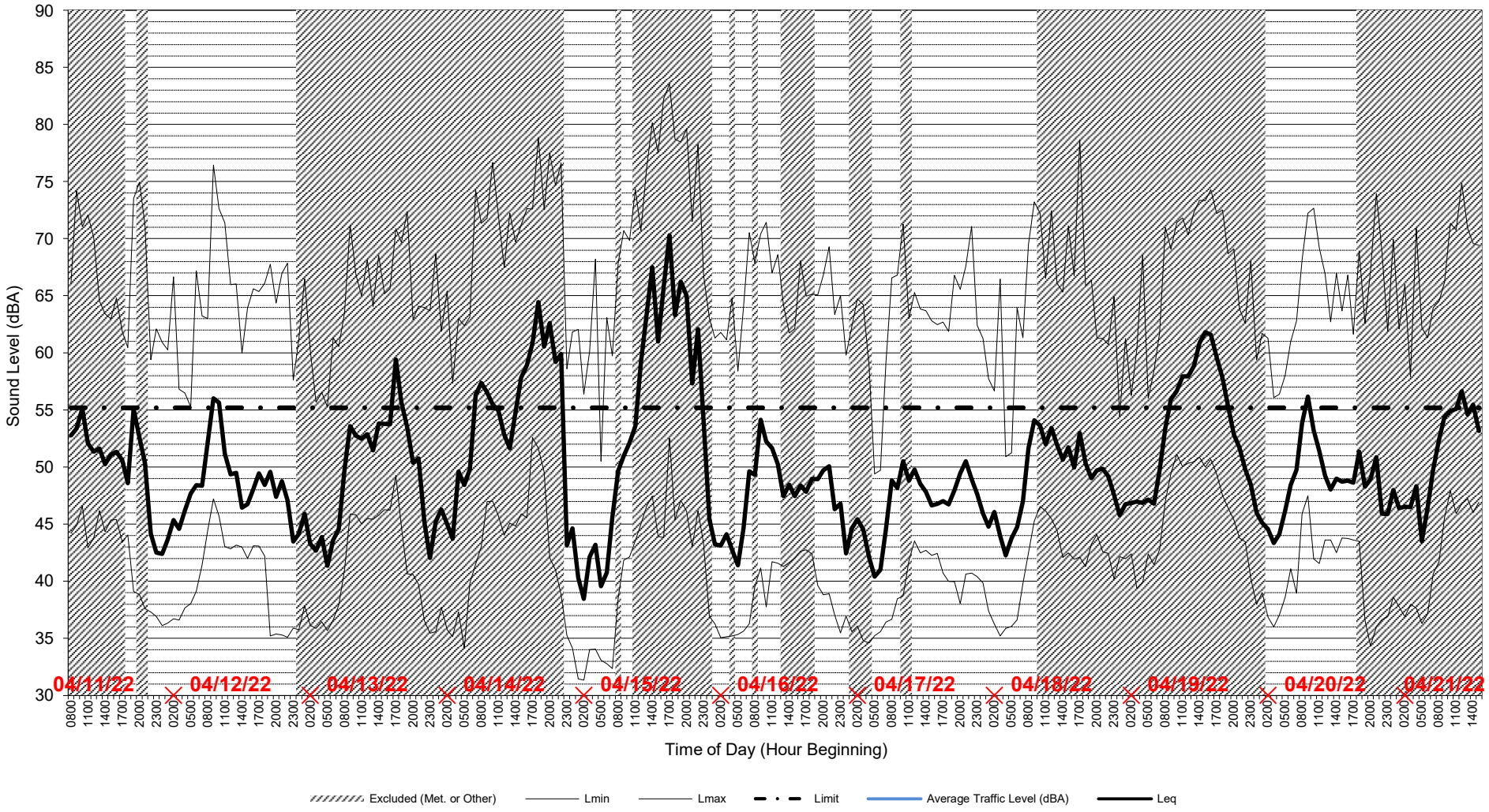
M2



Measured Ambient Sound Levels From Apr 1,2022 to Apr 11,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2a** Date: Jul 26, 2022	RWDI

Long-Term Measurement Results

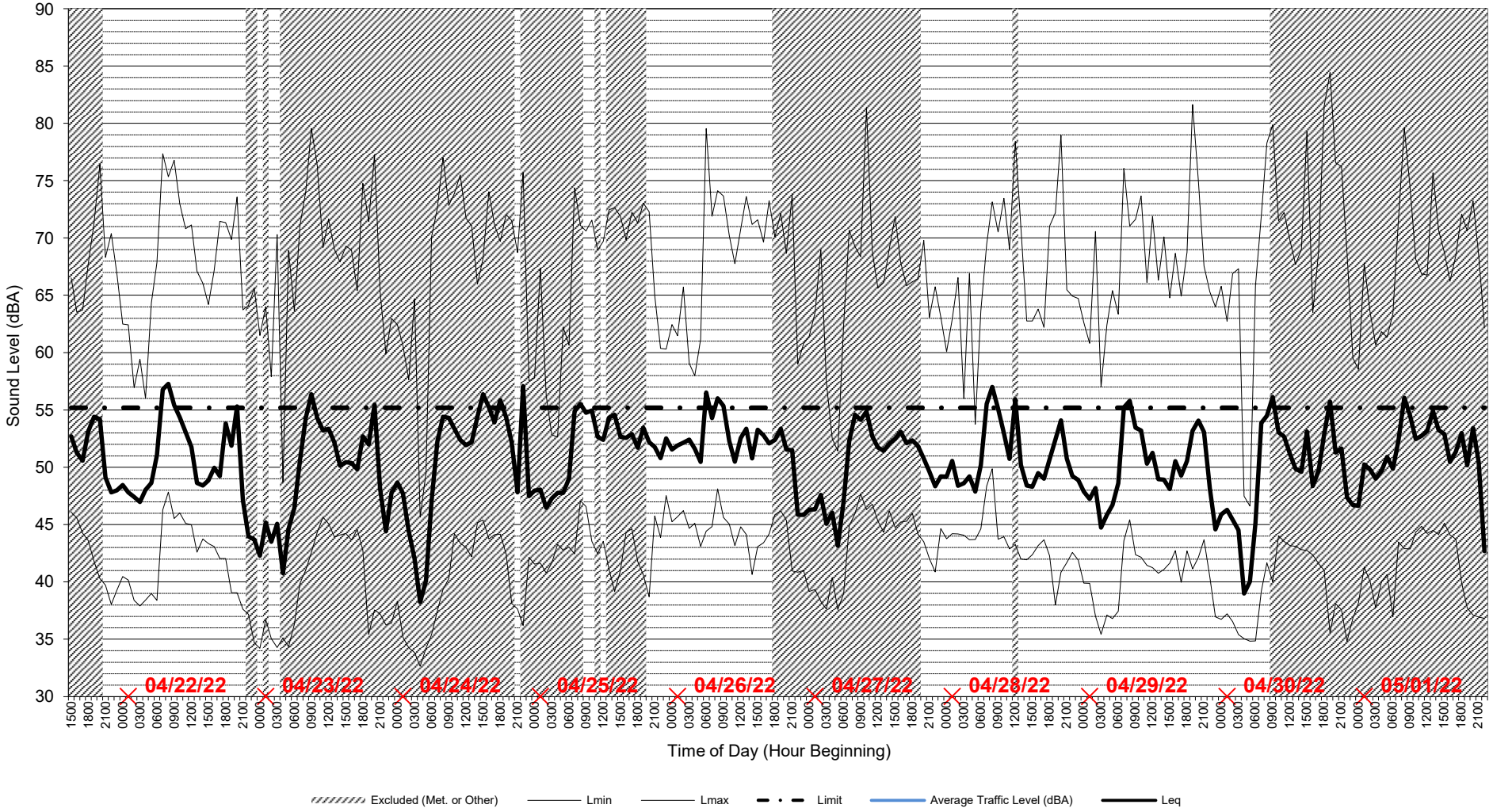
M2



Measured Ambient Sound Levels From Apr 11,2022 to Apr 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2b** Date: Jul 26, 2022	

Long-Term Measurement Results

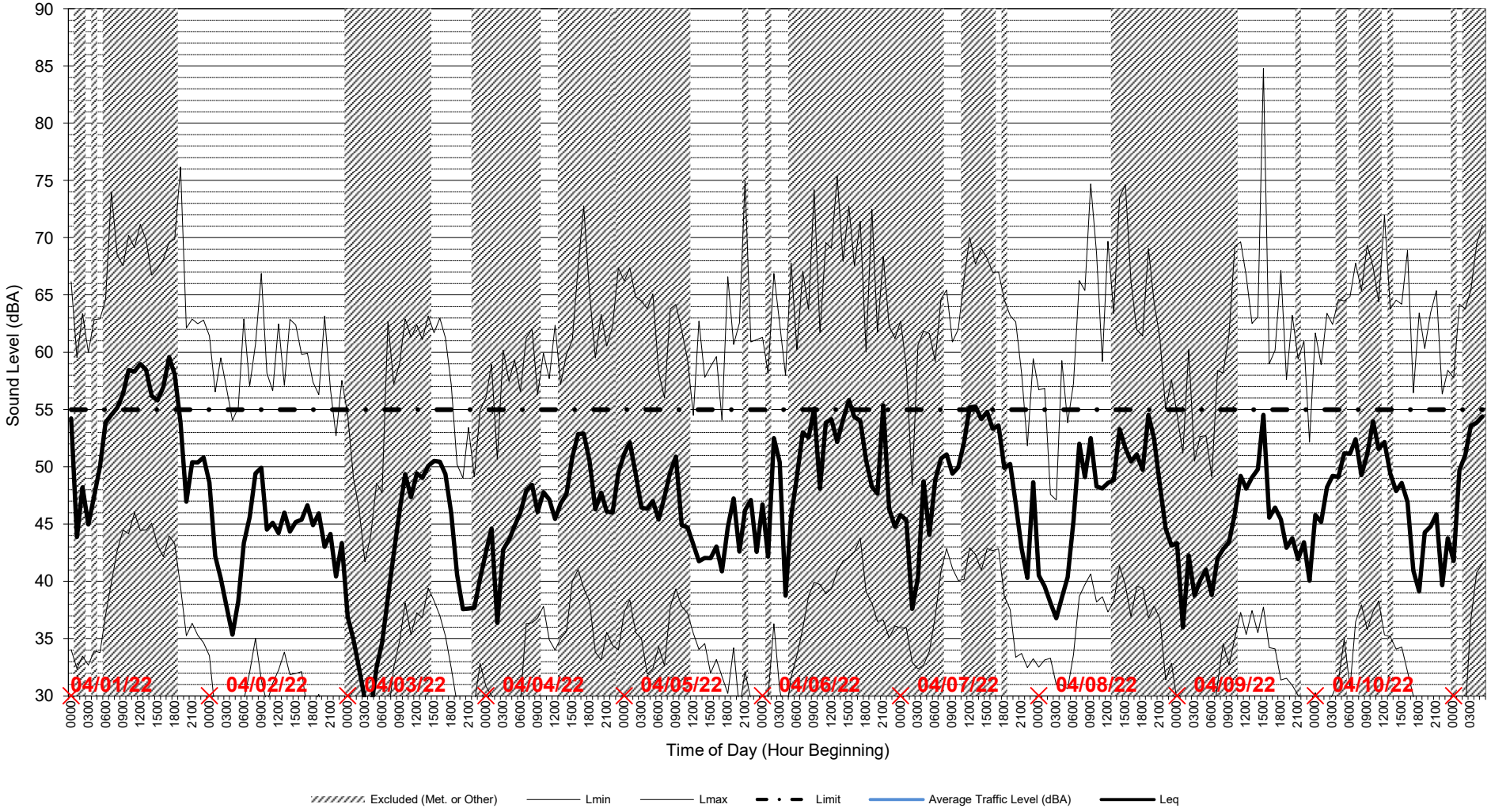
M2



Measured Ambient Sound Levels From Apr 21,2022 to May 1,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M2c** Date: Jul 26, 2022	RWDI

Long-Term Measurement Results

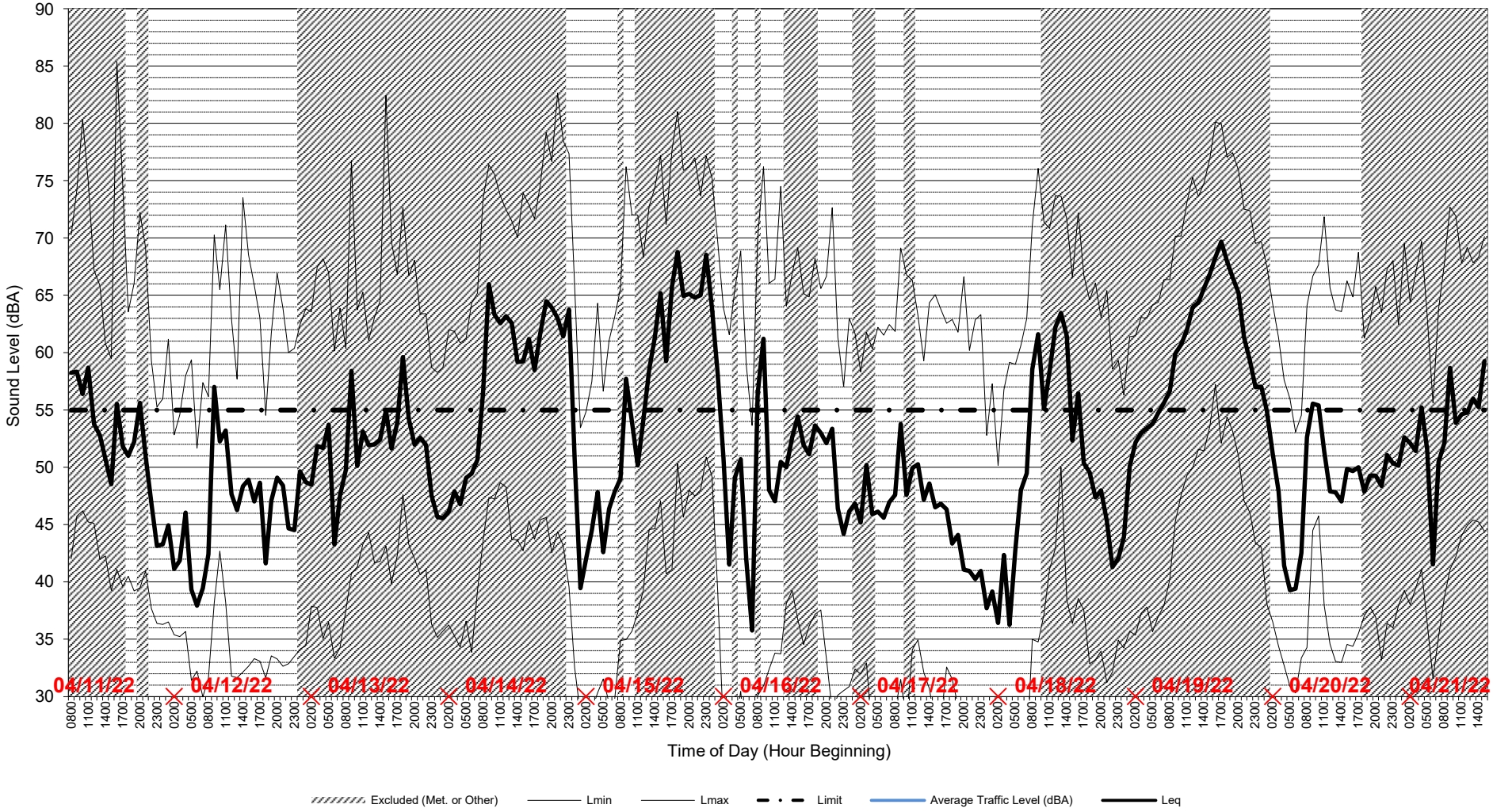
M3



Measured Ambient Sound Levels From Apr 1,2022 to Apr 11,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3a** Date: Jul 26, 2022	RWDI

Long-Term Measurement Results

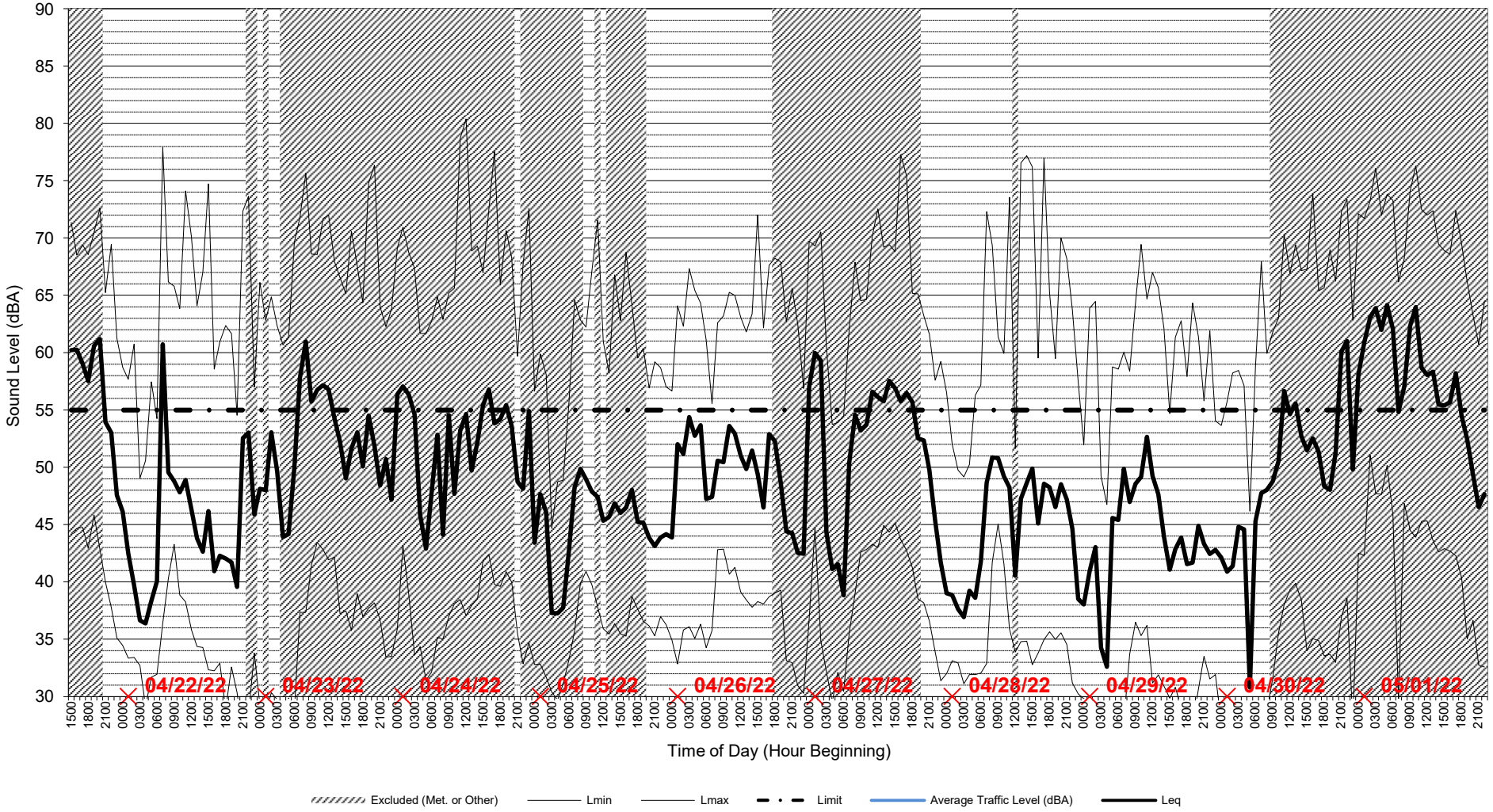
M3



Measured Ambient Sound Levels From Apr 11,2022 to Apr 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3b** Date: Jul 26, 2022	

Long-Term Measurement Results

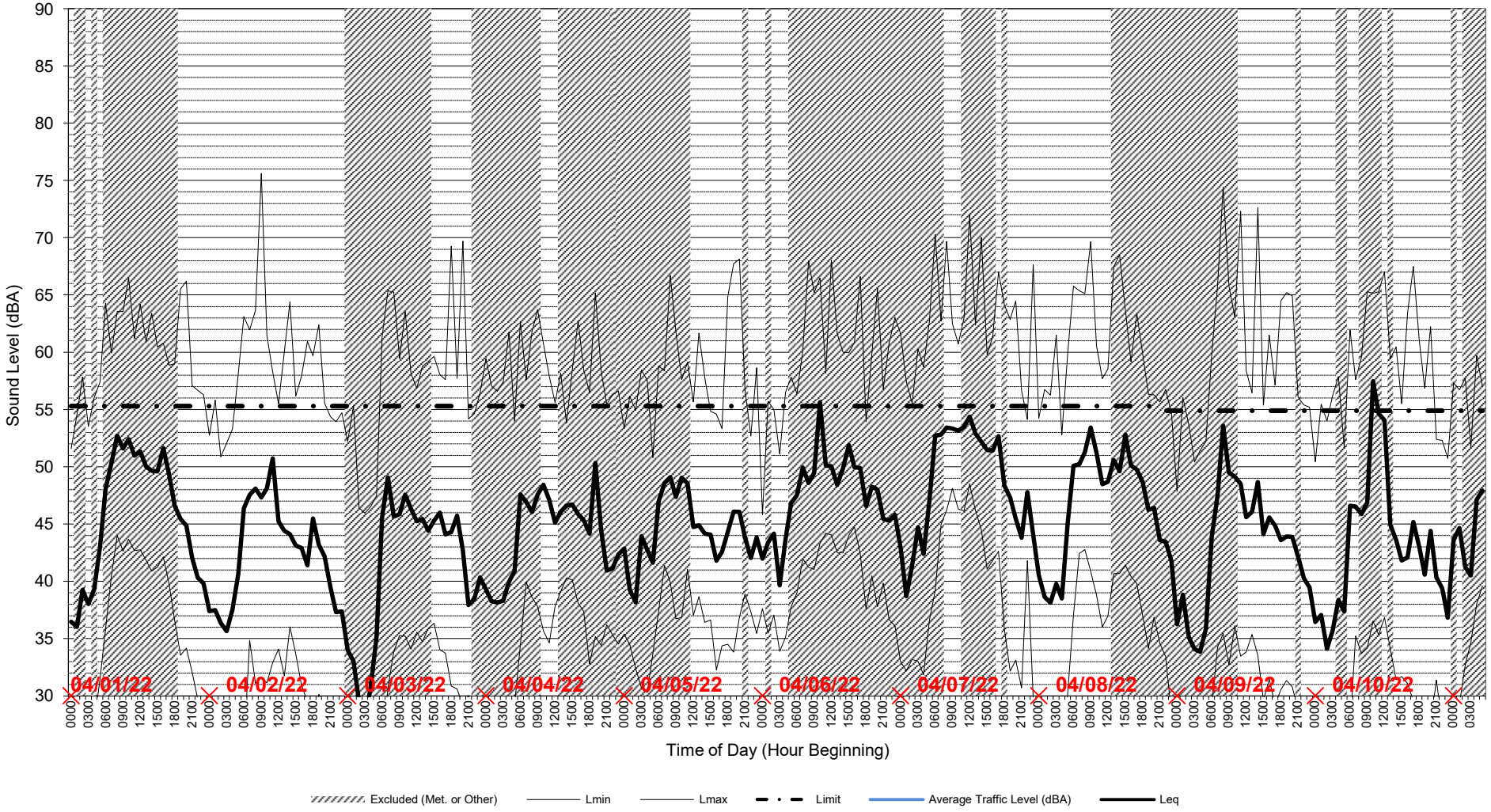
M3



Measured Ambient Sound Levels From Apr 21,2022 to May 1,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3c** Date: Jul 26, 2022	

Long-Term Measurement Results

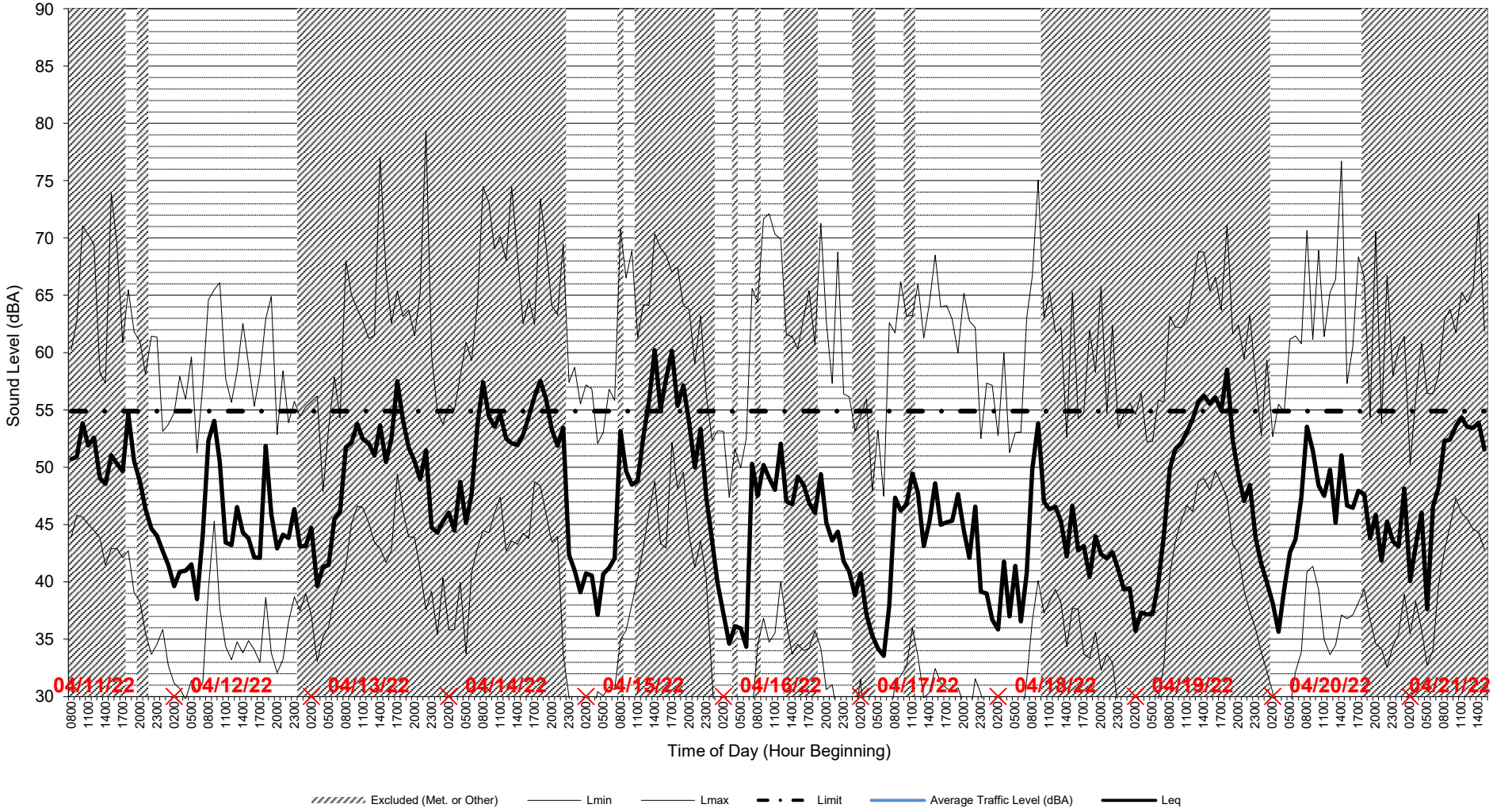
M4



Measured Ambient Sound Levels From Apr 1,2022 to Apr 11,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M4a** Date: Jul 26, 2022	RWDI

Long-Term Measurement Results

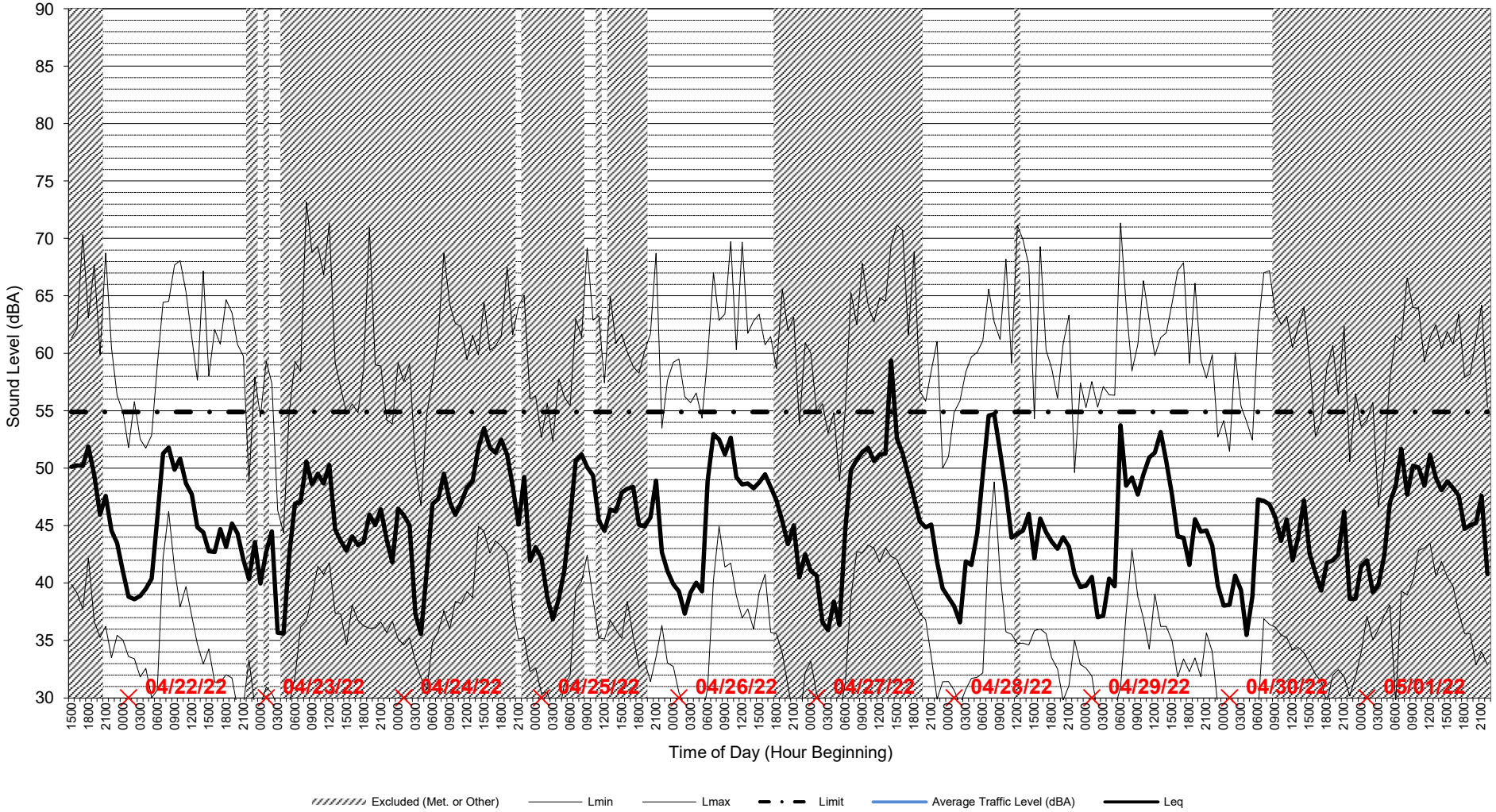
M4



Measured Ambient Sound Levels From Apr 11,2022 to Apr 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4b** Date: Jul 26, 2022	

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Apr 21,2022 to May 1,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M4c** Date: Jul 26, 2022	RWDI

ATTACHMENT B

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/1/2022 0:00	2.2	16	26	WNW (288)	84	0	
4/1/2022 1:00	1.3	16	26	WNW (294)	90	0.2	
4/1/2022 2:00	0.5	14	23	NW (307)	97	0	
4/1/2022 3:00	0.3	15	25	WNW (293)	88	0	
4/1/2022 4:00	0.1	15	26	W (278)	100	0	
4/1/2022 5:00	0.1	17	29	NW (314)	86	0	
4/1/2022 6:00	-0.1	20	30	WNW (292)	84	0	
4/1/2022 7:00	-0.4	19	31	WNW (293)	94	0	
4/1/2022 8:00	-0.5	22	30	WNW (294)	90	0	0.2
4/1/2022 9:00	-0.5	22	33	NW (307)	90	0	
4/1/2022 10:00	0	25	39	NW (309)	87	0.8	
4/1/2022 11:00	0.5	28	40	NW (309)	76	0	
4/1/2022 12:00	0.5	27	37	NW (313)	79	0	
4/1/2022 13:00	0.2	27	36	NNW (330)	80	0	
4/1/2022 14:00	0.4	26	37	WNW (302)	81	0	
4/1/2022 15:00	0.6	26	41	NW (311)	77	0	
4/1/2022 16:00	0.7	28	37	WNW (292)	71	0	
4/1/2022 17:00	0.6	26	39	WNW (287)	68	0	
4/1/2022 18:00	0.4	22	32	NW (319)	69	0	
4/1/2022 19:00	0.4	16	24	NW (323)	68	0	
4/1/2022 20:00	0.6	16	26	W (274)	68	0	
4/1/2022 21:00	0.4	14	21	W (281)	70	0	
4/1/2022 22:00	0.3	14	23	WNW (288)	71	0	
4/1/2022 23:00	0.2	12	22	WNW (285)	71	0	
4/2/2022 0:00	-0.4	9	17	W (265)	74	0	
4/2/2022 1:00	-1	8	13	W (280)	75	0	
4/2/2022 2:00	-1.9	6	10	WSW (240)	79	0	
4/2/2022 3:00	-2.2	5	7	SW (225)	80	0	
4/2/2022 4:00	-2.2	4	6	SSW (211)	80	0	
4/2/2022 5:00	-2.3	3	6	SW (225)	79	0	
4/2/2022 6:00	-2.3	2	4	SE (138)	81	0	
4/2/2022 7:00	-2.1	3	9	SSE (158)	84	0	
4/2/2022 8:00	-1.2	7	9	SSE (151)	79	0	0.8
4/2/2022 9:00	0.5	12	18	SSE (159)	74	0	
4/2/2022 10:00	1.7	13	20	SE (141)	67	0	
4/2/2022 11:00	2.7	12	21	S (184)	65	0	
4/2/2022 12:00	3.5	12	21	SW (215)	60	0	
4/2/2022 13:00	4	12	22	SW (227)	58	0	
4/2/2022 14:00	4.3	12	21	S (174)	60	0	
4/2/2022 15:00	4.5	13	22	SE (129)	64	0	
4/2/2022 16:00	4.2	16	26	SE (138)	65	0	
4/2/2022 17:00	4.3	11	20	S (173)	64	0	
4/2/2022 18:00	4.2	8	15	SE (146)	61	0	
4/2/2022 19:00	4	7	12	ESE (122)	65	0	
4/2/2022 20:00	3.6	4	7	ESE (116)	68	0	
4/2/2022 21:00	3.1	3	7	NNE (13)	74	0	
4/2/2022 22:00	2.8	8	15	ESE (118)	76	0	
4/2/2022 23:00	2.5	6	12	NW (314)	81	0	
4/3/2022 0:00	0.7	6	13	N (2)	100	0	
4/3/2022 1:00	0.2	3	6	NW (307)	100	0	
4/3/2022 2:00	0.2	4	10	NW (324)	100	0	
4/3/2022 3:00	0.3	6	12	WNW (301)	100	0.2	
4/3/2022 4:00	0.2	8	15	NW (317)	100	0.2	
4/3/2022 5:00	0.1	6	9	WNW (301)	100	0	
4/3/2022 6:00	0.1	11	17	NW (309)	100	0	
4/3/2022 7:00	0	14	21	NW (308)	100	0	
4/3/2022 8:00	0.2	16	26	NNW (337)	100	0.6	1
4/3/2022 9:00	0.4	17	26	NW (326)	100	0	
4/3/2022 10:00	0.6	19	26	NW (318)	98	0	
4/3/2022 11:00	0.6	20	29	NW (316)	100	0	
4/3/2022 12:00	1	20	27	NW (318)	97	0	
4/3/2022 13:00	1.4	20	28	NW (323)	94	0	
4/3/2022 14:00	1.9	20	28	NNW (339)	94	0	
4/3/2022 15:00	2.8	18	32	NNW (332)	91	0	
4/3/2022 16:00	3.2	18	29	NW (326)	74	0	
4/3/2022 17:00	2.7	15	28	NNW (329)	75	0	
4/3/2022 18:00	2.2	11	19	NW (316)	78	0	
4/3/2022 19:00	1.7	7	14	NNE (22)	80	0	
4/3/2022 20:00	1.3	7	11	NNE (17)	83	0	
4/3/2022 21:00	0.1	5	9	NNW (338)	88	0	
4/3/2022 22:00	-0.3	1	3	SSW (192)	98	0	
4/3/2022 23:00	-1.3	6	13	SW (231)	100	0	
4/4/2022 0:00	-1.4	2	6	E (92)	100	0	
4/4/2022 1:00	-1.3	2	5	ESE (115)	100	0	
4/4/2022 2:00	-1.3	2	4	E (83)	100	0	
4/4/2022 3:00	-1.6	4	6	E (97)	100	0	
4/4/2022 4:00	-1.5	5	10	SE (130)	100	0	
4/4/2022 5:00	-1.7	5	9	ESE (116)	100	0	
4/4/2022 6:00	-1.7	8	13	ESE (113)	100	0	
4/4/2022 7:00	-1.2	12	20	ESE (107)	100	0	
4/4/2022 8:00	-0.7	14	20	SE (128)	100	0	0
4/4/2022 9:00	0	14	19	SSE (147)	99	0	
4/4/2022 10:00	1.4	10	14	SSE (160)	95	0	
4/4/2022 11:00	2.8	13	24	S (177)	86	0	
4/4/2022 12:00	2.8	15	23	SSE (159)	88	0	
4/4/2022 13:00	2.8	19	28	SE (130)	96	0.4	
4/4/2022 14:00	2.6	25	35	SE (124)	100	0.4	
4/4/2022 15:00	2.6	28	36	SE (132)	100	0.4	
4/4/2022 16:00	2.3	26	37	SE (124)	100	0.2	
4/4/2022 17:00	2.1	24	35	SE (144)	100	0	
4/4/2022 18:00	2.2	19	30	SE (125)	100	0	
4/4/2022 19:00	2.3	17	24	ESE (118)	100	0	
4/4/2022 20:00	2.4	20	26	ESE (119)	100	0	
4/4/2022 21:00	2.6	20	28	SE (126)	100	0.4	
4/4/2022 22:00	2.8	20	26	ESE (107)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/4/2022 23:00	3	23	28	ESE (116)	100	0	
4/5/2022 0:00	3.1	24	32	ESE (113)	100	0.2	
4/5/2022 1:00	3.2	24	31	ESE (122)	100	0	
4/5/2022 2:00	3.1	24	31	SE (125)	100	0	
4/5/2022 3:00	2.5	21	28	SE (126)	98	0	
4/5/2022 4:00	2.1	21	25	ESE (121)	97	0	
4/5/2022 5:00	1.9	19	25	ESE (117)	97	0	
4/5/2022 6:00	2	16	20	SE (125)	99	0	
4/5/2022 7:00	2.3	14	21	ESE (118)	100	0	
4/5/2022 8:00	2.8	12	16	SE (130)	100	0	2
4/5/2022 9:00	4.2	6	11	WSW (245)	100	0	
4/5/2022 10:00	4.7	8	14	WNW (286)	100	0	
4/5/2022 11:00	4.9	7	13	WSW (245)	100	0	
4/5/2022 12:00	6.6	5	10	WNW (298)	95	0	
4/5/2022 13:00	8.1	4	13	N (0)	87	0	
4/5/2022 14:00	9.3	4	10	NW (306)	74	0	
4/5/2022 15:00	10.7	5	14	SE (130)	71	0	
4/5/2022 16:00	11.5	4	12	ESE (102)	64	0	
4/5/2022 17:00	11.7	8	22	ESE (118)	64	0	
4/5/2022 18:00	11.4	17	25	ESE (121)	71	0	
4/5/2022 19:00	10.2	9	16	NNE (25)	82	0	
4/5/2022 20:00	7.1	10	19	NE (40)	88	0	
4/5/2022 21:00	5.8	9	13	ENE (72)	96	0	
4/5/2022 22:00	5.6	9	13	NE (52)	94	0	
4/5/2022 23:00	6.5	13	19	E (93)	91	0	
4/6/2022 0:00	7.4	18	26	E (90)	79	0	
4/6/2022 1:00	7.2	20	28	E (94)	74	0	
4/6/2022 2:00	6.6	18	23	E (94)	72	0	
4/6/2022 3:00	6.4	16	22	E (99)	73	0	
4/6/2022 4:00	6	14	20	ESE (118)	75	0	
4/6/2022 5:00	6	21	27	ESE (105)	74	0	
4/6/2022 6:00	5.8	22	29	E (100)	77	0	
4/6/2022 7:00	5.8	19	27	ESE (123)	79	0	
4/6/2022 8:00	6.4	23	32	SE (127)	82	0	0
4/6/2022 9:00	7.7	22	31	SE (131)	83	0	
4/6/2022 10:00	9.2	26	38	ESE (117)	84	0	
4/6/2022 11:00	11.1	29	39	SSE (153)	84	0	
4/6/2022 12:00	12.3	30	40	SSE (147)	80	0	
4/6/2022 13:00	13	31	42	SE (141)	79	0	
4/6/2022 14:00	13.3	34	45	SE (139)	75	0	
4/6/2022 15:00	13.2	34	47	SSE (154)	82	0.2	
4/6/2022 16:00	11.6	30	42	SE (135)	89	1	
4/6/2022 17:00	10.5	22	31	SE (137)	100	2	
4/6/2022 18:00	9.9	21	27	SSE (165)	100	0	
4/6/2022 19:00	10	15	25	SSW (201)	100	0.6	
4/6/2022 20:00	9	19	38	WNW (293)	100	0	
4/6/2022 21:00	6.6	6	30	WNW (291)	100	0	
4/6/2022 22:00	6.2	2	5	W (268)	100	0	
4/6/2022 23:00	5.4	4	6	SSE (166)	100	0	
4/7/2022 0:00	5.1	8	14	SSE (147)	100	0	
4/7/2022 1:00	5.2	14	18	SSE (153)	100	0	
4/7/2022 2:00	5	14	18	SSE (159)	100	0	
4/7/2022 3:00	5.1	15	22	SSE (168)	100	0	
4/7/2022 4:00	5	13	18	S (186)	100	0	
4/7/2022 5:00	5.1	13	20	SSE (155)	100	0	
4/7/2022 6:00	4.7	14	20	S (171)	100	0	
4/7/2022 7:00	5.4	13	20	SSE (164)	100	0	
4/7/2022 8:00	6.4	13	23	SSW (192)	87	0	3.8
4/7/2022 9:00	7.8	13	22	SW (216)	79	0	
4/7/2022 10:00	8.8	18	34	SW (218)	76	0	
4/7/2022 11:00	9.3	27	45	SSW (208)	68	0	
4/7/2022 12:00	9.9	25	41	S (190)	61	0.2	
4/7/2022 13:00	10	26	44	S (185)	58	0	
4/7/2022 14:00	9.9	25	39	SW (225)	59	0	
4/7/2022 15:00	9.7	25	37	SW (226)	57	0	
4/7/2022 16:00	9	22	32	SSW (198)	65	0	
4/7/2022 17:00	8.8	18	33	SW (230)	64	0	
4/7/2022 18:00	8.1	19	33	W (262)	59	0	
4/7/2022 19:00	7.6	10	18	W (260)	67	0	
4/7/2022 20:00	6.6	6	15	SSW (205)	69	0	
4/7/2022 21:00	6.2	4	7	SSW (194)	73	0	
4/7/2022 22:00	5.4	5	12	S (171)	76	0	
4/7/2022 23:00	4.9	7	12	S (181)	74	0	
4/8/2022 0:00	4.2	6	12	S (184)	74	0	
4/8/2022 1:00	3.4	9	13	SSE (167)	78	0	
4/8/2022 2:00	3.2	10	18	SW (224)	77	0	
4/8/2022 3:00	3.1	9	16	S (178)	77	0	
4/8/2022 4:00	2.6	8	13	SSW (202)	80	0	
4/8/2022 5:00	2.8	9	15	S (183)	81	0	
4/8/2022 6:00	2.7	7	13	S (176)	86	0	
4/8/2022 7:00	2.7	9	15	S (172)	88	0	
4/8/2022 8:00	3.2	9	18	S (181)	88	0	0.2
4/8/2022 9:00	4	12	21	S (189)	84	0	
4/8/2022 10:00	4.9	14	26	WSW (239)	81	0	
4/8/2022 11:00	5.6	14	24	S (184)	76	0	
4/8/2022 12:00	6.1	14	28	SW (231)	73	0	
4/8/2022 13:00	7.6	22	36	SW (233)	70	0	
4/8/2022 14:00	7.8	19	34	SSW (196)	69	0	
4/8/2022 15:00	7.7	19	30	SSW (205)	68	0	
4/8/2022 16:00	8.2	20	32	SW (219)	61	0	
4/8/2022 17:00	8.1	20	30	SW (229)	63	0	
4/8/2022 18:00	6.2	16	31	WNW (283)	93	2.4	
4/8/2022 19:00	3.6	14	26	W (269)	100	3.4	
4/8/2022 20:00	3.6	9	20	SW (214)	100	0.8	
4/8/2022 21:00	3.7	8	14	SSW (210)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/8/2022 22:00	3.9	8	16	SW (217)	100	0	
4/8/2022 23:00	3.9	9	15	W (266)	100	0	
4/9/2022 0:00	3.5	6	11	WNW (301)	100	0	
4/9/2022 1:00	2.8	11	18	WNW (301)	100	0.4	
4/9/2022 2:00	2.1	12	19	NNW (329)	100	0	
4/9/2022 3:00	1.4	13	20	NNW (339)	100	0.2	
4/9/2022 4:00	1.2	13	21	NNW (327)	100	0	
4/9/2022 5:00	0.9	10	17	NW (320)	100	0	
4/9/2022 6:00	0.1	14	24	NW (305)	100	0	
4/9/2022 7:00	-0.3	12	19	WNW (298)	100	0	
4/9/2022 8:00	-0.5	14	22	NW (316)	100	0.4	7.6
4/9/2022 9:00	-0.1	11	17	WNW (287)	100	0	
4/9/2022 10:00	0.2	14	21	NW (304)	100	0	
4/9/2022 11:00	0.6	15	23	WNW (301)	93	0	
4/9/2022 12:00	1.1	15	26	NW (307)	88	0	
4/9/2022 13:00	1.3	15	24	WNW (288)	75	0	
4/9/2022 14:00	1.3	16	23	WNW (290)	73	0	
4/9/2022 15:00	1.8	12	20	W (261)	71	0	
4/9/2022 16:00	2	12	19	W (279)	71	0	
4/9/2022 17:00	2.1	13	20	NW (306)	72	0	
4/9/2022 18:00	2.1	11	20	WNW (298)	74	0	
4/9/2022 19:00	2.2	8	14	W (280)	77	0	
4/9/2022 20:00	2.1	6	11	WNW (293)	82	0	
4/9/2022 21:00	1.7	4	8	S (184)	91	0.2	
4/9/2022 22:00	1.7	6	13	W (272)	92	0	
4/9/2022 23:00	2.2	15	24	WNW (297)	83	0	
4/10/2022 0:00	2	16	24	WNW (294)	76	0	
4/10/2022 1:00	1.9	16	22	WNW (286)	76	0	
4/10/2022 2:00	1.6	14	24	W (278)	75	0	
4/10/2022 3:00	1.5	17	26	WNW (290)	75	0	
4/10/2022 4:00	1.5	20	32	WNW (291)	74	0	
4/10/2022 5:00	1.5	21	35	WNW (301)	73	0	
4/10/2022 6:00	1.1	18	27	WNW (303)	78	0	
4/10/2022 7:00	0.5	17	26	NW (318)	80	0	
4/10/2022 8:00	1.1	19	33	WNW (298)	80	0	0.2
4/10/2022 9:00	1.9	22	33	WNW (303)	75	0	
4/10/2022 10:00	2.8	21	30	NW (307)	72	0	
4/10/2022 11:00	3.7	20	30	NW (317)	66	0	
4/10/2022 12:00	4.1	18	29	NNW (336)	60	0	
4/10/2022 13:00	4.6	16	30	N (352)	57	0.2	
4/10/2022 14:00	5.4	14	24	NW (318)	54	0	
4/10/2022 15:00	5.9	13	24	NNW (346)	51	0	
4/10/2022 16:00	6.7	9	21	NNW (333)	46	0	
4/10/2022 17:00	7.8	5	16	WNW (293)	46	0	
4/10/2022 18:00	8.3	3	6	ENE (76)	46	0	
4/10/2022 19:00	7.5	7	11	SE (139)	57	0	
4/10/2022 20:00	6.2	9	13	ESE (105)	64	0	
4/10/2022 21:00	5.3	12	17	ESE (114)	67	0	
4/10/2022 22:00	4.6	15	21	SE (132)	62	0	
4/10/2022 23:00	3.6	15	22	ESE (122)	70	0	
4/11/2022 0:00	2.8	19	24	SE (134)	77	0	
4/11/2022 1:00	3.1	18	26	SE (125)	75	0	
4/11/2022 2:00	3.1	26	32	ESE (118)	74	0	
4/11/2022 3:00	3.1	29	42	SE (128)	72	0	
4/11/2022 4:00	3.1	29	36	SE (138)	71	0	
4/11/2022 5:00	3.3	30	42	SE (124)	71	0	
4/11/2022 6:00	3.9	33	45	SE (128)	68	0	
4/11/2022 7:00	4.4	34	46	SE (142)	70	0	
4/11/2022 8:00	4.2	35	45	ESE (118)	81	1.4	1.6
4/11/2022 9:00	5.1	32	43	SE (130)	77	0	
4/11/2022 10:00	7.2	30	40	SE (130)	76	0	
4/11/2022 11:00	9.1	31	41	SSE (158)	75	0	
4/11/2022 12:00	11.7	24	34	S (172)	73	0	
4/11/2022 13:00	12.4	25	36	S (190)	68	0	
4/11/2022 14:00	13.8	25	35	SSE (165)	69	0	
4/11/2022 15:00	14.7	22	35	S (182)	66	0	
4/11/2022 16:00	14.8	18	30	SSE (165)	70	0	
4/11/2022 17:00	13.8	17	25	SSE (155)	77	0	
4/11/2022 18:00	12.8	13	22	WSW (240)	82	0.2	
4/11/2022 19:00	11.7	12	17	SSW (200)	94	0.4	
4/11/2022 20:00	11.7	10	17	SW (234)	94	0	
4/11/2022 21:00	11.2	9	16	SSW (211)	83	0	
4/11/2022 22:00	10.4	9	14	SW (231)	82	0	
4/11/2022 23:00	9.7	7	11	W (261)	83	0	
4/12/2022 0:00	9.4	8	14	SW (231)	83	0	
4/12/2022 1:00	8.7	7	11	WNW (303)	86	0	
4/12/2022 2:00	7.8	6	10	W (259)	92	0	
4/12/2022 3:00	7	4	7	N (0)	84	0	
4/12/2022 4:00	5.5	2	5	NNW (347)	83	0	
4/12/2022 5:00	4.8	3	5	NE (41)	83	0	
4/12/2022 6:00	4.5	2	4	ENE (69)	81	0	
4/12/2022 7:00	5.4	3	5	SSE (164)	77	0	
4/12/2022 8:00	8.2	1	3	E (92)	78	0	0.6
4/12/2022 9:00	10.7	7	19	ESE (120)	72	0	
4/12/2022 10:00	12.1	11	18	SE (134)	59	0	
4/12/2022 11:00	13.3	9	17	SE (136)	54	0	
4/12/2022 12:00	14.3	9	20	SSW (207)	50	0	
4/12/2022 13:00	15.3	7	17	SW (232)	45	0	
4/12/2022 14:00	16.1	7	18	E (80)	41	0	
4/12/2022 15:00	16.8	3	11	E (86)	38	0	
4/12/2022 16:00	17	10	27	SE (136)	49	0	
4/12/2022 17:00	16	15	26	SE (138)	49	0	
4/12/2022 18:00	15.6	18	25	SE (137)	49	0	
4/12/2022 19:00	14.6	16	26	SSE (151)	48	0	
4/12/2022 20:00	12	16	26	ESE (105)	54	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/12/2022 21:00	10.3	17	22	ESE (120)	64	0	
4/12/2022 22:00	9.4	20	28	ESE (118)	61	0	
4/12/2022 23:00	9.3	23	29	ESE (119)	58	0	
4/13/2022 0:00	9.4	23	31	ESE (115)	57	0	
4/13/2022 1:00	10	23	34	ESE (118)	56	0	
4/13/2022 2:00	10.2	26	34	ESE (121)	63	0.2	
4/13/2022 3:00	10.4	24	31	SE (128)	67	0	
4/13/2022 4:00	11.3	24	31	SE (127)	75	0	
4/13/2022 5:00	11.8	24	36	SE (139)	81	0	
4/13/2022 6:00	11.7	26	35	SE (144)	84	0	
4/13/2022 7:00	12.4	21	29	SSE (166)	85	0	
4/13/2022 8:00	15.3	20	33	S (171)	83	0	0.2
4/13/2022 9:00	16.6	20	32	S (188)	80	0	
4/13/2022 10:00	17.5	21	33	S (190)	81	0	
4/13/2022 11:00	18.9	19	34	SW (221)	77	0	
4/13/2022 12:00	20.1	22	37	S (190)	72	0	
4/13/2022 13:00	20.2	19	33	SSW (205)	69	0	
4/13/2022 14:00	20	22	48	S (176)	71	0	
4/13/2022 15:00	17.5	29	54	SSW (192)	100	2.4	
4/13/2022 16:00	16.6	30	46	SSE (163)	100	0.2	
4/13/2022 17:00	16.7	25	38	S (178)	93	0	
4/13/2022 18:00	16.3	22	38	SSW (201)	85	0	
4/13/2022 19:00	16.1	21	38	SSW (201)	100	0.8	
4/13/2022 20:00	16	17	32	S (184)	100	0	
4/13/2022 21:00	15.8	16	27	SSE (160)	100	0	
4/13/2022 22:00	15.7	21	36	S (177)	100	0	
4/13/2022 23:00	15.7	23	34	S (180)	100	0	
4/14/2022 0:00	15.6	19	31	SSE (160)	100	0	
4/14/2022 1:00	16	22	32	SSE (167)	100	0	
4/14/2022 2:00	16	27	40	SSE (166)	100	0	
4/14/2022 3:00	15.6	22	37	SSE (167)	100	0	
4/14/2022 4:00	15.1	22	36	SW (226)	90	0	
4/14/2022 5:00	15.6	28	50	SSW (203)	91	0	
4/14/2022 6:00	9.4	33	52	WNW (287)	100	0.6	
4/14/2022 7:00	7.2	28	44	W (269)	100	0.8	
4/14/2022 8:00	6.5	25	42	WSW (249)	92	0	1.4
4/14/2022 9:00	6.5	29	47	WNW (292)	81	0	
4/14/2022 10:00	6.9	25	47	WNW (291)	63	0	
4/14/2022 11:00	8.4	22	38	WSW (257)	52	0	
4/14/2022 12:00	9.9	26	46	WSW (245)	44	0	
4/14/2022 13:00	10.8	32	52	WSW (237)	42	0	
4/14/2022 14:00	11.3	31	49	SW (218)	44	0	
4/14/2022 15:00	11.4	33	53	SW (216)	42	0	
4/14/2022 16:00	11.8	38	67	SW (230)	42	0	
4/14/2022 17:00	11.4	37	57	SW (215)	41	0	
4/14/2022 18:00	11.3	35	68	SW (236)	38	0	
4/14/2022 19:00	10.8	31	50	SW (230)	35	0	
4/14/2022 20:00	10.2	31	56	WSW (257)	37	0	
4/14/2022 21:00	8.9	16	30	WNW (298)	46	0	
4/14/2022 22:00	7.1	6	13	W (280)	50	0	
4/14/2022 23:00	6.6	10	18	SW (234)	52	0	
4/15/2022 0:00	5.9	10	18	SW (214)	55	0	
4/15/2022 1:00	5.6	16	25	SW (227)	57	0	
4/15/2022 2:00	5.5	17	27	SW (235)	57	0	
4/15/2022 3:00	5.6	14	24	S (188)	55	0	
4/15/2022 4:00	5.5	14	23	SSW (212)	55	0	
4/15/2022 5:00	5.4	14	24	SW (219)	59	0	
4/15/2022 6:00	5.4	19	31	SSW (193)	60	0	
4/15/2022 7:00	5.9	16	27	SW (214)	59	0	
4/15/2022 8:00	6.8	15	27	SSW (200)	60	0	0
4/15/2022 9:00	8.2	22	37	SW (217)	60	0	
4/15/2022 10:00	10.1	31	52	SW (224)	49	0	
4/15/2022 11:00	10.1	35	57	WSW (240)	45	0	
4/15/2022 12:00	9.1	42	67	SW (219)	67	0	
4/15/2022 13:00	7.4	34	64	SSW (211)	73	0	
4/15/2022 14:00	8.8	35	63	W (263)	70	0	
4/15/2022 15:00	9.1	45	67	WSW (247)	70	0	
4/15/2022 16:00	10.1	38	61	SW (234)	62	0	
4/15/2022 17:00	10.5	41	63	WSW (241)	60	0	
4/15/2022 18:00	9.6	38	59	W (275)	64	0	
4/15/2022 19:00	9.8	35	53	W (272)	60	0	
4/15/2022 20:00	8.6	39	61	W (278)	76	1.4	
4/15/2022 21:00	6.8	30	45	W (271)	79	1.6	
4/15/2022 22:00	6.5	17	27	W (268)	81	0.4	
4/15/2022 23:00	6.6	16	28	WNW (302)	79	0	
4/16/2022 0:00	5.9	11	19	WNW (293)	73	0	
4/16/2022 1:00	5.3	14	31	W (264)	71	0	
4/16/2022 2:00	4.1	17	36	SW (236)	76	0.2	
4/16/2022 3:00	3.6	11	19	N (4)	76	0	
4/16/2022 4:00	2	6	12	NNW (343)	85	0	
4/16/2022 5:00	0.9	5	10	NNE (23)	91	0	
4/16/2022 6:00	0.3	2	5	NNW (348)	96	0	
4/16/2022 7:00	0.4	3	6	N (0)	91	0	
4/16/2022 8:00	1.4	4	7	NW (326)	85	0	3.6
4/16/2022 9:00	2.6	6	17	NW (304)	80	0	
4/16/2022 10:00	3.5	14	25	WNW (298)	68	0	
4/16/2022 11:00	4.1	20	34	W (260)	55	0	
4/16/2022 12:00	4.2	19	33	WNW (301)	54	0	
4/16/2022 13:00	4.4	19	33	NW (318)	55	0	
4/16/2022 14:00	4.7	19	30	NW (304)	53	0	
4/16/2022 15:00	4.6	22	40	N (353)	50	0	
4/16/2022 16:00	4.2	20	32	NW (313)	52	0	
4/16/2022 17:00	3.2	18	29	NNW (348)	56	0	
4/16/2022 18:00	2.6	14	21	N (0)	57	0	
4/16/2022 19:00	2.1	12	21	NW (319)	62	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/16/2022 20:00	1.7	14	21	WNW (302)	67	0	
4/16/2022 21:00	1.3	16	29	NW (320)	80	0	
4/16/2022 22:00	0.1	15	24	NNW (332)	91	0	
4/16/2022 23:00	-1	15	28	NNW (348)	100	0	
4/17/2022 0:00	-1.3	21	32	NNW (348)	100	0	
4/17/2022 1:00	-1.7	13	26	NW (320)	100	0	
4/17/2022 2:00	-2	12	26	NW (314)	96	0	
4/17/2022 3:00	-1.4	13	29	NW (322)	92	0	
4/17/2022 4:00	-1.3	16	27	NW (308)	78	0	
4/17/2022 5:00	-1.8	14	31	NW (324)	80	0	
4/17/2022 6:00	-2.2	13	23	NW (304)	90	0	
4/17/2022 7:00	-1.8	12	25	NNW (335)	78	0	
4/17/2022 8:00	-1.1	16	26	N (352)	65	0.2	0.2
4/17/2022 9:00	-0.8	16	27	NNE (12)	73	0.8	
4/17/2022 10:00	-0.3	17	29	NNW (337)	72	0	
4/17/2022 11:00	0.7	10	23	NNE (13)	70	0	
4/17/2022 12:00	1.6	7	16	NNE (30)	65	0	
4/17/2022 13:00	2.1	8	16	WNW (301)	64	0	
4/17/2022 14:00	2.5	12	21	NW (317)	66	0	
4/17/2022 15:00	2.7	10	20	NW (323)	64	0	
4/17/2022 16:00	2.8	11	18	N (5)	65	0	
4/17/2022 17:00	3.2	8	19	NNW (342)	64	0	
4/17/2022 18:00	3.3	11	19	N (0)	64	0	
4/17/2022 19:00	2.6	11	17	N (5)	67	0	
4/17/2022 20:00	1.2	11	16	NNE (18)	71	0	
4/17/2022 21:00	0.1	8	14	NE (34)	79	0	
4/17/2022 22:00	-0.9	4	8	ENE (75)	84	0	
4/17/2022 23:00	-1.1	5	7	ENE (78)	83	0	
4/18/2022 0:00	-1	9	11	E (91)	85	0	
4/18/2022 1:00	-1.5	10	13	E (86)	87	0	
4/18/2022 2:00	-1.4	7	11	E (89)	86	0	
4/18/2022 3:00	-1.5	10	14	E (79)	84	0	
4/18/2022 4:00	-0.4	16	25	ESE (102)	79	0	
4/18/2022 5:00	-0.1	17	23	ENE (74)	68	0	
4/18/2022 6:00	-0.6	16	22	E (79)	70	0	
4/18/2022 7:00	-0.1	17	23	ENE (74)	70	0	
4/18/2022 8:00	1.1	20	29	E (83)	68	0	0.8
4/18/2022 9:00	2.6	23	35	E (88)	66	0	
4/18/2022 10:00	4.1	30	41	E (99)	51	0	
4/18/2022 11:00	4.6	28	39	SE (125)	53	0	
4/18/2022 12:00	5.1	24	31	ESE (114)	52	0	
4/18/2022 13:00	3.8	30	44	SE (132)	90	0	
4/18/2022 14:00	0.7	19	33	ESE (123)	100	0.4	
4/18/2022 15:00	0.1	12	20	E (92)	100	0.4	
4/18/2022 16:00	0.3	10	13	ENE (77)	100	1.2	
4/18/2022 17:00	0.2	11	15	ENE (78)	100	1.6	
4/18/2022 18:00	0.2	6	11	NNW (340)	100	1	
4/18/2022 19:00	0.2	10	15	NW (322)	100	0.4	
4/18/2022 20:00	0.1	11	16	NW (308)	100	0.4	
4/18/2022 21:00	0.1	11	17	W (263)	100	0.4	
4/18/2022 22:00	0	15	25	W (272)	100	0	
4/18/2022 23:00	-0.2	19	25	W (268)	100	0	
4/19/2022 0:00	-0.1	20	28	WSW (254)	100	0	
4/19/2022 1:00	0	21	29	WNW (286)	100	0	
4/19/2022 2:00	0	20	30	W (260)	100	0	
4/19/2022 3:00	0	21	29	W (268)	100	0	
4/19/2022 4:00	-0.1	20	27	W (264)	100	0	
4/19/2022 5:00	0.2	20	29	W (275)	100	0	
4/19/2022 6:00	0.3	24	36	WNW (288)	100	0	
4/19/2022 7:00	0.3	27	40	WNW (286)	100	0.2	
4/19/2022 8:00	0.6	29	41	NW (313)	100	0.8	6.8
4/19/2022 9:00	1	33	46	WNW (285)	94	1.8	
4/19/2022 10:00	1.2	33	47	WNW (282)	89	0.2	
4/19/2022 11:00	1.5	32	50	W (274)	85	0	
4/19/2022 12:00	2.1	37	53	WNW (289)	75	0	
4/19/2022 13:00	3	39	58	WNW (292)	72	0	
4/19/2022 14:00	3.4	41	61	WNW (288)	70	0	
4/19/2022 15:00	3.7	38	54	WNW (293)	69	0	
4/19/2022 16:00	4	36	55	NW (305)	66	0	
4/19/2022 17:00	4.2	35	56	WNW (300)	64	0	
4/19/2022 18:00	4	31	45	WNW (292)	64	0	
4/19/2022 19:00	3.8	28	44	WNW (292)	63	0	
4/19/2022 20:00	3.6	26	35	NW (322)	65	0	
4/19/2022 21:00	3.3	25	43	NW (305)	67	0	
4/19/2022 22:00	2.7	21	35	W (280)	66	0	
4/19/2022 23:00	2.1	19	26	WNW (303)	67	0	
4/20/2022 0:00	1.7	17	24	WNW (298)	69	0	
4/20/2022 1:00	0.6	9	19	W (266)	77	0	
4/20/2022 2:00	-0.2	8	11	W (259)	79	0	
4/20/2022 3:00	-0.6	6	9	WSW (237)	80	0	
4/20/2022 4:00	-1.2	7	9	SW (221)	81	0	
4/20/2022 5:00	-1.7	7	9	WSW (239)	82	0	
4/20/2022 6:00	-2.1	8	11	WSW (247)	83	0	
4/20/2022 7:00	-1.4	5	8	SW (225)	80	0	
4/20/2022 8:00	0.3	4	6	SW (214)	78	0	2
4/20/2022 9:00	2	2	8	WSW (258)	74	0	
4/20/2022 10:00	3.5	4	12	S (177)	72	0	
4/20/2022 11:00	5.1	7	17	SSE (150)	63	0	
4/20/2022 12:00	6.5	9	20	SSW (201)	55	0	
4/20/2022 13:00	7.4	14	24	W (262)	52	0	
4/20/2022 14:00	8.2	13	27	SSW (204)	50	0	
4/20/2022 15:00	8.8	15	26	S (170)	55	0	
4/20/2022 16:00	8.8	21	34	SSE (159)	60	0	
4/20/2022 17:00	8.3	23	32	SE (140)	59	0	
4/20/2022 18:00	8.5	21	29	SE (144)	51	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/20/2022 19:00	7.6	22	31	SE (125)	56	0	
4/20/2022 20:00	6.6	22	31	SE (126)	58	0	
4/20/2022 21:00	6.1	24	35	SE (142)	59	0	
4/20/2022 22:00	5.6	26	37	SE (129)	62	0	
4/20/2022 23:00	5.5	27	36	SE (129)	63	0	
4/21/2022 0:00	6	25	35	SE (124)	59	0	
4/21/2022 1:00	6.9	29	41	SE (126)	57	0	
4/21/2022 2:00	7.5	30	39	SE (141)	58	0	
4/21/2022 3:00	7.7	25	39	SE (144)	61	0	
4/21/2022 4:00	7.5	25	33	SE (141)	74	0.6	
4/21/2022 5:00	7.3	27	39	SSE (167)	86	1.8	
4/21/2022 6:00	8.2	25	36	SSE (162)	100	1	
4/21/2022 7:00	8.4	24	38	SSE (150)	100	1.4	
4/21/2022 8:00	8.9	22	37	SSW (202)	100	1	5.8
4/21/2022 9:00	9.5	21	34	SW (214)	100	0	
4/21/2022 10:00	10.4	26	43	SW (220)	100	0.2	
4/21/2022 11:00	11.3	26	38	SW (235)	100	0	
4/21/2022 12:00	13.2	25	37	W (265)	100	0	
4/21/2022 13:00	14	26	38	WNW (283)	81	0	
4/21/2022 14:00	14.9	25	38	WSW (258)	70	0	
4/21/2022 15:00	16	23	34	SW (235)	60	0	
4/21/2022 16:00	17	22	35	WSW (257)	53	0	
4/21/2022 17:00	17.1	28	42	WSW (247)	43	0	
4/21/2022 18:00	16.3	25	38	W (278)	43	0	
4/21/2022 19:00	15.6	20	32	W (281)	45	0	
4/21/2022 20:00	13.9	16	23	WNW (299)	48	0	
4/21/2022 21:00	11.9	15	20	W (261)	56	0	
4/21/2022 22:00	10.2	18	31	N (0)	67	0	
4/21/2022 23:00	6.9	16	26	N (0)	77	0	
4/22/2022 0:00	5.9	10	17	NE (44)	78	0	
4/22/2022 1:00	5.2	9	15	NNE (20)	77	0	
4/22/2022 2:00	4.5	8	13	NE (44)	77	0	
4/22/2022 3:00	3.7	8	13	N (8)	77	0	
4/22/2022 4:00	3.8	10	19	NNE (19)	77	0	
4/22/2022 5:00	2.7	6	10	NE (47)	82	0	
4/22/2022 6:00	2.5	7	10	NNE (14)	81	0	
4/22/2022 7:00	3.4	6	11	N (8)	80	0	
4/22/2022 8:00	5	8	19	N (6)	74	0	0.2
4/22/2022 9:00	6.1	11	21	NW (304)	72	0	
4/22/2022 10:00	7.1	8	17	ENE (58)	69	0	
4/22/2022 11:00	8.5	7	17	WNW (292)	62	0	
4/22/2022 12:00	9.8	5	12	ENE (64)	58	0	
4/22/2022 13:00	10.8	4	11	ENE (70)	54	0	
4/22/2022 14:00	11.5	4	12	N (354)	49	0	
4/22/2022 15:00	12.1	3	12	SSE (168)	47	0	
4/22/2022 16:00	12.1	8	21	N (5)	55	0	
4/22/2022 17:00	10.5	14	21	N (0)	57	0	
4/22/2022 18:00	9.9	9	13	N (9)	57	0	
4/22/2022 19:00	9.2	6	11	N (7)	58	0	
4/22/2022 20:00	8.4	6	10	ESE (112)	71	0	
4/22/2022 21:00	7.8	12	18	ESE (119)	80	0.6	
4/22/2022 22:00	7.5	13	19	ESE (121)	83	0.2	
4/22/2022 23:00	6.8	17	24	ESE (103)	80	0	
4/23/2022 0:00	7	19	26	E (93)	76	0	
4/23/2022 1:00	7.6	18	25	ESE (112)	70	0	
4/23/2022 2:00	7.4	17	23	ESE (122)	72	0	
4/23/2022 3:00	7.3	20	28	SE (128)	72	0	
4/23/2022 4:00	7.7	20	27	ESE (120)	70	0	
4/23/2022 5:00	7.9	20	26	ESE (114)	69	0	
4/23/2022 6:00	7.4	23	29	ESE (116)	80	0.2	
4/23/2022 7:00	7	25	33	ESE (120)	82	0	
4/23/2022 8:00	8.1	29	38	ESE (120)	81	0	1
4/23/2022 9:00	10.3	32	42	ESE (120)	80	0	
4/23/2022 10:00	12.3	33	44	SE (126)	74	0	
4/23/2022 11:00	15.1	34	42	SE (145)	72	0	
4/23/2022 12:00	17	31	41	SE (130)	60	0	
4/23/2022 13:00	18.1	27	36	SE (143)	58	0	
4/23/2022 14:00	18.8	25	36	SE (133)	57	0	
4/23/2022 15:00	19.1	29	36	SE (136)	57	0	
4/23/2022 16:00	19.4	30	37	SE (134)	55	0	
4/23/2022 17:00	19.2	29	36	ESE (120)	55	0	
4/23/2022 18:00	18.6	26	36	SE (139)	55	0	
4/23/2022 19:00	17.5	27	35	ESE (120)	59	0	
4/23/2022 20:00	16.3	26	34	SE (136)	64	0	
4/23/2022 21:00	15.6	25	35	SE (124)	66	0	
4/23/2022 22:00	13.8	28	41	ESE (117)	72	0	
4/23/2022 23:00	11	34	42	SE (132)	73	0	
4/24/2022 0:00	9.6	28	37	ESE (120)	77	0	
4/24/2022 1:00	8.7	27	34	ESE (115)	78	0	
4/24/2022 2:00	8.5	28	33	SE (126)	78	0	
4/24/2022 3:00	8.4	28	32	SE (131)	80	0	
4/24/2022 4:00	8.4	28	33	SE (131)	80	0	
4/24/2022 5:00	8.4	28	34	SE (124)	80	0	
4/24/2022 6:00	8.4	25	35	SE (132)	80	0	
4/24/2022 7:00	8.8	26	33	SE (130)	80	0	
4/24/2022 8:00	11.2	24	32	SE (134)	79	0	0
4/24/2022 9:00	15.3	24	31	SE (141)	72	0	
4/24/2022 10:00	19.8	22	30	S (173)	62	0	
4/24/2022 11:00	22.6	21	34	S (184)	53	0	
4/24/2022 12:00	24.5	21	39	SSW (200)	51	0	
4/24/2022 13:00	25.5	26	43	SW (222)	50	0	
4/24/2022 14:00	26	27	45	SSW (202)	50	0	
4/24/2022 15:00	25.8	24	39	S (185)	50	0	
4/24/2022 16:00	25.9	25	41	S (189)	50	0	
4/24/2022 17:00	26.1	27	47	SW (228)	48	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/24/2022 18:00	25.7	24	38	SSE (165)	49	0	
4/24/2022 19:00	24.8	22	37	S (175)	52	0	
4/24/2022 20:00	23.4	17	29	S (179)	54	0	
4/24/2022 21:00	20.5	19	62	SW (233)	82	0.6	
4/24/2022 22:00	18.4	9	15	SW (214)	90	0.2	
4/24/2022 23:00	17.9	12	18	SSW (210)	100	0.4	
4/25/2022 0:00	17.7	8	14	SSW (209)	100	0	
4/25/2022 1:00	17.5	6	9	SSE (151)	100	0	
4/25/2022 2:00	17.7	9	18	SSW (212)	100	0	
4/25/2022 3:00	17.2	7	12	S (191)	100	0	
4/25/2022 4:00	17.6	10	18	SW (226)	100	0	
4/25/2022 5:00	17.1	9	16	SSW (206)	100	0	
4/25/2022 6:00	16.8	8	19	SSW (213)	100	0	
4/25/2022 7:00	15.9	11	18	NNW (336)	100	0	
4/25/2022 8:00	15	8	13	WNW (291)	74	0	1.2
4/25/2022 9:00	14.9	4	11	W (276)	74	0	
4/25/2022 10:00	15	2	6	W (260)	73	0.2	
4/25/2022 11:00	15	2	7	S (174)	69	0	
4/25/2022 12:00	14.8	3	7	SSE (157)	74	0.8	
4/25/2022 13:00	14.8	2	9	SSE (160)	76	0.2	
4/25/2022 14:00	14	6	15	W (265)	84	1.4	
4/25/2022 15:00	13	7	15	NW (320)	89	0.6	
4/25/2022 16:00	12.3	9	18	WNW (296)	96	0	
4/25/2022 17:00	12.4	5	8	SSW (200)	96	0.2	
4/25/2022 18:00	12.8	7	13	WSW (257)	98	0	
4/25/2022 19:00	13	10	18	SW (232)	85	0	
4/25/2022 20:00	11.5	14	32	NW (312)	86	0	
4/25/2022 21:00	10.7	11	17	WNW (292)	79	0	
4/25/2022 22:00	10.3	10	17	WNW (286)	73	0	
4/25/2022 23:00	10.1	16	29	W (267)	71	0	
4/26/2022 0:00	9.3	18	27	W (260)	68	0	
4/26/2022 1:00	8.2	18	29	WNW (295)	70	0	
4/26/2022 2:00	6.5	17	28	WNW (290)	68	0	
4/26/2022 3:00	5.3	14	31	W (264)	70	0	
4/26/2022 4:00	4.1	12	18	W (280)	75	0	
4/26/2022 5:00	3.2	9	13	WSW (252)	77	0	
4/26/2022 6:00	2.9	8	12	SSW (206)	80	0	
4/26/2022 7:00	3.8	10	16	WSW (256)	78	0	
4/26/2022 8:00	5.3	16	26	WNW (296)	73	0	3.4
4/26/2022 9:00	5.7	16	24	W (270)	73	0	
4/26/2022 10:00	6	15	22	WNW (294)	73	0	
4/26/2022 11:00	6.4	15	26	W (269)	72	0	
4/26/2022 12:00	6.6	14	23	W (266)	71	0	
4/26/2022 13:00	6.7	11	18	WSW (243)	70	0	
4/26/2022 14:00	6.4	9	15	WNW (299)	71	0	
4/26/2022 15:00	6.3	10	19	W (272)	72	0	
4/26/2022 16:00	5.9	10	21	NW (313)	81	0	
4/26/2022 17:00	4.8	15	23	NNW (347)	100	0	
4/26/2022 18:00	2.8	12	18	N (7)	100	0	
4/26/2022 19:00	2.3	9	19	NW (320)	100	0	
4/26/2022 20:00	2.2	10	14	NW (307)	100	0	
4/26/2022 21:00	1.8	9	24	WNW (286)	100	0	
4/26/2022 22:00	1.8	14	34	WNW (294)	100	0.2	
4/26/2022 23:00	1.7	22	34	WNW (285)	100	0.2	
4/27/2022 0:00	1.4	22	33	NW (310)	100	0.2	
4/27/2022 1:00	0.5	16	22	NNW (333)	100	0.2	
4/27/2022 2:00	0.1	14	22	NNW (330)	100	0	
4/27/2022 3:00	-0.2	12	20	NNW (344)	100	0	
4/27/2022 4:00	-0.2	7	12	W (273)	100	0	
4/27/2022 5:00	-0.3	14	28	W (281)	100	0	
4/27/2022 6:00	-0.7	21	41	NNW (342)	100	0	
4/27/2022 7:00	-1.4	23	35	NW (308)	100	0	
4/27/2022 8:00	-1.3	25	36	NNW (335)	85	0	0.8
4/27/2022 9:00	-1.7	28	38	NW (313)	78	0	
4/27/2022 10:00	-1.8	28	41	NNW (327)	77	0	
4/27/2022 11:00	-1.1	26	39	NW (313)	69	0.6	
4/27/2022 12:00	-1	28	40	NW (317)	74	0	
4/27/2022 13:00	-0.9	28	40	NW (325)	76	0	
4/27/2022 14:00	-0.7	27	39	NW (304)	71	0	
4/27/2022 15:00	-1	24	37	NNW (327)	76	0	
4/27/2022 16:00	-1.1	22	36	NW (326)	73	0	
4/27/2022 17:00	-0.7	20	31	NNW (347)	72	0	
4/27/2022 18:00	-0.9	19	31	NW (318)	72	0	
4/27/2022 19:00	-0.8	16	31	N (351)	74	0	
4/27/2022 20:00	-1.5	13	24	NNW (327)	78	0	
4/27/2022 21:00	-1.7	9	17	WNW (303)	80	0	
4/27/2022 22:00	-2	7	11	NW (306)	82	0	
4/27/2022 23:00	-2.7	5	7	W (266)	83	0	
4/28/2022 0:00	-3.2	6	8	WSW (257)	84	0	
4/28/2022 1:00	-3.2	7	9	WSW (248)	86	0	
4/28/2022 2:00	-3.4	8	10	WSW (253)	89	0	
4/28/2022 3:00	-3.1	6	8	WNW (302)	86	0	
4/28/2022 4:00	-3	6	8	W (272)	86	0	
4/28/2022 5:00	-2.8	6	8	WNW (299)	86	0	
4/28/2022 6:00	-2.5	5	8	NW (305)	84	0	
4/28/2022 7:00	-1.6	4	6	WNW (284)	83	0	
4/28/2022 8:00	0.7	6	12	NNW (336)	82	0	0.6
4/28/2022 9:00	2.6	8	15	NE (41)	78	0	
4/28/2022 10:00	4	7	18	NE (35)	63	0	
4/28/2022 11:00	5	9	19	NNW (332)	51	0.2	
4/28/2022 12:00	5.8	12	26	NW (316)	46	0	
4/28/2022 13:00	6.1	14	23	NW (309)	39	0	
4/28/2022 14:00	6.3	14	27	NNW (335)	37	0	
4/28/2022 15:00	6.6	15	25	N (354)	37	0	
4/28/2022 16:00	6.1	16	26	NNW (343)	40	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/28/2022 17:00	5.8	14	23	NNE (12)	39	0	
4/28/2022 18:00	5.2	16	25	NNW (348)	36	0	
4/28/2022 19:00	3.9	15	23	NNW (334)	41	0	
4/28/2022 20:00	2.1	10	18	N (351)	51	0	
4/28/2022 21:00	0.6	6	13	NNE (12)	59	0	
4/28/2022 22:00	-0.3	6	15	NE (42)	63	0	
4/28/2022 23:00	-0.9	5	9	NE (54)	72	0	
4/29/2022 0:00	-1	3	7	N (3)	76	0	
4/29/2022 1:00	-0.9	2	7	NNE (32)	78	0	
4/29/2022 2:00	-1.1	5	9	NE (39)	83	0	
4/29/2022 3:00	-1.5	5	8	NE (43)	78	0	
4/29/2022 4:00	-1.3	8	11	ENE (75)	74	0	
4/29/2022 5:00	-1	8	11	E (87)	76	0	
4/29/2022 6:00	-1.2	7	12	ENE (59)	77	0	
4/29/2022 7:00	0.4	10	14	E (81)	67	0	
4/29/2022 8:00	3.2	12	19	ESE (109)	55	0	0.2
4/29/2022 9:00	6	17	24	ESE (117)	49	0	
4/29/2022 10:00	7.9	16	24	SE (128)	39	0	
4/29/2022 11:00	9	14	22	S (183)	34	0	
4/29/2022 12:00	10.2	9	21	SE (138)	36	0	
4/29/2022 13:00	11.2	8	17	SSE (153)	33	0	
4/29/2022 14:00	12	7	19	NW (324)	34	0	
4/29/2022 15:00	12.6	6	22	SE (134)	34	0	
4/29/2022 16:00	13.5	5	20	SSE (162)	32	0	
4/29/2022 17:00	14	6	20	NNE (28)	31	0	
4/29/2022 18:00	12	16	25	N (9)	36	0	
4/29/2022 19:00	9.8	12	20	N (349)	43	0	
4/29/2022 20:00	7.8	8	18	SSE (164)	53	0	
4/29/2022 21:00	7	3	8	E (83)	56	0	
4/29/2022 22:00	6.3	1	4	NNE (32)	65	0	
4/29/2022 23:00	5.2	5	13	ENE (75)	63	0	
4/30/2022 0:00	4.6	10	14	E (94)	70	0	
4/30/2022 1:00	3.6	5	11	ESE (108)	71	0	
4/30/2022 2:00	2.9	3	5	ESE (105)	71	0	
4/30/2022 3:00	2.3	5	11	E (93)	74	0	
4/30/2022 4:00	3	7	11	ESE (117)	66	0	
4/30/2022 5:00	2.8	12	18	E (79)	65	0	
4/30/2022 6:00	3.5	14	19	E (94)	59	0	
4/30/2022 7:00	5.1	15	26	ESE (109)	57	0	
4/30/2022 8:00	6.7	19	25	ESE (103)	50	0	0
4/30/2022 9:00	8.9	21	27	ESE (114)	48	0	
4/30/2022 10:00	11	21	29	SE (136)	44	0	
4/30/2022 11:00	12.6	24	30	ESE (114)	39	0	
4/30/2022 12:00	13.8	24	33	ESE (108)	32	0	
4/30/2022 13:00	14.6	23	32	SE (134)	32	0	
4/30/2022 14:00	15	22	33	ESE (114)	34	0	
4/30/2022 15:00	16	23	33	ESE (123)	32	0	
4/30/2022 16:00	16.3	21	31	SE (134)	31	0	
4/30/2022 17:00	16	22	28	SE (125)	29	0	
4/30/2022 18:00	15.3	21	28	ESE (110)	30	0	
4/30/2022 19:00	14.8	23	32	E (98)	31	0	
4/30/2022 20:00	13.8	24	41	ESE (112)	35	0	
4/30/2022 21:00	12.4	21	34	ESE (106)	38	0	
4/30/2022 22:00	10.9	27	35	E (101)	37	0	
4/30/2022 23:00	10.1	27	36	ESE (112)	38	0	
5/1/2022 0:00	10.2	28	38	ESE (104)	37	0	
5/1/2022 1:00	10.5	30	39	ESE (114)	37	0	
5/1/2022 2:00	11.1	29	39	ESE (104)	37	0	
5/1/2022 3:00	10.9	30	40	ESE (123)	36	0	
5/1/2022 4:00	10.2	32	43	ESE (122)	48	0	
5/1/2022 5:00	8.3	21	36	SSE (148)	73	1.8	
5/1/2022 6:00	6.4	24	33	ESE (110)	85	3.6	
5/1/2022 7:00	6.5	31	45	E (101)	88	0	
5/1/2022 8:00	7.6	33	46	ESE (118)	91	0	5.4
5/1/2022 9:00	9.7	32	43	SE (128)	84	0	
5/1/2022 10:00	12.1	33	43	SE (136)	77	0	
5/1/2022 11:00	12.4	34	46	SE (126)	72	0	
5/1/2022 12:00	12.2	33	46	SE (130)	81	0	
5/1/2022 13:00	12.3	34	45	ESE (114)	83	0	
5/1/2022 14:00	13.4	34	46	SE (140)	83	0	
5/1/2022 15:00	14.9	33	42	ESE (119)	83	0	
5/1/2022 16:00	15.8	29	42	SE (128)	84	0	
5/1/2022 17:00	14.8	27	40	ESE (123)	89	0	
5/1/2022 18:00	15.5	24	31	SE (130)	87	0	
5/1/2022 19:00	14.8	23	31	SE (142)	97	0	
5/1/2022 20:00	13.4	16	23	SSE (163)	100	0	
5/1/2022 21:00	12.6	16	23	SSE (164)	100	0	
5/1/2022 22:00	12	11	18	S (181)	100	0	
5/1/2022 23:00	11.7	8	13	SW (235)	100	0	
5/2/2022 0:00	11.6	3	8	WSW (243)	93	0	
5/2/2022 1:00	11.5	7	12	WNW (290)	82	0	
5/2/2022 2:00	10.6	4	12	SW (234)	100	0.2	
5/2/2022 3:00	10.1	7	21	WSW (252)	100	0.6	
5/2/2022 4:00	9.4	11	17	WSW (239)	100	0.2	
5/2/2022 5:00	9.2	13	20	WSW (257)	100	0	
5/2/2022 6:00	9.1	12	16	SW (226)	100	0	
5/2/2022 7:00	9.2	12	17	SW (234)	98	0	
5/2/2022 8:00	9.4	11	16	SW (228)	94	0	1
5/2/2022 9:00	9.5	11	17	SW (226)	93	0	
5/2/2022 10:00	10	14	22	SW (231)	80	0	
5/2/2022 11:00	10.2	18	26	SW (230)	78	0	
5/2/2022 12:00	11	17	31	WSW (254)	75	0	
5/2/2022 13:00	11.3	17	26	W (271)	73	0	
5/2/2022 14:00	11.4	17	27	WSW (251)	72	0	
5/2/2022 15:00	11.7	15	22	WSW (240)	70	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/2/2022 16:00	12.4	12	20	SW (227)	68	0	
5/2/2022 17:00	12.4	12	21	SW (230)	67	0	
5/2/2022 18:00	12.2	13	19	SW (219)	69	0	
5/2/2022 19:00	11.8	10	17	SW (223)	72	0	
5/2/2022 20:00	11.3	8	14	SW (218)	74	0	
5/2/2022 21:00	11	6	9	SSW (209)	76	0	
5/2/2022 22:00	10.8	5	8	SSW (206)	76	0	
5/2/2022 23:00	10.3	3	6	SW (226)	78	0	
5/3/2022 0:00	10.2	2	4	NW (308)	80	0	
5/3/2022 1:00	9.5	3	8	NE (45)	85	0	
5/3/2022 2:00	8.5	3	9	S (174)	85	0	
5/3/2022 3:00	7.9	2	5	E (96)	94	0	
5/3/2022 4:00	7.5	9	15	ESE (115)	100	0	
5/3/2022 5:00	7.3	7	10	SE (137)	100	0	
5/3/2022 6:00	7.1	9	13	E (88)	100	0	
5/3/2022 7:00	7.3	13	19	ESE (110)	100	0	
5/3/2022 8:00	8.6	17	24	SE (134)	100	0	0
5/3/2022 9:00	9.7	18	27	ESE (106)	93	0	
5/3/2022 10:00	10.4	15	23	ESE (118)	80	0	
5/3/2022 11:00	10.8	16	22	ESE (104)	82	0.6	
5/3/2022 12:00	10.6	17	25	ESE (112)	90	1.2	
5/3/2022 13:00	10.5	21	29	E (101)	100	1.6	
5/3/2022 14:00	11	26	37	ESE (105)	100	0.4	
5/3/2022 15:00	11.2	25	36	E (83)	100	2.4	
5/3/2022 16:00	11	25	32	E (96)	100	4.8	
5/3/2022 17:00	11.2	21	32	ENE (70)	100	0.6	
5/3/2022 18:00	11.1	13	20	NE (48)	100	0.4	
5/3/2022 19:00	10.7	15	23	NE (34)	100	0.2	
5/3/2022 20:00	10.2	17	24	NE (39)	100	0.2	
5/3/2022 21:00	9.9	20	30	NNE (28)	100	0.4	
5/3/2022 22:00	9.7	19	31	NE (39)	100	2.6	
5/3/2022 23:00	9.8	16	25	NNE (32)	100	1.2	
5/4/2022 0:00	10	16	25	NNE (17)	100	0.2	
5/4/2022 1:00	9.6	16	25	NW (320)	100	0	
5/4/2022 2:00	7.8	16	24	NNW (332)	100	0.6	
5/4/2022 3:00	7.6	17	29	N (8)	100	0.2	
5/4/2022 4:00	7.8	19	30	NNE (20)	100	0	
5/4/2022 5:00	7.5	16	27	NNW (343)	100	0	
5/4/2022 6:00	7.4	15	27	NNW (347)	100	0	
5/4/2022 7:00	7.5	16	27	NNW (338)	100	0	
5/4/2022 8:00	7.7	15	29	N (3)	100	0	17.6
5/4/2022 9:00	8.6	17	29	N (353)	100	0	
5/4/2022 10:00	8.4	18	28	N (349)	100	0	
5/4/2022 11:00	9.7	18	27	N (350)	100	0	
5/4/2022 12:00	10.2	21	30	NW (324)	100	0	
5/4/2022 13:00	9.2	21	33	NNW (331)	100	0	
5/4/2022 14:00	7	22	31	NNW (338)	100	0	
5/4/2022 15:00	6.8	22	33	NNW (328)	100	0	
5/4/2022 16:00	7.2	22	32	SSW (194)	99	0	
5/4/2022 17:00	7.6	21	30	NW (315)	90	0	
5/4/2022 18:00	6.9	21	32	WNW (298)	86	0	
5/4/2022 19:00	6.3	18	28	NNW (347)	85	0	
5/4/2022 20:00	5.1	14	24	NW (325)	90	0	
5/4/2022 21:00	4.1	11	20	NNW (333)	98	0	
5/4/2022 22:00	3.5	8	13	NNW (329)	100	0	
5/4/2022 23:00	3.2	6	12	NNW (334)	100	0	
5/5/2022 0:00	2.9	8	12	NNW (348)	100	0	
5/5/2022 1:00	2.7	7	11	NNE (18)	100	0	
5/5/2022 2:00	2.5	4	8	NNE (23)	100	0	
5/5/2022 3:00	2.6	5	8	ENE (62)	100	0	
5/5/2022 4:00	3.3	8	10	E (90)	100	0	
5/5/2022 5:00	3.6	7	10	ENE (65)	100	0	
5/5/2022 6:00	4.1	9	12	E (94)	100	0	
5/5/2022 7:00	6.1	14	20	E (87)	95	0	
5/5/2022 8:00	9.1	16	22	ESE (111)	76	0	0
5/5/2022 9:00	11	16	23	SE (143)	66	0	
5/5/2022 10:00	12.8	14	22	SE (125)	62	0	
5/5/2022 11:00	14	14	21	SE (124)	58	0	
5/5/2022 12:00	15.3	11	19	SE (136)	57	0	
5/5/2022 13:00	16	13	24	SE (140)	57	0	
5/5/2022 14:00	16.6	11	23	ESE (123)	54	0	
5/5/2022 15:00	16.6	12	21	S (186)	57	0	
5/5/2022 16:00	15.8	13	19	SE (137)	59	0	
5/5/2022 17:00	15.1	13	18	SSE (161)	62	0	
5/5/2022 18:00	14.3	10	15	SE (131)	63	0	
5/5/2022 19:00	13.7	5	9	ESE (108)	68	0	
5/5/2022 20:00	12.9	2	6	WSW (248)	75	0	
5/5/2022 21:00	11.5	5	9	NNE (14)	81	0	
5/5/2022 22:00	10.6	4	9	E (99)	82	0	
5/5/2022 23:00	10.9	7	10	ENE (71)	81	0	
5/6/2022 0:00	10.6	3	12	SE (125)	76	0	
5/6/2022 1:00	10.6	4	10	NE (42)	81	0	
5/6/2022 2:00	10.2	10	12	E (86)	70	0	
5/6/2022 3:00	10.6	10	15	ENE (69)	66	0	
5/6/2022 4:00	10.2	12	18	ENE (77)	64	0	
5/6/2022 5:00	10.4	14	21	ENE (62)	58	0	
5/6/2022 6:00	10.1	15	21	NE (50)	64	0	
5/6/2022 7:00	10.3	17	25	E (82)	61	0	
5/6/2022 8:00	10.8	18	24	E (83)	56	0	0
5/6/2022 9:00	11.2	22	31	ENE (69)	54	0	
5/6/2022 10:00	12.2	25	36	NE (54)	50	0	
5/6/2022 11:00	13.1	30	42	ENE (70)	50	0	
5/6/2022 12:00	13.9	30	44	E (81)	46	0	
5/6/2022 13:00	14.6	30	44	E (80)	45	0	
5/6/2022 14:00	15.4	31	42	E (89)	49	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/6/2022 15:00	16.1	34	44	NE (56)	50	0	
5/6/2022 16:00	16.3	33	46	ENE (68)	48	0	
5/6/2022 17:00	16.2	36	50	E (80)	42	0	
5/6/2022 18:00	14.9	32	44	ENE (74)	40	0	
5/6/2022 19:00	14	26	37	ENE (73)	42	0	
5/6/2022 20:00	13.4	24	34	ENE (60)	45	0	
5/6/2022 21:00	12.6	23	34	E (80)	47	0	
5/6/2022 22:00	11.8	22	30	NE (47)	49	0	
5/6/2022 23:00	11.4	21	33	NE (48)	52	0	
5/7/2022 0:00	11	21	30	ENE (71)	54	0	
5/7/2022 1:00	10.4	23	36	ENE (67)	55	0	
5/7/2022 2:00	9.7	21	30	ENE (61)	54	0	
5/7/2022 3:00	8.9	17	26	NE (48)	54	0	
5/7/2022 4:00	7.9	16	22	NE (50)	58	0	
5/7/2022 5:00	7.8	17	26	NE (45)	50	0	
5/7/2022 6:00	7.4	17	23	NE (49)	46	0	
5/7/2022 7:00	7.8	19	27	ENE (61)	45	0	
5/7/2022 8:00	9	27	38	ENE (70)	42	0	0
5/7/2022 9:00	10.5	31	43	ENE (57)	41	0	
5/7/2022 10:00	12.2	29	41	ENE (73)	39	0	
5/7/2022 11:00	13.5	27	38	NE (55)	39	0	
5/7/2022 12:00	14.5	26	43	ENE (69)	36	0	
5/7/2022 13:00	15.2	23	37	E (86)	36	0	
5/7/2022 14:00	15.9	22	34	E (84)	35	0	
5/7/2022 15:00	16.1	20	33	NW (320)	39	0	
5/7/2022 16:00	14.4	20	30	NNW (347)	41	0	
5/7/2022 17:00	14.3	21	30	N (2)	39	0	
5/7/2022 18:00	13.8	18	29	NNW (336)	39	0	
5/7/2022 19:00	12.8	13	24	NNW (340)	43	0	
5/7/2022 20:00	10.6	7	16	ENE (58)	55	0	
5/7/2022 21:00	8.4	4	7	N (349)	71	0	
5/7/2022 22:00	6.6	2	6	N (354)	71	0	
5/7/2022 23:00	5.8	3	7	ENE (72)	76	0	
5/8/2022 0:00	6.3	9	14	ENE (78)	76	0	
5/8/2022 1:00	6.4	10	14	ESE (103)	57	0	
5/8/2022 2:00	5.9	10	16	ENE (70)	59	0	
5/8/2022 3:00	5.1	13	18	E (81)	57	0	
5/8/2022 4:00	5.1	12	17	ENE (73)	57	0	
5/8/2022 5:00	4.1	12	16	ENE (69)	61	0	
5/8/2022 6:00	4.3	13	16	ENE (70)	62	0	
5/8/2022 7:00	6.2	15	23	E (93)	60	0	
5/8/2022 8:00	8.7	18	23	ESE (119)	57	0	0
5/8/2022 9:00	11.7	15	21	SE (126)	51	0	
5/8/2022 10:00	13.6	12	20	SSE (168)	51	0	
5/8/2022 11:00	14.9	15	27	SE (144)	40	0	
5/8/2022 12:00	15.9	20	32	E (82)	37	0	
5/8/2022 13:00	16.4	19	32	SE (128)	32	0	
5/8/2022 14:00	17.1	17	33	SE (142)	32	0	
5/8/2022 15:00	17.7	15	28	ESE (106)	32	0	
5/8/2022 16:00	18.2	14	27	SE (134)	28	0	
5/8/2022 17:00	18.5	15	30	SE (139)	30	0	
5/8/2022 18:00	18	16	28	SE (127)	33	0	
5/8/2022 19:00	16.6	13	25	ESE (117)	39	0	
5/8/2022 20:00	14.7	10	20	ESE (111)	48	0	
5/8/2022 21:00	12.9	14	21	E (94)	45	0	
5/8/2022 22:00	11	15	21	E (89)	48	0	
5/8/2022 23:00	9.8	12	18	E (96)	50	0	
5/9/2022 0:00	8.9	16	19	E (94)	51	0	
5/9/2022 1:00	8.7	16	20	E (83)	51	0	
5/9/2022 2:00	8.3	16	21	E (92)	55	0	
5/9/2022 3:00	7.6	16	23	ESE (116)	58	0	
5/9/2022 4:00	8.2	18	24	ESE (119)	55	0	
5/9/2022 5:00	8	21	25	ESE (114)	58	0	
5/9/2022 6:00	8	23	30	ESE (116)	58	0	
5/9/2022 7:00	9.2	22	26	ESE (120)	58	0	
5/9/2022 8:00	11.9	19	27	SE (125)	58	0	0
5/9/2022 9:00	14.8	22	30	ESE (120)	51	0	
5/9/2022 10:00	16.5	24	32	SE (145)	46	0	
5/9/2022 11:00	17.8	26	38	SE (138)	38	0	
5/9/2022 12:00	18.1	30	40	SSE (149)	35	0	
5/9/2022 13:00	18.8	29	40	SE (144)	34	0	
5/9/2022 14:00	19.2	29	41	SE (125)	31	0	
5/9/2022 15:00	19.6	29	44	SSE (149)	27	0	
5/9/2022 16:00	19.6	28	38	SE (126)	27	0	
5/9/2022 17:00	19.8	26	37	SE (138)	28	0	
5/9/2022 18:00	19.7	26	35	SE (131)	28	0	
5/9/2022 19:00	19.2	20	27	SE (130)	33	0	
5/9/2022 20:00	17.6	17	22	SE (128)	35	0	
5/9/2022 21:00	16.2	18	24	ESE (113)	38	0	
5/9/2022 22:00	15.2	25	32	ESE (106)	43	0	
5/9/2022 23:00	14	23	29	ESE (116)	44	0	
5/10/2022 0:00	13.1	23	31	SE (125)	48	0	
5/10/2022 1:00	12.4	21	30	ESE (118)	51	0	
5/10/2022 2:00	11.9	19	25	ESE (121)	53	0	
5/10/2022 3:00	11.3	19	23	SE (126)	54	0	
5/10/2022 4:00	11	18	24	ESE (115)	56	0	
5/10/2022 5:00	11	20	24	SE (124)	55	0	
5/10/2022 6:00	11.2	22	28	SE (127)	52	0	
5/10/2022 7:00	12.2	22	29	SE (127)	50	0	
5/10/2022 8:00	14.3	26	39	SE (132)	47	0	0
5/10/2022 9:00	16.2	29	38	SE (133)	41	0	
5/10/2022 10:00	18.7	35	51	SE (141)	34	0	
5/10/2022 11:00	19.9	36	57	SSE (148)	29	0	
5/10/2022 12:00	21.2	29	42	SSE (166)	28	0	
5/10/2022 13:00	22.3	26	40	SSE (157)	28	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/10/2022 14:00	23	25	35	SSE (159)	28	0	
5/10/2022 15:00	23.4	25	34	SE (130)	27	0	
5/10/2022 16:00	23.9	24	30	SE (128)	27	0	
5/10/2022 17:00	24.2	24	32	SE (138)	26	0	
5/10/2022 18:00	23.6	26	34	SE (124)	26	0	
5/10/2022 19:00	22.2	20	30	SE (124)	28	0	
5/10/2022 20:00	19.9	15	19	SE (127)	34	0	
5/10/2022 21:00	17.8	17	20	SE (128)	37	0	
5/10/2022 22:00	16.8	20	24	SE (126)	37	0	
5/10/2022 23:00	16.2	19	25	ESE (117)	38	0	
5/11/2022 0:00	15.9	20	25	ESE (113)	42	0	
5/11/2022 1:00	15.9	22	27	ESE (123)	41	0	
5/11/2022 2:00	15.7	22	29	SE (128)	42	0	
5/11/2022 3:00	15.1	19	24	SE (138)	45	0	
5/11/2022 4:00	15.1	21	27	SE (125)	45	0	
5/11/2022 5:00	15.3	18	23	ESE (116)	46	0	
5/11/2022 6:00	15.4	17	25	SE (129)	46	0	
5/11/2022 7:00	15.5	18	25	SE (131)	47	0	
5/11/2022 8:00	16.7	16	23	SSE (154)	47	0	0
5/11/2022 9:00	18.6	13	22	S (171)	42	0	
5/11/2022 10:00	19.6	14	20	SSE (158)	38	0	
5/11/2022 11:00	21.2	12	18	S (178)	39	0	
5/11/2022 12:00	22.9	9	16	SSE (158)	32	0	
5/11/2022 13:00	24.8	18	34	SSE (156)	30	0	
5/11/2022 14:00	25.7	21	30	SE (145)	29	0	
5/11/2022 15:00	26.3	16	25	SE (129)	25	0	
5/11/2022 16:00	26.6	12	21	SE (144)	23	0	
5/11/2022 17:00	25.8	14	19	SE (144)	25	0	
5/11/2022 18:00	25.3	14	20	SE (136)	24	0	
5/11/2022 19:00	24.1	11	16	ESE (120)	32	0	
5/11/2022 20:00	21.3	8	11	SE (129)	38	0	
5/11/2022 21:00	19	8	11	ESE (111)	46	0	
5/11/2022 22:00	18	8	12	SE (130)	46	0	
5/11/2022 23:00	16.9	5	10	ESE (115)	50	0	
5/12/2022 0:00	16	6	11	ENE (74)	54	0	
5/12/2022 1:00	15	5	10	NW (312)	54	0	
5/12/2022 2:00	13.6	3	10	ENE (58)	61	0	
5/12/2022 3:00	13.9	5	7	ESE (109)	58	0	
5/12/2022 4:00	11.8	4	8	NNE (33)	65	0	
5/12/2022 5:00	11.5	10	15	ESE (110)	64	0	
5/12/2022 6:00	12.8	13	16	E (95)	58	0	
5/12/2022 7:00	15	15	21	E (96)	53	0	
5/12/2022 8:00	17.4	19	25	ESE (116)	47	0	0
5/12/2022 9:00	19.5	15	22	SSE (150)	42	0	
5/12/2022 10:00	21.5	15	20	SE (125)	41	0	
5/12/2022 11:00	23.3	14	21	SSE (150)	39	0	
5/12/2022 12:00	25.4	14	21	SSE (160)	34	0	
5/12/2022 13:00	26.6	16	23	SSE (154)	30	0	
5/12/2022 14:00	27.6	18	26	SE (131)	29	0	
5/12/2022 15:00	28.5	19	30	SE (144)	23	0	
5/12/2022 16:00	28.7	18	27	SSE (168)	22	0	
5/12/2022 17:00	28.4	20	27	SSE (149)	22	0	
5/12/2022 18:00	27.6	20	28	SE (138)	21	0	
5/12/2022 19:00	25.4	15	21	SE (141)	27	0	
5/12/2022 20:00	22.6	12	15	SE (129)	32	0	
5/12/2022 21:00	20.7	12	14	SE (127)	41	0	
5/12/2022 22:00	19.4	13	17	SE (127)	42	0	
5/12/2022 23:00	19.1	17	21	SE (128)	32	0	
5/13/2022 0:00	18.6	18	24	ESE (123)	32	0	
5/13/2022 1:00	17.9	17	22	SE (126)	39	0	
5/13/2022 2:00	16.8	18	26	ESE (117)	46	0	
5/13/2022 3:00	16.1	16	26	SE (127)	56	0	
5/13/2022 4:00	15.5	14	19	ESE (122)	63	0	
5/13/2022 5:00	15.3	17	22	SE (126)	67	0	
5/13/2022 6:00	15.3	15	19	ESE (119)	70	0	
5/13/2022 7:00	16.6	17	23	SE (133)	70	0	
5/13/2022 8:00	19.2	20	31	SSE (150)	69	0	0
5/13/2022 9:00	21.3	24	32	SE (142)	63	0	
5/13/2022 10:00	22.9	21	31	S (174)	61	0	
5/13/2022 11:00	24	17	30	SE (138)	57	0	
5/13/2022 12:00	24.8	17	27	SE (141)	55	0	
5/13/2022 13:00	25.6	12	32	SE (144)	54	0	
5/13/2022 14:00	26.6	13	24	SE (125)	49	0	
5/13/2022 15:00	27.1	17	29	SE (139)	47	0	
5/13/2022 16:00	27.2	18	29	SSE (167)	45	0	
5/13/2022 17:00	27	18	30	SE (135)	45	0	
5/13/2022 18:00	26.6	22	31	SE (142)	46	0	
5/13/2022 19:00	25.8	17	28	SSE (155)	48	0	
5/13/2022 20:00	24.4	12	17	SE (132)	57	0	
5/13/2022 21:00	22	13	18	SE (140)	60	0	
5/13/2022 22:00	20.6	18	25	SE (126)	64	0	
5/13/2022 23:00	19.6	19	30	SE (131)	68	0	
5/14/2022 0:00	18.8	18	23	ESE (116)	69	0	
5/14/2022 1:00	18	15	21	ESE (120)	74	0	
5/14/2022 2:00	17.3	12	18	SE (128)	76	0	
5/14/2022 3:00	16.9	12	17	ESE (121)	77	0	
5/14/2022 4:00	16.7	17	23	SE (131)	82	0	
5/14/2022 5:00	16.2	18	24	SE (139)	88	0	
5/14/2022 6:00	16	19	23	SE (128)	93	0	
5/14/2022 7:00	17.1	20	28	SE (131)	90	0	
5/14/2022 8:00	19.4	18	26	SE (141)	82	0	0
5/14/2022 9:00	21.5	15	23	SSE (154)	73	0	
5/14/2022 10:00	23.1	14	22	ESE (123)	68	0	
5/14/2022 11:00	24.3	13	21	S (180)	62	0	
5/14/2022 12:00	25.8	13	24	SSW (196)	57	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/14/2022 13:00	26.8	12	23	SSE (165)	53	0	
5/14/2022 14:00	26.2	14	24	ESE (121)	51	0	
5/14/2022 15:00	27.4	19	28	SSE (154)	49	0	
5/14/2022 16:00	27.6	21	38	SSE (165)	46	0	
5/14/2022 17:00	26.6	19	31	S (188)	48	0	
5/14/2022 18:00	25.4	11	21	SSW (207)	50	0	
5/14/2022 19:00	24.2	9	21	SW (229)	60	0	
5/14/2022 20:00	22.4	15	37	NW (320)	68	0	
5/14/2022 21:00	19.2	12	27	NNE (26)	77	0	
5/14/2022 22:00	17.5	6	10	E (88)	82	0	
5/14/2022 23:00	16.6	7	16	WNW (303)	86	0	
5/15/2022 0:00	15.8	6	14	SE (130)	86	0	
5/15/2022 1:00	15.3	2	7	SW (236)	93	0	
5/15/2022 2:00	14.3	7	10	WSW (250)	100	0	
5/15/2022 3:00	14.3	5	7	W (269)	100	0	
5/15/2022 4:00	14.4	3	7	SSW (196)	100	0	
5/15/2022 5:00	14	4	10	ENE (76)	100	0	
5/15/2022 6:00	14.2	4	7	NE (42)	100	0	
5/15/2022 7:00	15.4	2	4	E (83)	100	0	
5/15/2022 8:00	17.5	1	5	W (279)	92	0	0
5/15/2022 9:00	20.2	7	16	WNW (294)	74	0	
5/15/2022 10:00	21.6	9	17	NNW (330)	66	0	
5/15/2022 11:00	23.7	7	19	NW (308)	61	0	
5/15/2022 12:00	25.3	12	24	W (276)	50	0	
5/15/2022 13:00	26.2	11	23	WNW (288)	43	0	
5/15/2022 14:00	27	11	22	NW (314)	39	0	
5/15/2022 15:00	28.1	11	23	WNW (303)	39	0	
5/15/2022 16:00	27.8	11	25	NNW (337)	34	0	
5/15/2022 17:00	28.1	14	23	NW (304)	33	0	
5/15/2022 18:00	23.4	21	59	WNW (303)	64	2.2	
5/15/2022 19:00	21.2	11	23	WNW (290)	62	0.2	
5/15/2022 20:00	20.6	16	34	S (179)	64	0	
5/15/2022 21:00	20	15	30	SW (234)	69	0	
5/15/2022 22:00	17.7	13	35	W (269)	83	0.6	
5/15/2022 23:00	17.1	3	11	NNE (32)	84	0	
5/16/2022 0:00	16.6	4	9	WNW (285)	94	0	
5/16/2022 1:00	16.6	21	38	WNW (294)	92	0.2	
5/16/2022 2:00	15.1	27	39	WNW (292)	89	0	
5/16/2022 3:00	13.4	23	36	N (350)	100	1.8	
5/16/2022 4:00	12.6	11	21	ENE (69)	100	0.4	
5/16/2022 5:00	11.1	10	17	NNW (331)	100	4.8	
5/16/2022 6:00	10	15	30	NW (321)	100	0.6	
5/16/2022 7:00	9.5	19	33	NNW (329)	100	2.2	
5/16/2022 8:00	10	18	30	N (5)	100	1.4	14.4
5/16/2022 9:00	10.8	15	22	N (354)	100	1	
5/16/2022 10:00	12.4	9	17	NNW (328)	100	0	
5/16/2022 11:00	13.9	11	22	NW (314)	91	0	
5/16/2022 12:00	14.4	18	25	W (278)	80	0	
5/16/2022 13:00	14.9	17	27	WNW (296)	77	0	
5/16/2022 14:00	16.1	15	27	WNW (284)	74	0	
5/16/2022 15:00	17.7	10	21	NW (323)	63	0	
5/16/2022 16:00	17.4	13	46	SW (229)	68	0.2	
5/16/2022 17:00	15.4	8	26	E (92)	73	0	
5/16/2022 18:00	16.9	3	13	SSW (201)	65	0	
5/16/2022 19:00	16.9	6	11	SSE (167)	71	0	
5/16/2022 20:00	15.8	7	15	SSW (203)	76	0	
5/16/2022 21:00	14.9	8	18	WSW (248)	82	0	
5/16/2022 22:00	13.7	8	26	N (3)	84	0	
5/16/2022 23:00	11.2	11	22	N (5)	80	0	
5/17/2022 0:00	10.7	12	25	NNW (345)	75	0	
5/17/2022 1:00	9.9	20	36	N (1)	72	0	
5/17/2022 2:00	8.8	19	31	N (354)	68	0	
5/17/2022 3:00	7.9	16	31	NNW (333)	73	0	
5/17/2022 4:00	7.2	12	22	NNW (338)	78	0	
5/17/2022 5:00	6.5	11	18	WNW (292)	84	0	
5/17/2022 6:00	6.4	8	14	NW (307)	87	0	
5/17/2022 7:00	8.7	17	27	NW (307)	82	0	
5/17/2022 8:00	9.7	23	34	NW (312)	71	0	1.2
5/17/2022 9:00	10.4	21	33	NNW (338)	69	0	
5/17/2022 10:00	10.8	21	31	WNW (288)	68	0	
5/17/2022 11:00	11.8	22	35	WNW (299)	65	0	
5/17/2022 12:00	12.1	22	32	NNW (330)	65	0	
5/17/2022 13:00	12.8	19	33	NNW (346)	61	0	
5/17/2022 14:00	13.3	14	25	NNW (345)	61	0	
5/17/2022 15:00	14	14	25	NW (309)	60	0	
5/17/2022 16:00	14.3	13	24	WNW (297)	56	0	
5/17/2022 17:00	14.4	13	21	WNW (297)	55	0	
5/17/2022 18:00	14.5	12	23	WNW (291)	56	0	
5/17/2022 19:00	13.9	8	14	NW (325)	59	0	
5/17/2022 20:00	11.4	10	15	N (353)	71	0	
5/17/2022 21:00	9.2	6	12	NNE (32)	75	0	
5/17/2022 22:00	8.1	5	8	NE (47)	79	0	
5/17/2022 23:00	7.5	4	7	ENE (60)	79	0	
5/18/2022 0:00	7.9	3	5	N (0)	77	0	
5/18/2022 1:00	6.7	3	6	NE (37)	84	0	
5/18/2022 2:00	6.3	5	8	NE (51)	93	0	
5/18/2022 3:00	6.1	5	8	ESE (102)	100	0	
5/18/2022 4:00	5.9	4	7	E (86)	100	0	
5/18/2022 5:00	5.9	6	9	E (88)	100	0	
5/18/2022 6:00	6.4	7	13	E (96)	95	0	
5/18/2022 7:00	8.9	10	16	ESE (109)	74	0	
5/18/2022 8:00	10.8	11	18	ESE (119)	69	0	0
5/18/2022 9:00	11.7	14	20	SE (136)	63	0	
5/18/2022 10:00	12.3	17	23	SE (141)	60	0	
5/18/2022 11:00	13	19	27	SE (145)	60	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/18/2022 12:00	13	19	26	SE (135)	59	0	
5/18/2022 13:00	12.3	17	26	SE (139)	70	0	
5/18/2022 14:00	12	13	19	SE (135)	76	0.2	
5/18/2022 15:00	11.7	18	24	SE (125)	82	0.2	
5/18/2022 16:00	11.3	20	27	SE (134)	89	0.6	
5/18/2022 17:00	11.1	18	25	ESE (121)	94	0.2	
5/18/2022 18:00	10.7	16	23	ESE (123)	100	0	
5/18/2022 19:00	10.4	14	22	ESE (121)	100	0	
5/18/2022 20:00	10.3	14	20	ESE (107)	100	0	
5/18/2022 21:00	10	16	22	ESE (110)	100	0	
5/18/2022 22:00	9.9	17	23	SE (125)	100	0	
5/18/2022 23:00	10	19	27	SE (129)	100	0	
5/19/2022 0:00	10.1	18	25	SE (140)	100	0	
5/19/2022 1:00	10	19	26	SE (138)	100	0	
5/19/2022 2:00	10.1	17	23	SE (128)	100	0	
5/19/2022 3:00	10.3	14	22	SSE (158)	100	0	
5/19/2022 4:00	10.5	10	16	SSE (154)	100	0	
5/19/2022 5:00	10.7	6	11	SSW (209)	100	0.2	
5/19/2022 6:00	11.1	7	13	SW (234)	100	0	
5/19/2022 7:00	11.6	10	16	W (281)	100	0	
5/19/2022 8:00	12.5	13	23	WNW (286)	100	0	1.4
5/19/2022 9:00	12.8	16	25	NW (304)	100	0	
5/19/2022 10:00	13.4	16	23	WNW (294)	100	0	
5/19/2022 11:00	15	11	21	WSW (251)	100	0	
5/19/2022 12:00	17.5	7	16	SW (223)	89	0	
5/19/2022 13:00	19.4	10	24	W (264)	68	0	
5/19/2022 14:00	20.7	9	21	SSW (199)	59	0	
5/19/2022 15:00	21.9	14	27	SW (218)	57	0	
5/19/2022 16:00	22.2	17	30	S (190)	57	0	
5/19/2022 17:00	22.5	15	28	SSW (204)	58	0	
5/19/2022 18:00	22.2	18	34	SW (218)	60	0	
5/19/2022 19:00	21.9	17	29	SW (215)	60	0	
5/19/2022 20:00	21.1	12	18	SSE (155)	66	0	
5/19/2022 21:00	20	14	18	SSE (154)	70	0	
5/19/2022 22:00	18.6	15	20	SE (134)	78	0	
5/19/2022 23:00	16.4	20	27	SSE (148)	83	0	
5/20/2022 0:00	15.9	16	25	SSE (154)	83	0	
5/20/2022 1:00	15.5	15	21	SE (134)	84	0	
5/20/2022 2:00	15.6	15	20	ESE (118)	84	0	
5/20/2022 3:00	16.2	18	24	SE (137)	85	0	
5/20/2022 4:00	16.7	17	24	ESE (118)	86	0	
5/20/2022 5:00	16.8	18	25	SE (144)	86	0	
5/20/2022 6:00	17.9	19	30	SW (231)	100	2.4	
5/20/2022 7:00	18.2	18	28	SSE (158)	100	2.4	
5/20/2022 8:00	19.5	23	33	SE (145)	88	0	4.8
5/20/2022 9:00	20.8	25	39	S (172)	78	0	
5/20/2022 10:00	21.4	26	40	SSW (202)	75	0	
5/20/2022 11:00	21	24	37	S (188)	79	0	
5/20/2022 12:00	21.4	21	34	SSE (162)	82	0	
5/20/2022 13:00	23	20	34	SSE (168)	81	0	
5/20/2022 14:00	24.2	24	37	SSW (202)	76	0	
5/20/2022 15:00	24.9	24	40	SSE (154)	74	0	
5/20/2022 16:00	25.6	30	44	SSE (168)	73	0	
5/20/2022 17:00	25.9	27	48	SSW (202)	70	0	
5/20/2022 18:00	26.2	24	44	SW (220)	67	0	
5/20/2022 19:00	26.2	19	35	S (190)	65	0	
5/20/2022 20:00	25	14	22	S (177)	68	0	
5/20/2022 21:00	23.6	15	23	S (182)	72	0	
5/20/2022 22:00	23.4	16	25	SSW (192)	69	0	
5/20/2022 23:00	23.8	15	22	S (169)	67	0	
5/21/2022 0:00	23.7	15	24	S (183)	66	0	
5/21/2022 1:00	23.4	14	25	SSW (207)	66	0	
5/21/2022 2:00	23	16	27	SSW (205)	71	0	
5/21/2022 3:00	22.3	16	27	SSW (211)	76	0	
5/21/2022 4:00	21.4	15	24	WSW (237)	81	0	
5/21/2022 5:00	16.6	14	30	WNW (282)	98	0	
5/21/2022 6:00	13.9	7	15	E (98)	100	0	
5/21/2022 7:00	16.7	5	11	S (181)	98	0	
5/21/2022 8:00	20.9	9	16	SSE (166)	85	0	0
5/21/2022 9:00	22.9	17	31	WSW (240)	76	0	
5/21/2022 10:00	24.3	20	35	W (273)	71	0	
5/21/2022 11:00	17.8	21	77	ENE (65)	100	12.8	
5/21/2022 12:00	18.8	12	24	SSE (156)	100	0	
5/21/2022 13:00	21.3	20	31	NW (308)	95	0	
5/21/2022 14:00	17.5	21	29	N (4)	100	0	
5/21/2022 15:00	18.9	13	24	NW (314)	94	0.2	
5/21/2022 16:00	19.1	16	28	NW (321)	81	0	
5/21/2022 17:00	19.5	14	22	NNE (16)	76	0	
5/21/2022 18:00	18.7	13	21	NE (35)	78	0	
5/21/2022 19:00	17.8	8	13	NE (48)	81	0	
5/21/2022 20:00	17.1	7	13	NE (50)	88	0	
5/21/2022 21:00	16.9	10	17	SE (130)	87	0	
5/21/2022 22:00	16.8	5	13	N (354)	96	0	
5/21/2022 23:00	16.1	4	9	SSE (163)	100	0	
5/22/2022 0:00	15.4	3	7	N (0)	100	0	
5/22/2022 1:00	15.1	3	6	WNW (299)	100	0	
5/22/2022 2:00	15	4	9	NW (312)	100	0	
5/22/2022 3:00	13.5	9	16	NW (309)	100	0	
5/22/2022 4:00	11	11	16	NW (318)	100	0	
5/22/2022 5:00	9.4	14	23	NW (316)	100	0	
5/22/2022 6:00	7.2	21	30	NNW (327)	100	0	
5/22/2022 7:00	6.5	22	33	NNW (333)	100	0	
5/22/2022 8:00	6.4	20	33	NW (311)	100	0	13
5/22/2022 9:00	6.7	17	30	N (0)	100	0	
5/22/2022 10:00	7.7	13	26	N (351)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/22/2022 11:00	8.7	16	28	NW (322)	100	0	
5/22/2022 12:00	8.5	15	26	NNW (338)	100	0	
5/22/2022 13:00	8.2	14	21	WNW (296)	100	0	
5/22/2022 14:00	9.4	18	26	NW (312)	100	0	
5/22/2022 15:00	11.6	17	26	NNW (327)	88	0	
5/22/2022 16:00	12.6	11	19	N (352)	74	0	
5/22/2022 17:00	12.4	9	15	N (0)	75	0	
5/22/2022 18:00	12.3	10	18	NNW (342)	76	0	
5/22/2022 19:00	11.2	8	12	N (2)	81	0	
5/22/2022 20:00	10.2	6	9	NW (326)	85	0	
5/22/2022 21:00	10.2	6	13	NW (325)	87	0	
5/22/2022 22:00	8.9	9	18	N (354)	93	0	
5/22/2022 23:00	8.2	7	11	N (0)	100	0	
5/23/2022 0:00	8.6	5	8	N (7)	100	0	
5/23/2022 1:00	8.7	4	7	NE (56)	100	0	
5/23/2022 2:00	8.9	3	6	N (353)	98	0	
5/23/2022 3:00	8.4	7	13	NNW (344)	82	0	
5/23/2022 4:00	7.8	7	13	N (8)	92	0	
5/23/2022 5:00	7.7	7	11	NNW (335)	97	0	
5/23/2022 6:00	7.4	8	14	N (1)	96	0	
5/23/2022 7:00	8	8	17	N (353)	86	0	
5/23/2022 8:00	8.9	12	19	N (5)	82	0	0
5/23/2022 9:00	9.9	13	23	N (8)	78	0	
5/23/2022 10:00	10.8	14	22	NNW (327)	70	0	
5/23/2022 11:00	11.3	14	25	NNE (19)	69	0	
5/23/2022 12:00	11.5	14	26	NNW (346)	64	0	
5/23/2022 13:00	11.9	15	26	N (352)	62	0	
5/23/2022 14:00	12.3	13	23	N (351)	59	0	
5/23/2022 15:00	12.5	13	22	NNW (346)	56	0	
5/23/2022 16:00	12	17	25	N (354)	55	0	
5/23/2022 17:00	11.4	16	25	NNE (17)	52	0	
5/23/2022 18:00	11.3	12	21	NNW (337)	50	0	
5/23/2022 19:00	10.8	12	20	NNW (346)	51	0	
5/23/2022 20:00	9.8	9	15	NNW (329)	55	0	
5/23/2022 21:00	8	7	13	NNE (20)	70	0	
5/23/2022 22:00	6.6	4	9	NNW (342)	78	0	
5/23/2022 23:00	6.4	3	6	N (354)	81	0	
5/24/2022 0:00	6	4	8	N (352)	84	0	
5/24/2022 1:00	5.4	4	7	NNE (33)	88	0	
5/24/2022 2:00	5.5	6	10	NNE (31)	90	0	
5/24/2022 3:00	5.9	7	9	N (9)	86	0	
5/24/2022 4:00	5.1	5	8	NNE (12)	85	0	
5/24/2022 5:00	4.9	5	10	NNE (22)	89	0	
5/24/2022 6:00	5.1	5	7	NNE (14)	86	0	
5/24/2022 7:00	7.7	6	10	ENE (60)	85	0	
5/24/2022 8:00	10.5	7	13	ENE (60)	74	0	0
5/24/2022 9:00	12.6	9	15	NE (49)	67	0	
5/24/2022 10:00	14.9	9	19	N (5)	60	0	
5/24/2022 11:00	16.4	8	15	NW (309)	55	0	
5/24/2022 12:00	17.4	6	19	SE (138)	56	0	
5/24/2022 13:00	17.8	7	24	NNW (341)	53	0	
5/24/2022 14:00	17	17	29	NW (312)	55	0	
5/24/2022 15:00	16.8	18	29	NW (317)	53	0	
5/24/2022 16:00	16.9	16	25	N (1)	53	0	
5/24/2022 17:00	16.4	17	29	N (353)	53	0	
5/24/2022 18:00	15.9	16	27	N (5)	54	0	
5/24/2022 19:00	15.1	16	28	NNE (16)	56	0	
5/24/2022 20:00	14.2	10	18	N (3)	62	0	
5/24/2022 21:00	12.4	4	10	NE (47)	69	0	
5/24/2022 22:00	11.8	6	18	SE (125)	73	0	
5/24/2022 23:00	11.1	6	11	E (92)	79	0	
5/25/2022 0:00	11.6	9	14	E (95)	78	0	
5/25/2022 1:00	11.6	9	13	E (90)	67	0	
5/25/2022 2:00	11.2	12	17	E (94)	68	0	
5/25/2022 3:00	11.1	13	16	E (94)	68	0	
5/25/2022 4:00	10.5	14	19	E (95)	71	0	
5/25/2022 5:00	10.4	16	19	E (96)	73	0	
5/25/2022 6:00	10.4	17	22	E (100)	74	0	
5/25/2022 7:00	11.8	17	21	E (95)	74	0	
5/25/2022 8:00	14.1	21	30	ESE (108)	75	0	0
5/25/2022 9:00	16.5	21	29	SE (129)	75	0	
5/25/2022 10:00	18.4	23	32	ESE (102)	71	0	
5/25/2022 11:00	19.7	28	38	SE (127)	66	0	
5/25/2022 12:00	19.9	30	39	SE (124)	63	0	
5/25/2022 13:00	20	30	42	ESE (106)	60	0	
5/25/2022 14:00	20	27	37	SE (129)	60	0	
5/25/2022 15:00	20.2	27	34	ESE (117)	62	0	
5/25/2022 16:00	19.9	26	38	ESE (120)	77	0.2	
5/25/2022 17:00	18.6	20	32	ESE (110)	80	0.4	
5/25/2022 18:00	17.9	27	35	ESE (115)	84	0	
5/25/2022 19:00	18.1	28	38	ESE (110)	83	0	
5/25/2022 20:00	18.4	25	33	SE (125)	77	0	
5/25/2022 21:00	17.4	27	34	SE (130)	77	0	
5/25/2022 22:00	17.2	25	36	SE (131)	78	0	
5/25/2022 23:00	17.1	23	29	SE (125)	78	0	
5/26/2022 0:00	17.7	26	33	SE (136)	74	0	
5/26/2022 1:00	17.6	26	34	SSE (148)	76	0	
5/26/2022 2:00	17	22	32	SE (145)	86	0.8	
5/26/2022 3:00	16.2	21	26	SE (132)	89	0.6	
5/26/2022 4:00	15.8	22	31	SE (130)	100	3	
5/26/2022 5:00	15.8	23	31	SE (125)	100	0	
5/26/2022 6:00	16.3	22	30	SSE (154)	100	0	
5/26/2022 7:00	17.3	21	30	S (171)	100	0	
5/26/2022 8:00	18.3	19	29	S (178)	100	0	5
5/26/2022 9:00	19.5	17	29	S (180)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/26/2022 10:00	21.5	19	35	SSW (197)	85	0	
5/26/2022 11:00	21.8	20	36	SW (228)	78	0	
5/26/2022 12:00	22.5	21	40	SSW (212)	76	0	
5/26/2022 13:00	23.5	20	37	SE (141)	72	0	
5/26/2022 14:00	23.9	20	38	S (176)	71	0	
5/26/2022 15:00	23.9	22	37	SSW (203)	71	0	
5/26/2022 16:00	23.4	22	35	SSE (165)	72	0	
5/26/2022 17:00	22.5	25	44	S (177)	73	0	
5/26/2022 18:00	21.7	20	36	S (186)	78	0	
5/26/2022 19:00	21.4	13	26	SSW (200)	79	0	
5/26/2022 20:00	20.7	13	20	S (175)	87	0	
5/26/2022 21:00	19.8	7	15	SSW (204)	96	0	
5/26/2022 22:00	19.6	8	18	S (188)	99	0	
5/26/2022 23:00	18.7	14	24	SW (215)	100	0	
5/27/2022 0:00	18.1	15	28	SSW (212)	100	0	
5/27/2022 1:00	17.3	13	20	SW (214)	100	0.2	
5/27/2022 2:00	17.1	13	21	S (187)	100	0.2	
5/27/2022 3:00	17	9	14	S (191)	100	0.4	
5/27/2022 4:00	17	11	19	S (180)	100	0	
5/27/2022 5:00	16.8	12	17	SSE (152)	100	0	
5/27/2022 6:00	16.5	12	18	SSE (153)	100	0	
5/27/2022 7:00	16.8	12	18	S (183)	100	0	
5/27/2022 8:00	17.4	12	20	S (182)	100	0.6	1.4
5/27/2022 9:00	17.8	11	20	SSE (158)	100	0.2	
5/27/2022 10:00	18.9	11	20	SSE (154)	100	0	
5/27/2022 11:00	19.6	10	18	SSW (195)	96	0	
5/27/2022 12:00	19.7	12	24	SSE (167)	98	0	
5/27/2022 13:00	20.9	13	20	W (267)	98	0	
5/27/2022 14:00	22.2	15	23	SSW (211)	85	0	
5/27/2022 15:00	20.6	12	24	NW (310)	88	1	
5/27/2022 16:00	20.5	15	25	NNW (331)	83	0	
5/27/2022 17:00	16.7	17	26	N (353)	100	0	
5/27/2022 18:00	12.6	15	26	N (11)	100	0	
5/27/2022 19:00	12.9	15	30	WNW (295)	100	0	
5/27/2022 20:00	13.1	12	22	NNE (19)	100	0	
5/27/2022 21:00	13.4	8	15	N (352)	100	0	
5/27/2022 22:00	12.8	12	22	NNW (338)	100	0	
5/27/2022 23:00	12.7	10	19	N (350)	100	0	
5/28/2022 0:00	12.7	10	18	N (10)	100	0	
5/28/2022 1:00	12.3	10	19	NW (316)	93	0	
5/28/2022 2:00	11.5	13	23	NW (326)	89	0	
5/28/2022 3:00	10.9	14	27	NNW (330)	87	0	
5/28/2022 4:00	10.2	16	26	NNW (332)	98	0	
5/28/2022 5:00	9.6	13	19	NW (321)	100	0	
5/28/2022 6:00	9.4	14	20	NW (323)	100	0	
5/28/2022 7:00	9.8	13	21	NNW (331)	100	0	
5/28/2022 8:00	11.1	11	19	NW (321)	100	0	1.2
5/28/2022 9:00	12.8	11	17	NW (310)	91	0	
5/28/2022 10:00	14.5	12	20	N (6)	78	0	
5/28/2022 11:00	15.7	13	23	WNW (301)	72	0	
5/28/2022 12:00	16.4	14	24	NW (315)	70	0	
5/28/2022 13:00	17	12	25	NW (313)	63	0	
5/28/2022 14:00	17.5	14	22	WNW (290)	58	0	
5/28/2022 15:00	18.1	17	29	NW (313)	55	0	
5/28/2022 16:00	18.4	15	27	NW (326)	53	0	
5/28/2022 17:00	18.5	12	24	WNW (294)	55	0	
5/28/2022 18:00	18.6	8	15	NNE (15)	57	0	
5/28/2022 19:00	17.4	8	14	E (80)	60	0	
5/28/2022 20:00	16.5	7	11	NE (44)	66	0	
5/28/2022 21:00	15.6	7	10	NE (56)	69	0	
5/28/2022 22:00	15	9	15	E (82)	71	0	
5/28/2022 23:00	15	9	13	E (97)	75	0	
5/29/2022 0:00	14.7	8	12	ESE (121)	81	0	
5/29/2022 1:00	14.8	9	13	SE (146)	81	0	
5/29/2022 2:00	14.8	9	12	SE (144)	78	0	
5/29/2022 3:00	14.5	8	12	ESE (119)	81	0	
5/29/2022 4:00	14.4	12	17	SE (127)	81	0	
5/29/2022 5:00	14.4	12	14	ESE (123)	79	0	
5/29/2022 6:00	14.2	14	18	SE (125)	79	0	
5/29/2022 7:00	15.6	16	22	SSE (152)	77	0	
5/29/2022 8:00	17.3	14	20	SSE (160)	74	0	0
5/29/2022 9:00	19.6	10	15	S (183)	73	0	
5/29/2022 10:00	21.6	11	20	SW (215)	66	0	
5/29/2022 11:00	22.5	13	24	SSW (195)	60	0	
5/29/2022 12:00	23.5	14	27	S (184)	59	0	
5/29/2022 13:00	24.2	17	30	SW (225)	55	0	
5/29/2022 14:00	25.1	16	32	SSE (168)	53	0	
5/29/2022 15:00	25.6	19	29	SSE (165)	50	0	
5/29/2022 16:00	25.3	20	31	S (175)	49	0	
5/29/2022 17:00	25	18	31	S (182)	50	0	
5/29/2022 18:00	24.6	19	33	SSW (197)	53	0	
5/29/2022 19:00	24.2	16	29	S (178)	55	0	
5/29/2022 20:00	22.4	19	29	SE (131)	65	0	
5/29/2022 21:00	20.2	19	26	SE (133)	67	0	
5/29/2022 22:00	19.2	19	26	SE (132)	69	0	
5/29/2022 23:00	18.5	20	26	SE (132)	73	0	
5/30/2022 0:00	18.1	21	28	SE (139)	74	0	
5/30/2022 1:00	17.7	17	27	SE (126)	75	0	
5/30/2022 2:00	17.6	15	22	SE (145)	76	0	
5/30/2022 3:00	18.2	17	24	SSE (160)	76	0	
5/30/2022 4:00	18.5	18	23	SSE (168)	77	0	
5/30/2022 5:00	18.8	14	22	SSE (163)	78	0	
5/30/2022 6:00	18.9	13	19	S (171)	79	0	
5/30/2022 7:00	19.9	14	21	S (186)	77	0	
5/30/2022 8:00	21.9	14	26	SSW (203)	71	0	0

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/30/2022 9:00	24.1	17	31	SSW (206)	65	0	
5/30/2022 10:00	25.9	19	29	S (191)	57	0	
5/30/2022 11:00	27.2	22	36	SSW (205)	52	0	
5/30/2022 12:00	28.2	27	41	SSW (208)	48	0	
5/30/2022 13:00	29	25	40	S (184)	44	0	
5/30/2022 14:00	29.2	28	46	SW (228)	42	0	
5/30/2022 15:00	29.8	27	51	SW (218)	41	0	
5/30/2022 16:00	30.1	29	45	SW (232)	39	0	
5/30/2022 17:00	30	28	44	SW (231)	40	0	
5/30/2022 18:00	29.6	24	41	SSW (201)	41	0	
5/30/2022 19:00	28.8	18	34	SW (216)	45	0	
5/30/2022 20:00	27.4	12	19	S (172)	50	0	
5/30/2022 21:00	25.6	13	22	SSE (167)	56	0	
5/30/2022 22:00	24.7	14	23	S (180)	57	0	
5/30/2022 23:00	23.8	13	20	SSE (168)	60	0	
5/31/2022 0:00	22.9	14	19	SSE (165)	63	0	
5/31/2022 1:00	21.8	14	19	SSE (167)	67	0	
5/31/2022 2:00	21.2	10	16	SW (221)	69	0	
5/31/2022 3:00	22.5	9	18	SSE (168)	68	0	
5/31/2022 4:00	20.9	9	12	SSE (160)	72	0	
5/31/2022 5:00	20.3	10	13	SSE (163)	75	0	
5/31/2022 6:00	20.3	12	17	SSE (166)	75	0	
5/31/2022 7:00	21.9	12	19	S (189)	75	0	
5/31/2022 8:00	24.2	14	24	SW (231)	67	0	0
5/31/2022 9:00	26	18	31	SW (233)	64	0	
5/31/2022 10:00	27.4	22	33	SW (219)	56	0	
5/31/2022 11:00	28.4	20	32	WSW (255)	54	0	
5/31/2022 12:00	28.9	21	35	SW (229)	51	0	
5/31/2022 13:00	30.2	21	35	SW (220)	46	0	
5/31/2022 14:00	30.6	25	46	SSW (199)	46	0	
5/31/2022 15:00	30.9	31	48	SW (230)	43	0	
5/31/2022 16:00	31	29	47	SSW (196)	42	0	
5/31/2022 17:00	31.2	26	39	SW (236)	42	0	
5/31/2022 18:00	31.1	25	38	SW (233)	41	0	
5/31/2022 19:00	30.1	16	27	WSW (241)	46	0	
5/31/2022 20:00	28.7	10	20	SW (220)	52	0	
5/31/2022 21:00	26.9	6	11	SW (214)	57	0	
5/31/2022 22:00	25.5	7	12	S (189)	63	0	
5/31/2022 23:00	24.6	9	13	S (173)	65	0	
6/1/2022 0:00	24.9	11	19	SSW (204)	61	0	
6/1/2022 1:00	24.1	12	19	SSW (202)	65	0	
6/1/2022 2:00	23.7	13	21	SSW (206)	65	0	
6/1/2022 3:00	23.2	11	18	SW (228)	68	0	
6/1/2022 4:00	22.8	11	18	SSW (201)	69	0	
6/1/2022 5:00	22.3	10	15	SSW (201)	71	0	
6/1/2022 6:00	21.8	9	17	SW (217)	72	0	
6/1/2022 7:00	22.9	14	24	SW (228)	71	0	
6/1/2022 8:00	24.5	19	28	WSW (240)	68	0	0
6/1/2022 9:00	25.5	20	30	WSW (256)	64	0	
6/1/2022 10:00	26	20	31	WSW (239)	64	0	
6/1/2022 11:00	26.4	17	29	W (262)	64	0	
6/1/2022 12:00	25.8	21	29	NNW (334)	69	0	
6/1/2022 13:00	23.1	18	28	N (6)	85	0	
6/1/2022 14:00	17.8	11	25	NNE (32)	92	0	
6/1/2022 15:00	17.4	10	20	NW (310)	84	0	
6/1/2022 16:00	16.4	15	22	NNW (327)	79	0.2	
6/1/2022 17:00	14.8	11	23	N (349)	79	0	
6/1/2022 18:00	14.9	10	20	NNW (332)	77	0	
6/1/2022 19:00	15.5	16	23	NW (317)	76	0	
6/1/2022 20:00	15.5	11	17	NNW (337)	77	0	
6/1/2022 21:00	14.3	9	16	N (5)	79	0	
6/1/2022 22:00	14.1	11	18	N (7)	77	0	
6/1/2022 23:00	13.6	7	12	NE (36)	79	0	
6/2/2022 0:00	12.8	5	10	N (354)	83	0	
6/2/2022 1:00	12	8	13	N (5)	82	0	
6/2/2022 2:00	11.5	7	14	NNW (344)	77	0	
6/2/2022 3:00	11.2	8	18	N (0)	83	0	
6/2/2022 4:00	10.7	12	19	NNW (330)	70	0	
6/2/2022 5:00	9.7	10	20	NNW (341)	72	0	
6/2/2022 6:00	9.6	8	17	N (3)	73	0	
6/2/2022 7:00	10.2	9	17	NNW (342)	71	0	
6/2/2022 8:00	10.9	10	19	NNW (346)	64	0	0.2
6/2/2022 9:00	12.4	11	18	NNW (334)	61	0	
6/2/2022 10:00	13.4	12	21	WNW (302)	57	0	
6/2/2022 11:00	13.2	15	22	NW (319)	58	0	
6/2/2022 12:00	12.3	13	23	WNW (296)	58	0	
6/2/2022 13:00	13.3	13	20	WNW (298)	59	0	
6/2/2022 14:00	14.4	13	20	WNW (292)	53	0	
6/2/2022 15:00	16.6	11	19	WNW (284)	54	0	
6/2/2022 16:00	18.6	11	26	NNW (339)	53	0	
6/2/2022 17:00	19.4	13	24	NW (310)	50	0	
6/2/2022 18:00	19.2	11	20	N (0)	45	0	
6/2/2022 19:00	19.1	8	15	N (0)	45	0	
6/2/2022 20:00	17.8	5	8	NE (35)	51	0	
6/2/2022 21:00	15	6	9	N (10)	60	0	
6/2/2022 22:00	13.2	5	8	E (92)	64	0	
6/2/2022 23:00	13.2	3	6	SE (128)	65	0	
6/3/2022 0:00	12.4	3	7	SSE (163)	73	0	
6/3/2022 1:00	11.6	2	8	NW (312)	79	0	
6/3/2022 2:00	10.4	3	7	SSE (152)	79	0	
6/3/2022 3:00	10.2	5	11	ESE (106)	83	0	
6/3/2022 4:00	10.6	5	7	ESE (105)	81	0	
6/3/2022 5:00	10.3	4	8	SSW (211)	84	0	
6/3/2022 6:00	10.3	3	7	SW (215)	86	0	
6/3/2022 7:00	12.4	5	14	SW (217)	84	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/3/2022 8:00	14.8	8	15	WSW (246)	84	0	0
6/3/2022 9:00	17.9	8	14	SW (216)	72	0	
6/3/2022 10:00	20.5	9	18	SW (219)	53	0	
6/3/2022 11:00	22.1	12	26	WSW (248)	42	0	
6/3/2022 12:00	23.1	16	29	SW (221)	34	0	
6/3/2022 13:00	24.1	17	35	S (172)	32	0	
6/3/2022 14:00	23.6	19	36	SW (230)	34	0	
6/3/2022 15:00	24.3	22	43	SW (231)	33	0	
6/3/2022 16:00	24.4	21	49	WNW (293)	30	0	
6/3/2022 17:00	25.4	22	40	W (273)	25	0	
6/3/2022 18:00	24.7	21	36	W (276)	23	0	
6/3/2022 19:00	24	19	29	WNW (298)	24	0	
6/3/2022 20:00	22.4	17	30	W (265)	26	0	
6/3/2022 21:00	18.2	17	34	N (354)	58	0	
6/3/2022 22:00	13	20	32	NNE (22)	67	0	
6/3/2022 23:00	12.2	21	31	N (0)	68	0	
6/4/2022 0:00	11.1	18	30	N (8)	69	0	
6/4/2022 1:00	10.1	11	22	NNE (14)	75	0	
6/4/2022 2:00	8.7	6	11	N (4)	76	0	
6/4/2022 3:00	8.4	3	6	NNW (346)	77	0	
6/4/2022 4:00	7.4	3	5	W (265)	84	0	
6/4/2022 5:00	6.9	5	7	SW (234)	88	0	
6/4/2022 6:00	7.1	5	8	SW (215)	87	0	
6/4/2022 7:00	9	4	6	WSW (254)	82	0	
6/4/2022 8:00	11.3	4	10	WNW (292)	76	0	0
6/4/2022 9:00	13.1	6	13	WNW (283)	61	0	
6/4/2022 10:00	14.5	8	16	NW (308)	48	0	
6/4/2022 11:00	16.2	8	21	NNW (335)	45	0	
6/4/2022 12:00	17.3	11	24	W (277)	35	0	
6/4/2022 13:00	18.4	16	32	NW (316)	27	0	
6/4/2022 14:00	18.8	17	31	WNW (294)	32	0	
6/4/2022 15:00	19.7	14	27	SW (235)	33	0	
6/4/2022 16:00	20.5	13	27	WNW (298)	31	0	
6/4/2022 17:00	20.6	16	29	NNE (14)	29	0	
6/4/2022 18:00	20.3	8	16	NW (310)	32	0	
6/4/2022 19:00	19.8	5	10	E (79)	34	0	
6/4/2022 20:00	18.4	13	23	SSE (167)	47	0	
6/4/2022 21:00	16.8	10	14	SSE (164)	50	0	
6/4/2022 22:00	15.9	11	17	SSE (154)	53	0	
6/4/2022 23:00	15.4	13	18	SSE (152)	54	0	
6/5/2022 0:00	14.1	9	14	SSE (166)	63	0	
6/5/2022 1:00	13.3	9	14	SSE (160)	64	0	
6/5/2022 2:00	13.3	10	15	SSE (163)	61	0	
6/5/2022 3:00	13.5	7	10	S (177)	58	0	
6/5/2022 4:00	12.9	4	6	SW (223)	67	0	
6/5/2022 5:00	12	3	4	SSE (154)	72	0	
6/5/2022 6:00	12.1	2	7	S (175)	72	0	
6/5/2022 7:00	13.7	6	9	S (174)	68	0	
6/5/2022 8:00	15.6	8	13	SSE (166)	62	0	0
6/5/2022 9:00	18	11	22	SSW (207)	55	0	
6/5/2022 10:00	17.6	11	16	S (185)	55	0	
6/5/2022 11:00	17.6	7	14	S (187)	56	0	
6/5/2022 12:00	18.1	9	15	SSW (192)	49	0	
6/5/2022 13:00	18.9	10	18	SW (221)	47	0	
6/5/2022 14:00	19.3	6	11	SSW (200)	46	0	
6/5/2022 15:00	18.5	6	12	NNE (33)	59	0.4	
6/5/2022 16:00	17.3	3	8	SE (139)	70	0.2	
6/5/2022 17:00	16.8	9	13	ESE (121)	72	0	
6/5/2022 18:00	16.2	12	16	ESE (115)	75	0	
6/5/2022 19:00	15.9	13	17	ESE (102)	72	0	
6/5/2022 20:00	15.4	12	16	ESE (104)	72	0	
6/5/2022 21:00	14.9	12	16	E (86)	72	0	
6/5/2022 22:00	14.8	15	19	ENE (78)	69	0	
6/5/2022 23:00	14.4	12	18	ENE (66)	71	0.2	
6/6/2022 0:00	13.9	15	21	E (95)	73	0	
6/6/2022 1:00	14.7	18	24	ESE (110)	71	0	
6/6/2022 2:00	15.7	22	28	SE (124)	62	0	
6/6/2022 3:00	16	23	30	ESE (115)	61	0	
6/6/2022 4:00	15.6	25	31	SE (132)	64	0	
6/6/2022 5:00	15	26	32	SE (130)	65	0	
6/6/2022 6:00	15.1	25	32	SE (124)	65	0	
6/6/2022 7:00	16	25	34	SE (125)	63	0	
6/6/2022 8:00	17.7	22	32	SE (136)	61	0	0.8
6/6/2022 9:00	19.6	23	32	SSE (153)	58	0	
6/6/2022 10:00	21.3	19	29	SSE (158)	58	0	
6/6/2022 11:00	22.5	15	27	SSE (165)	56	0	
6/6/2022 12:00	23.6	16	28	SSE (167)	55	0	
6/6/2022 13:00	25.2	16	27	SW (226)	53	0	
6/6/2022 14:00	25.1	20	32	SSW (202)	51	0	
6/6/2022 15:00	24.3	20	32	SSE (166)	55	0	
6/6/2022 16:00	24.5	15	25	SSE (168)	55	0	
6/6/2022 17:00	24	10	20	S (171)	64	0	
6/6/2022 18:00	23	8	17	SSE (164)	71	0	
6/6/2022 19:00	19.7	19	41	SSE (150)	100	0	
6/6/2022 20:00	19.2	15	22	SSE (148)	100	0.4	
6/6/2022 21:00	18.9	17	26	S (171)	100	0.2	
6/6/2022 22:00	18.6	15	26	SSE (164)	100	0	
6/6/2022 23:00	18.4	15	27	S (172)	100	0	
6/7/2022 0:00	18.4	13	25	S (180)	100	0.4	
6/7/2022 1:00	18.4	15	23	S (170)	100	2.4	
6/7/2022 2:00	18.3	17	27	S (177)	100	3.8	
6/7/2022 3:00	18.2	16	29	S (186)	100	4	
6/7/2022 4:00	17.9	11	19	SE (146)	100	4.4	
6/7/2022 5:00	17.7	12	17	S (171)	100	1.6	
6/7/2022 6:00	17.8	13	19	SSE (154)	100	2.4	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/7/2022 7:00	17.6	10	17	SSW (201)	100	3.8	
6/7/2022 8:00	17.5	13	33	NW (317)	100	0.6	24
6/7/2022 9:00	13.2	17	29	NNW (343)	100	0.2	
6/7/2022 10:00	12.4	18	30	NW (323)	100	0	
6/7/2022 11:00	12.7	18	35	N (3)	100	0.4	
6/7/2022 12:00	13.2	20	34	NW (325)	100	0	
6/7/2022 13:00	14	19	30	NNW (344)	100	0	
6/7/2022 14:00	15	19	28	NW (304)	97	0	
6/7/2022 15:00	16.3	18	28	WNW (285)	90	0	
6/7/2022 16:00	17.3	16	25	NW (324)	79	0	
6/7/2022 17:00	18	16	25	NNW (335)	78	0	
6/7/2022 18:00	17.9	13	22	NNW (348)	74	0	
6/7/2022 19:00	17.1	9	15	N (7)	78	0	
6/7/2022 20:00	15.4	9	17	NNE (18)	84	0	
6/7/2022 21:00	13.6	4	9	NE (39)	87	0	
6/7/2022 22:00	13	5	9	N (2)	89	0	
6/7/2022 23:00	12.6	0	3	ENE (72)	88	0	
6/8/2022 0:00	12.1	1	2	ESE (120)	91	0	
6/8/2022 1:00	11.5	1	4	E (100)	100	0	
6/8/2022 2:00	10.6	3	5	SE (126)	100	0	
6/8/2022 3:00	9.9	5	9	W (278)	100	0	
6/8/2022 4:00	9.9	3	7	NNE (19)	100	0	
6/8/2022 5:00	10	3	6	SW (225)	100	0	
6/8/2022 6:00	10.1	3	5	SSE (168)	100	0	
6/8/2022 7:00	12.9	4	8	WSW (248)	100	0	
6/8/2022 8:00	15	3	6	SE (136)	95	0	0.6
6/8/2022 9:00	17.4	2	6	NE (55)	74	0	
6/8/2022 10:00	18.3	4	12	ENE (57)	67	0	
6/8/2022 11:00	19.3	5	18	E (91)	60	0	
6/8/2022 12:00	19.7	8	18	SE (126)	62	0	
6/8/2022 13:00	20.2	10	21	SE (142)	56	0	
6/8/2022 14:00	20.4	7	18	ENE (62)	54	0	
6/8/2022 15:00	20	8	20	SSE (166)	63	0	
6/8/2022 16:00	19.3	11	23	SSE (152)	63	0	
6/8/2022 17:00	18.1	7	14	NNE (29)	75	0	
6/8/2022 18:00	16.7	11	16	E (81)	78	0	
6/8/2022 19:00	16	8	15	NNE (26)	86	0.4	
6/8/2022 20:00	15.2	7	12	NW (307)	100	1.2	
6/8/2022 21:00	14.2	6	11	NNE (26)	100	2.4	
6/8/2022 22:00	13.9	12	24	ENE (61)	100	1.8	
6/8/2022 23:00	13.6	9	17	NW (320)	100	0.4	
6/9/2022 0:00	13.1	9	18	NNW (335)	100	3.2	
6/9/2022 1:00	12.9	11	20	NW (316)	100	3.2	
6/9/2022 2:00	12.6	10	16	NNW (340)	100	2.6	
6/9/2022 3:00	12.4	14	24	NNW (342)	100	0.6	
6/9/2022 4:00	12.2	13	23	NNW (341)	100	0	
6/9/2022 5:00	11.9	15	23	NW (311)	100	0	
6/9/2022 6:00	11.6	13	20	WNW (298)	100	0	
6/9/2022 7:00	11.8	14	22	NW (312)	100	0	
6/9/2022 8:00	12.7	15	21	NW (324)	100	0	15.8
6/9/2022 9:00	14.6	18	28	NW (312)	100	0	
6/9/2022 10:00	15.5	17	27	WNW (294)	90	0	
6/9/2022 11:00	16.8	20	32	W (281)	77	0.2	
6/9/2022 12:00	17.8	25	37	NW (326)	73	0	
6/9/2022 13:00	18.6	24	36	NW (309)	68	0	
6/9/2022 14:00	19.6	21	33	W (261)	63	0	
6/9/2022 15:00	20.6	18	30	WNW (294)	61	0	
6/9/2022 16:00	20.9	17	28	W (268)	57	0	
6/9/2022 17:00	21.1	17	27	W (264)	55	0	
6/9/2022 18:00	18.7	24	48	NW (313)	79	0	
6/9/2022 19:00	13.6	19	43	NW (313)	93	0.6	
6/9/2022 20:00	14	6	15	NNW (327)	92	0	
6/9/2022 21:00	13.2	2	5	SW (229)	100	0	
6/9/2022 22:00	12.7	3	5	SW (226)	100	0	
6/9/2022 23:00	12.3	3	6	SW (230)	100	0	
6/10/2022 0:00	11.8	4	7	WSW (240)	100	0	
6/10/2022 1:00	11.4	5	7	NW (310)	100	0.2	
6/10/2022 2:00	11.5	4	6	WSW (240)	100	0	
6/10/2022 3:00	11	6	8	SW (226)	100	0	
6/10/2022 4:00	10.6	6	8	SW (229)	100	0	
6/10/2022 5:00	10.4	7	8	WSW (237)	100	0	
6/10/2022 6:00	10.6	7	11	SW (228)	100	0	
6/10/2022 7:00	12.2	5	8	WNW (292)	100	0	
6/10/2022 8:00	14.2	7	12	WNW (303)	96	0	1
6/10/2022 9:00	15.8	6	12	NNW (329)	86	0	
6/10/2022 10:00	17.4	7	16	NNE (29)	69	0	
6/10/2022 11:00	18.6	7	16	WNW (286)	59	0.2	
6/10/2022 12:00	19.6	7	17	WSW (254)	54	0	
6/10/2022 13:00	20.2	8	17	NW (320)	48	0	
6/10/2022 14:00	21.1	5	17	W (271)	48	0	
6/10/2022 15:00	22.1	6	19	NW (304)	49	0	
6/10/2022 16:00	22.5	7	19	S (188)	48	0	
6/10/2022 17:00	22.1	6	13	SW (236)	51	0	
6/10/2022 18:00	17.3	19	46	SSE (152)	73	0.4	
6/10/2022 19:00	16.8	14	23	WNW (286)	80	0	
6/10/2022 20:00	15.8	11	33	NW (315)	85	1.8	
6/10/2022 21:00	14.4	10	23	S (175)	90	3.8	
6/10/2022 22:00	14.4	11	20	SSE (162)	90	0	
6/10/2022 23:00	14.1	14	20	SE (142)	100	0.2	
6/11/2022 0:00	14.1	12	19	ENE (75)	100	0	
6/11/2022 1:00	13.2	7	11	ESE (118)	100	0	
6/11/2022 2:00	12.8	10	16	SE (128)	100	0	
6/11/2022 3:00	13.3	10	20	SSE (154)	100	0.4	
6/11/2022 4:00	14.3	15	24	SSE (162)	99	0	
6/11/2022 5:00	14.4	8	15	SW (216)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/11/2022 6:00	14.7	6	12	SW (214)	97	0	
6/11/2022 7:00	16	7	11	SW (228)	91	0	
6/11/2022 8:00	17.8	10	18	SSW (210)	78	0	6.8
6/11/2022 9:00	19.1	10	17	WSW (253)	74	0	
6/11/2022 10:00	20.1	9	16	W (276)	74	0	
6/11/2022 11:00	21.3	8	15	NW (314)	60	0	
6/11/2022 12:00	22.6	8	17	S (184)	59	0	
6/11/2022 13:00	23.4	11	23	SSW (208)	54	0	
6/11/2022 14:00	24.1	14	26	SW (234)	51	0	
6/11/2022 15:00	24.3	18	28	SSW (202)	47	0	
6/11/2022 16:00	24.4	18	29	S (186)	52	0	
6/11/2022 17:00	23.4	16	28	SSW (201)	56	0	
6/11/2022 18:00	22.8	14	22	SW (216)	53	0	
6/11/2022 19:00	22.1	10	17	SSW (208)	57	0	
6/11/2022 20:00	21.3	10	18	SSE (160)	59	0	
6/11/2022 21:00	20.3	9	15	S (171)	67	0	
6/11/2022 22:00	19.3	12	17	SSE (158)	72	0	
6/11/2022 23:00	18.5	12	18	SSE (155)	75	0	
6/12/2022 0:00	18.4	14	20	SSE (158)	75	0	
6/12/2022 1:00	18.2	15	23	S (174)	78	0	
6/12/2022 2:00	18	12	19	SSE (158)	79	0	
6/12/2022 3:00	18.7	12	21	S (170)	77	0	
6/12/2022 4:00	18.6	13	21	S (177)	75	0	
6/12/2022 5:00	17.9	12	21	WSW (241)	100	0.8	
6/12/2022 6:00	16.7	8	16	S (182)	100	4.8	
6/12/2022 7:00	17.2	8	13	SW (218)	100	0	
6/12/2022 8:00	18.8	16	27	SW (236)	100	0	5.6
6/12/2022 9:00	19.9	16	25	WSW (256)	100	0	
6/12/2022 10:00	20.6	14	24	W (272)	92	0	
6/12/2022 11:00	21.2	17	26	WNW (289)	75	0	
6/12/2022 12:00	21.8	15	24	W (260)	72	0	
6/12/2022 13:00	22.1	14	23	NNW (340)	72	0	
6/12/2022 14:00	21.4	16	25	N (10)	79	0	
6/12/2022 15:00	20.3	16	27	NNW (346)	80	0	
6/12/2022 16:00	17.8	16	26	NNW (347)	88	0	
6/12/2022 17:00	16.5	15	24	N (1)	91	0	
6/12/2022 18:00	17.7	15	23	N (4)	80	0	
6/12/2022 19:00	18.1	11	19	NNE (16)	75	0	
6/12/2022 20:00	17	9	14	NNE (21)	78	0	
6/12/2022 21:00	15.7	6	10	N (352)	86	0	
6/12/2022 22:00	14.7	5	9	NNE (21)	100	0	
6/12/2022 23:00	13.6	4	8	NNE (29)	100	0	
6/13/2022 0:00	13.3	2	5	NNE (29)	100	0	
6/13/2022 1:00	12.8	5	7	NNE (31)	100	0	
6/13/2022 2:00	12.4	6	7	N (3)	100	0	
6/13/2022 3:00	12.1	2	6	NW (312)	100	0	
6/13/2022 4:00	11.5	5	9	NNE (31)	100	0	
6/13/2022 5:00	11.1	4	9	ENE (62)	100	0	
6/13/2022 6:00	11.3	3	7	NE (49)	100	0	
6/13/2022 7:00	13.3	6	12	ENE (67)	100	0	
6/13/2022 8:00	15.1	10	15	ENE (69)	89	0	0
6/13/2022 9:00	17	9	13	ESE (117)	85	0	
6/13/2022 10:00	18.8	7	14	SE (130)	66	0	
6/13/2022 11:00	20.4	5	11	ENE (71)	57	0	
6/13/2022 12:00	21.9	7	16	ENE (59)	53	0	
6/13/2022 13:00	23.1	6	14	SE (146)	49	0	
6/13/2022 14:00	24	6	14	W (277)	55	0	
6/13/2022 15:00	24.4	6	15	ENE (70)	53	0	
6/13/2022 16:00	24.6	4	10	E (96)	55	0	
6/13/2022 17:00	24.5	7	15	N (0)	61	0	
6/13/2022 18:00	23.4	9	15	N (4)	63	0	
6/13/2022 19:00	22.5	7	12	NE (49)	64	0	
6/13/2022 20:00	21.7	13	23	ESE (110)	68	0	
6/13/2022 21:00	20.9	8	13	E (100)	72	0	
6/13/2022 22:00	20.8	17	27	E (82)	74	0	
6/13/2022 23:00	20.2	15	23	ESE (114)	70	0	
6/14/2022 0:00	19.1	13	21	SE (136)	70	0	
6/14/2022 1:00	18.3	8	15	E (92)	79	0	
6/14/2022 2:00	17.9	10	19	ESE (104)	81	0	
6/14/2022 3:00	17.8	8	17	SE (124)	76	0.4	
6/14/2022 4:00	17.4	6	14	SE (132)	80	0	
6/14/2022 5:00	17.1	4	10	NW (320)	88	0	
6/14/2022 6:00	16.2	5	8	NE (46)	92	0	
6/14/2022 7:00	18.1	7	12	ENE (73)	81	0	
6/14/2022 8:00	19.9	16	24	E (99)	64	0	0.4
6/14/2022 9:00	22.1	18	25	E (92)	55	0	
6/14/2022 10:00	23.8	14	21	SE (129)	49	0	
6/14/2022 11:00	24.8	14	22	SE (136)	46	0	
6/14/2022 12:00	25.4	14	21	SE (134)	46	0	
6/14/2022 13:00	26.5	13	25	SSW (193)	44	0	
6/14/2022 14:00	27	13	21	SSE (166)	46	0	
6/14/2022 15:00	26.9	13	21	SE (140)	48	0	
6/14/2022 16:00	27.2	17	25	SE (134)	48	0	
6/14/2022 17:00	27.1	20	29	SSE (147)	45	0	
6/14/2022 18:00	26.5	19	26	SSE (148)	46	0	
6/14/2022 19:00	25.2	20	26	SE (140)	47	0	
6/14/2022 20:00	23.6	16	23	SE (140)	49	0	
6/14/2022 21:00	21.6	14	20	SE (130)	57	0	
6/14/2022 22:00	20.8	17	22	SE (139)	62	0	
6/14/2022 23:00	20.3	18	22	SE (133)	64	0	
6/15/2022 0:00	20.1	18	24	SE (125)	65	0	
6/15/2022 1:00	20	18	22	ESE (116)	66	0	
6/15/2022 2:00	20.3	19	24	ESE (106)	66	0	
6/15/2022 3:00	20.2	18	26	ESE (114)	65	0	
6/15/2022 4:00	20.1	23	29	ESE (120)	65	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/15/2022 5:00	19.6	23	29	SE (128)	68	0	
6/15/2022 6:00	19.6	20	25	SSE (147)	71	0	
6/15/2022 7:00	20.6	18	24	SE (131)	76	0	
6/15/2022 8:00	22.3	13	22	SSE (154)	79	0	0
6/15/2022 9:00	24.4	10	17	SSW (206)	80	0	
6/15/2022 10:00	27	10	16	S (183)	77	0	
6/15/2022 11:00	29.3	8	16	SW (215)	74	0	
6/15/2022 12:00	31.2	10	18	SSW (198)	66	0	
6/15/2022 13:00	32.4	14	25	SSW (201)	62	0	
6/15/2022 14:00	33.5	17	30	S (178)	58	0	
6/15/2022 15:00	34.4	19	30	WSW (242)	51	0	
6/15/2022 16:00	35.1	21	34	SSE (161)	50	0	
6/15/2022 17:00	33.4	20	36	SW (225)	51	0	
6/15/2022 18:00	33.1	28	40	SW (233)	51	0	
6/15/2022 19:00	32.3	22	36	SSW (211)	57	0	
6/15/2022 20:00	31.3	15	28	SW (231)	62	0	
6/15/2022 21:00	29.9	13	22	S (182)	63	0	
6/15/2022 22:00	29.1	11	18	SSW (205)	64	0	
6/15/2022 23:00	28.1	10	19	SW (235)	66	0	
6/16/2022 0:00	27.6	12	20	SSW (192)	66	0	
6/16/2022 1:00	26.8	12	18	SSW (209)	68	0	
6/16/2022 2:00	26	12	19	SSW (192)	71	0	
6/16/2022 3:00	25.7	11	20	S (190)	72	0	
6/16/2022 4:00	25.5	15	25	SSW (204)	73	0	
6/16/2022 5:00	24.6	13	23	SSW (211)	78	0	
6/16/2022 6:00	24.3	11	18	SSW (200)	80	0	
6/16/2022 7:00	24.8	12	23	SSW (192)	81	0	
6/16/2022 8:00	26.2	20	35	WSW (246)	79	0	0
6/16/2022 9:00	25.8	19	36	W (260)	86	0.4	
6/16/2022 10:00	25.6	18	26	SW (232)	92	0	
6/16/2022 11:00	27.6	21	33	WSW (237)	81	0	
6/16/2022 12:00	28.6	22	39	W (276)	71	0.2	
6/16/2022 13:00	28.8	25	35	WNW (283)	67	0	
6/16/2022 14:00	29.8	23	34	WNW (299)	60	0	
6/16/2022 15:00	30.9	27	41	WSW (250)	41	0	
6/16/2022 16:00	31.2	24	42	WSW (254)	32	0	
6/16/2022 17:00	31.4	23	37	WSW (241)	31	0	
6/16/2022 18:00	31.3	26	41	SW (235)	29	0	
6/16/2022 19:00	30.8	25	37	WSW (238)	30	0	
6/16/2022 20:00	29	15	30	SW (235)	37	0	
6/16/2022 21:00	26.7	11	21	SSW (204)	39	0	
6/16/2022 22:00	25.5	14	26	SW (234)	42	0	
6/16/2022 23:00	25.5	16	24	W (278)	42	0	
6/17/2022 0:00	25	14	25	NW (310)	46	0	
6/17/2022 1:00	23.5	14	26	WNW (297)	57	0	
6/17/2022 2:00	22.4	11	18	WNW (298)	57	0	
6/17/2022 3:00	21.4	10	22	W (267)	59	0	
6/17/2022 4:00	20.3	11	17	WNW (296)	61	0	
6/17/2022 5:00	20.3	12	20	W (260)	61	0	
6/17/2022 6:00	20	11	19	WNW (290)	62	0	
6/17/2022 7:00	20.6	14	23	WNW (289)	62	0	
6/17/2022 8:00	21.2	22	36	WNW (285)	61	0	0.6
6/17/2022 9:00	21.8	24	37	NW (316)	56	0	
6/17/2022 10:00	22	27	41	NW (308)	50	0	
6/17/2022 11:00	22.5	25	41	WNW (282)	51	0	
6/17/2022 12:00	23.7	27	42	WNW (291)	48	0	
6/17/2022 13:00	24.7	30	46	WNW (294)	44	0	
6/17/2022 14:00	25.5	31	45	WNW (282)	40	0	
6/17/2022 15:00	25.8	34	49	NNW (334)	39	0	
6/17/2022 16:00	25.9	38	52	NW (312)	39	0	
6/17/2022 17:00	25.4	35	52	NNW (342)	44	0	
6/17/2022 18:00	23.1	30	50	NW (315)	47	0	
6/17/2022 19:00	22	35	54	NNW (342)	53	0	
6/17/2022 20:00	17.7	23	41	N (6)	65	0	
6/17/2022 21:00	15.8	25	48	NW (310)	64	0	
6/17/2022 22:00	14.8	33	55	NNW (328)	65	0	
6/17/2022 23:00	14.2	34	59	NNW (328)	67	0	
6/18/2022 0:00	13	28	49	N (4)	70	0	
6/18/2022 1:00	11.7	27	47	N (349)	71	0	
6/18/2022 2:00	11.2	27	48	W (260)	69	0	
6/18/2022 3:00	11.3	23	44	NNW (328)	67	0	
6/18/2022 4:00	10.9	16	30	NW (324)	71	0	
6/18/2022 5:00	11.5	18	33	NNW (333)	71	0	
6/18/2022 6:00	11.6	21	36	NNW (345)	65	0	
6/18/2022 7:00	11.7	24	40	NNE (20)	62	0	
6/18/2022 8:00	12	26	44	NW (324)	60	0	0
6/18/2022 9:00	12.4	24	41	NW (306)	58	0	
6/18/2022 10:00	12.7	23	44	NW (323)	58	0	
6/18/2022 11:00	12.6	30	46	NW (324)	56	0	
6/18/2022 12:00	13	29	46	NW (315)	55	0	
6/18/2022 13:00	13	30	45	NNW (335)	55	0	
6/18/2022 14:00	13.6	25	42	NNW (344)	51	0	
6/18/2022 15:00	13.7	26	41	NW (319)	49	0	
6/18/2022 16:00	14.1	28	42	WNW (302)	46	0	
6/18/2022 17:00	14.6	24	37	WNW (300)	45	0	
6/18/2022 18:00	14.9	21	38	WNW (301)	43	0	
6/18/2022 19:00	15	17	29	NNE (17)	42	0	
6/18/2022 20:00	14.7	13	24	WNW (300)	45	0	
6/18/2022 21:00	13.2	8	13	WNW (296)	52	0	
6/18/2022 22:00	12	4	9	W (277)	57	0	
6/18/2022 23:00	10.8	1	7	WNW (290)	63	0	
6/19/2022 0:00	10.9	4	7	W (267)	67	0	
6/19/2022 1:00	9.8	9	13	NW (319)	72	0	
6/19/2022 2:00	10.8	9	14	WNW (293)	73	0	
6/19/2022 3:00	10.7	8	14	N (355)	76	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/19/2022 4:00	9.9	8	11	NNW (340)	84	0	
6/19/2022 5:00	8.5	6	9	WNW (302)	100	0	
6/19/2022 6:00	9.2	3	7	NW (324)	100	0	
6/19/2022 7:00	11	7	15	N (351)	90	0	
6/19/2022 8:00	13.5	7	13	NNE (14)	81	0	0
6/19/2022 9:00	16	7	13	NNE (25)	61	0	
6/19/2022 10:00	17.2	10	22	NNE (29)	50	0	
6/19/2022 11:00	18.3	14	26	NW (312)	42	0	
6/19/2022 12:00	18.9	15	26	W (274)	37	0	
6/19/2022 13:00	19.3	18	28	NNW (340)	36	0	
6/19/2022 14:00	19.5	19	29	NW (326)	33	0	
6/19/2022 15:00	20.2	16	28	NNW (333)	32	0	
6/19/2022 16:00	20.4	15	24	NNW (333)	31	0	
6/19/2022 17:00	19.6	11	20	N (7)	31	0	
6/19/2022 18:00	19.4	10	16	NNE (17)	32	0	
6/19/2022 19:00	18.7	11	17	ENE (73)	33	0	
6/19/2022 20:00	18.1	4	14	NNE (14)	34	0	
6/19/2022 21:00	17.6	2	5	SE (136)	42	0	
6/19/2022 22:00	17.1	0	2	SSE (152)	47	0	
6/19/2022 23:00	16.6	3	9	S (182)	53	0	
6/20/2022 0:00	16.9	8	13	ESE (117)	50	0	
6/20/2022 1:00	16.7	8	13	SE (124)	51	0	
6/20/2022 2:00	16.5	11	15	ESE (109)	51	0	
6/20/2022 3:00	16.5	13	18	SE (130)	49	0	
6/20/2022 4:00	16.5	11	17	SSE (168)	49	0	
6/20/2022 5:00	16.2	7	15	SW (229)	62	0	
6/20/2022 6:00	15.9	8	15	WSW (257)	69	0	
6/20/2022 7:00	15.6	9	19	SSE (165)	83	0	
6/20/2022 8:00	15.9	11	21	SSW (196)	81	0	0
6/20/2022 9:00	16.7	12	21	SSW (212)	77	0	
6/20/2022 10:00	17.6	11	20	SSW (210)	73	0	
6/20/2022 11:00	18.1	10	21	SW (224)	77	0.2	
6/20/2022 12:00	16.8	11	19	SSW (198)	86	3.2	
6/20/2022 13:00	14.9	14	23	S (177)	100	6	
6/20/2022 14:00	15.3	16	24	S (174)	100	1.2	
6/20/2022 15:00	16.5	18	29	SSE (167)	100	0	
6/20/2022 16:00	17.5	18	26	SSE (150)	82	0	
6/20/2022 17:00	17.7	18	28	SE (137)	82	0	
6/20/2022 18:00	19.1	23	33	SSE (152)	80	0	
6/20/2022 19:00	19.2	22	29	SSE (148)	75	0	
6/20/2022 20:00	18.7	17	24	SSE (157)	79	0	
6/20/2022 21:00	18.5	17	24	S (171)	80	0	
6/20/2022 22:00	18.5	17	24	SSE (166)	80	0	
6/20/2022 23:00	18.9	16	21	SSE (168)	79	0	
6/21/2022 0:00	18.7	14	20	SSE (147)	82	0	
6/21/2022 1:00	18.1	12	16	S (189)	82	0	
6/21/2022 2:00	18.3	12	16	S (177)	79	0	
6/21/2022 3:00	18.6	11	16	S (188)	78	0	
6/21/2022 4:00	19.1	9	16	SSW (199)	77	0	
6/21/2022 5:00	17.9	8	14	SW (226)	84	0	
6/21/2022 6:00	17.9	10	15	SW (217)	82	0	
6/21/2022 7:00	19.5	12	22	SW (235)	80	0	
6/21/2022 8:00	21.8	17	23	SW (236)	74	0	10.6
6/21/2022 9:00	24.1	16	23	WNW (287)	68	0	
6/21/2022 10:00	25.8	15	23	W (267)	63	0	
6/21/2022 11:00	27.5	12	22	SW (219)	60	0	
6/21/2022 12:00	28.8	14	21	SW (224)	54	0	
6/21/2022 13:00	29.8	18	30	SW (220)	53	0	
6/21/2022 14:00	30.8	22	33	SW (229)	51	0	
6/21/2022 15:00	31.4	22	35	SSW (207)	49	0	
6/21/2022 16:00	32	22	33	SW (228)	47	0	
6/21/2022 17:00	32.3	18	32	SSW (211)	47	0	
6/21/2022 18:00	32.2	15	26	SW (223)	50	0	
6/21/2022 19:00	31.2	9	14	SW (225)	58	0	
6/21/2022 20:00	29.9	6	9	SW (218)	60	0	
6/21/2022 21:00	28.8	7	12	S (188)	61	0	
6/21/2022 22:00	28.1	7	13	WSW (238)	65	0	
6/21/2022 23:00	26.6	8	13	WSW (257)	70	0	
6/22/2022 0:00	25.7	9	12	WSW (241)	70	0	
6/22/2022 1:00	25	7	11	SW (220)	72	0	
6/22/2022 2:00	24.8	6	14	WSW (239)	73	0	
6/22/2022 3:00	24.7	12	16	WSW (240)	72	0	
6/22/2022 4:00	24.1	9	13	SW (230)	76	0	
6/22/2022 5:00	23.3	7	11	SW (236)	78	0	
6/22/2022 6:00	23.3	6	11	SW (236)	80	0	
6/22/2022 7:00	24.7	9	15	WNW (290)	76	0	
6/22/2022 8:00	26.6	13	23	NW (309)	74	0	0
6/22/2022 9:00	26.8	22	35	WNW (298)	65	0	
6/22/2022 10:00	26.8	24	33	NW (326)	59	0	
6/22/2022 11:00	26.9	24	36	WNW (292)	52	0	
6/22/2022 12:00	26.8	25	33	NW (324)	49	0	
6/22/2022 13:00	26.7	21	33	N (349)	51	0	
6/22/2022 14:00	26.5	16	26	N (11)	53	0	
6/22/2022 15:00	26.1	17	28	WNW (292)	52	0	
6/22/2022 16:00	26.4	13	24	N (354)	48	0	
6/22/2022 17:00	26.5	14	23	NNW (344)	47	0	
6/22/2022 18:00	26.5	13	23	N (11)	47	0	
6/22/2022 19:00	24.2	13	23	N (8)	58	0	
6/22/2022 20:00	21.3	13	23	NW (316)	64	0	
6/22/2022 21:00	19.5	13	22	NW (313)	68	0	
6/22/2022 22:00	19.1	10	18	NW (312)	69	0	
6/22/2022 23:00	18.2	7	13	NNW (344)	74	0	
6/23/2022 0:00	17.2	9	19	NNW (339)	75	0	
6/23/2022 1:00	16.1	14	27	NNW (330)	76	0	
6/23/2022 2:00	14.4	13	27	NW (306)	77	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/23/2022 3:00	13.5	15	24	NW (314)	74	0	
6/23/2022 4:00	13.1	11	19	NW (320)	78	0	
6/23/2022 5:00	13.6	15	26	NNW (334)	80	0	
6/23/2022 6:00	14.3	16	29	NNW (345)	77	0	
6/23/2022 7:00	15	19	34	NNW (338)	73	0	
6/23/2022 8:00	15.2	20	32	NNW (342)	72	0	0
6/23/2022 9:00	16.1	16	26	NW (325)	72	0	
6/23/2022 10:00	17.4	18	25	NNW (339)	71	0	
6/23/2022 11:00	18.1	17	24	NNW (328)	69	0	
6/23/2022 12:00	19.5	18	28	NW (307)	66	0	
6/23/2022 13:00	20.7	19	32	NNE (14)	61	0	
6/23/2022 14:00	21.3	20	33	NW (318)	56	0	
6/23/2022 15:00	22	18	32	NW (326)	49	0	
6/23/2022 16:00	22	20	31	NW (315)	45	0	
6/23/2022 17:00	22	19	33	NW (310)	42	0	
6/23/2022 18:00	21.6	17	29	NW (310)	40	0	
6/23/2022 19:00	21.2	14	24	NNW (334)	42	0	
6/23/2022 20:00	20.1	7	16	NNW (333)	48	0	
6/23/2022 21:00	17.6	5	8	W (271)	61	0	
6/23/2022 22:00	15.4	3	7	NNW (333)	70	0	
6/23/2022 23:00	15	2	4	N (0)	71	0	
6/24/2022 0:00	14.3	2	3	ESE (109)	74	0	
6/24/2022 1:00	14	2	5	ESE (110)	76	0	
6/24/2022 2:00	13.4	4	5	ESE (106)	76	0	
6/24/2022 3:00	13.5	4	6	SE (139)	73	0	
6/24/2022 4:00	12.5	4	9	WSW (238)	79	0	
6/24/2022 5:00	12.2	5	7	S (180)	85	0	
6/24/2022 6:00	13.7	2	5	SW (224)	78	0	
6/24/2022 7:00	16.3	2	6	S (187)	66	0	
6/24/2022 8:00	18.8	4	8	WSW (246)	62	0	0
6/24/2022 9:00	21	7	11	SSE (153)	50	0	
6/24/2022 10:00	23.1	8	16	W (272)	46	0	
6/24/2022 11:00	24.5	10	19	S (188)	45	0	
6/24/2022 12:00	26	10	23	WNW (288)	45	0	
6/24/2022 13:00	27.1	10	24	SW (231)	42	0	
6/24/2022 14:00	28.2	10	19	WNW (296)	40	0	
6/24/2022 15:00	28.7	9	18	W (281)	39	0	
6/24/2022 16:00	29.3	10	23	NW (324)	38	0	
6/24/2022 17:00	29.2	11	18	NW (316)	38	0	
6/24/2022 18:00	29.3	6	13	WNW (285)	36	0	
6/24/2022 19:00	29.5	4	10	NW (306)	34	0	
6/24/2022 20:00	28.7	3	6	E (91)	41	0	
6/24/2022 21:00	24.8	9	18	SSE (167)	59	0	
6/24/2022 22:00	23	11	16	SSE (154)	59	0	
6/24/2022 23:00	21.5	11	15	SSE (162)	60	0	
6/25/2022 0:00	20.6	9	14	SSE (158)	61	0	
6/25/2022 1:00	20.2	7	12	SSE (157)	61	0	
6/25/2022 2:00	19.8	7	12	SSE (168)	63	0	
6/25/2022 3:00	19.4	8	12	SSE (153)	64	0	
6/25/2022 4:00	19.1	8	13	S (172)	67	0	
6/25/2022 5:00	18.9	9	12	SSE (165)	64	0	
6/25/2022 6:00	19.2	4	7	E (90)	66	0	
6/25/2022 7:00	20.8	8	15	SSE (160)	62	0	
6/25/2022 8:00	22.9	10	13	SSW (211)	59	0	0
6/25/2022 9:00	25.1	10	16	S (183)	51	0	
6/25/2022 10:00	26.6	13	19	SSE (153)	46	0	
6/25/2022 11:00	27.7	12	20	SSE (154)	47	0	
6/25/2022 12:00	28.6	12	21	ESE (122)	43	0	
6/25/2022 13:00	29.4	15	26	SSE (160)	39	0	
6/25/2022 14:00	29.8	20	31	SE (128)	35	0	
6/25/2022 15:00	30	22	30	SSE (163)	28	0	
6/25/2022 16:00	29.8	21	29	ESE (122)	29	0	
6/25/2022 17:00	29.6	20	31	SSE (162)	28	0	
6/25/2022 18:00	29.1	19	27	SSE (161)	33	0	
6/25/2022 19:00	28.2	18	27	SSE (159)	36	0	
6/25/2022 20:00	26.4	14	21	SSE (153)	45	0	
6/25/2022 21:00	23.8	12	19	SE (138)	50	0	
6/25/2022 22:00	21.9	15	20	SE (129)	53	0	
6/25/2022 23:00	21.1	17	21	SE (129)	52	0	
6/26/2022 0:00	20.3	17	22	SE (132)	57	0	
6/26/2022 1:00	19.8	16	20	SE (140)	61	0	
6/26/2022 2:00	20.5	16	19	SE (125)	59	0	
6/26/2022 3:00	21	11	37	SSW (202)	58	0	
6/26/2022 4:00	21.4	9	15	SSE (148)	64	0	
6/26/2022 5:00	21.6	10	14	SE (134)	66	0	
6/26/2022 6:00	21.2	12	18	SSE (160)	68	0	
6/26/2022 7:00	21.6	12	20	SSW (192)	67	0	
6/26/2022 8:00	22.7	12	21	SW (220)	69	0	0
6/26/2022 9:00	23.4	12	19	SW (234)	70	0	
6/26/2022 10:00	24.5	13	20	WSW (248)	70	0	
6/26/2022 11:00	25.7	11	19	S (181)	66	0	
6/26/2022 12:00	26.5	13	22	WSW (246)	64	0	
6/26/2022 13:00	27.3	15	25	SSW (205)	63	0	
6/26/2022 14:00	27.8	18	29	SW (227)	63	0	
6/26/2022 15:00	28.2	19	28	SW (231)	61	0	
6/26/2022 16:00	28.7	18	29	WSW (239)	58	0	
6/26/2022 17:00	28.5	20	32	W (263)	59	0	
6/26/2022 18:00	28.3	18	28	W (276)	59	0	
6/26/2022 19:00	27.7	15	29	W (278)	51	0	
6/26/2022 20:00	26.3	17	34	W (278)	53	0	
6/26/2022 21:00	24.1	15	25	WNW (303)	43	0	
6/26/2022 22:00	22.5	16	28	NW (309)	45	0	
6/26/2022 23:00	20.9	17	28	NW (313)	64	0	
6/27/2022 0:00	18.3	10	14	WNW (289)	74	0	
6/27/2022 1:00	16.8	7	11	W (277)	79	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/27/2022 2:00	16.3	10	19	W (278)	81	0	
6/27/2022 3:00	16.5	10	16	NNW (341)	75	0	
6/27/2022 4:00	15.8	9	13	WNW (291)	75	0	
6/27/2022 5:00	14.5	7	16	WNW (287)	76	0	
6/27/2022 6:00	15.6	13	24	WNW (292)	72	0	
6/27/2022 7:00	16.3	18	30	WNW (295)	63	0	
6/27/2022 8:00	16.8	23	35	WNW (293)	58	0	0
6/27/2022 9:00	17.1	23	36	WNW (296)	55	0	
6/27/2022 10:00	17.6	22	32	WNW (283)	53	0	
6/27/2022 11:00	18.5	23	38	NW (308)	48	0	
6/27/2022 12:00	18.9	24	37	NW (314)	48	0	
6/27/2022 13:00	19.4	26	41	NNW (329)	46	0	
6/27/2022 14:00	19	23	40	NW (312)	54	0	
6/27/2022 15:00	18.3	17	31	NW (321)	54	0	
6/27/2022 16:00	18.3	15	27	NNW (331)	55	0	
6/27/2022 17:00	18	13	22	NW (315)	56	0	
6/27/2022 18:00	17.9	10	19	N (0)	57	0	
6/27/2022 19:00	17.3	14	26	N (0)	60	0	
6/27/2022 20:00	16.4	14	27	NNW (336)	61	0	
6/27/2022 21:00	14.8	9	18	NNE (15)	69	0	
6/27/2022 22:00	13.3	4	10	NNW (345)	74	0	
6/27/2022 23:00	12.8	3	5	N (2)	80	0	
6/28/2022 0:00	11.9	1	3	SW (216)	84	0	
6/28/2022 1:00	11.5	2	4	S (187)	92	0	
6/28/2022 2:00	10.6	4	6	SW (231)	100	0	
6/28/2022 3:00	10.2	5	7	SSW (207)	100	0	
6/28/2022 4:00	10.3	3	8	SW (228)	100	0	
6/28/2022 5:00	9.5	5	7	SW (233)	100	0	
6/28/2022 6:00	9.9	4	7	WSW (251)	100	0	
6/28/2022 7:00	12	7	14	SSW (210)	99	0	
6/28/2022 8:00	14.7	11	17	SSW (210)	78	0	0
6/28/2022 9:00	16.6	10	19	S (189)	66	0	
6/28/2022 10:00	18.1	9	18	WSW (253)	55	0	
6/28/2022 11:00	19.2	9	19	WSW (239)	52	0	
6/28/2022 12:00	20.7	8	17	SSW (201)	44	0	
6/28/2022 13:00	22	7	18	W (261)	44	0	
6/28/2022 14:00	23	6	14	NE (38)	43	0	
6/28/2022 15:00	24.2	9	20	W (270)	39	0	
6/28/2022 16:00	24.9	10	22	SSW (206)	38	0	
6/28/2022 17:00	25	13	23	SSW (212)	36	0	
6/28/2022 18:00	24.7	14	25	S (178)	35	0	
6/28/2022 19:00	24.1	12	21	SSE (163)	39	0	
6/28/2022 20:00	22.4	15	23	S (172)	52	0	
6/28/2022 21:00	20.2	14	23	SSE (167)	56	0	
6/28/2022 22:00	18.4	14	18	SE (144)	59	0	
6/28/2022 23:00	17.3	14	21	SSE (161)	62	0	
6/29/2022 0:00	16.2	13	17	SSE (164)	65	0	
6/29/2022 1:00	15.4	13	19	SSE (159)	68	0	
6/29/2022 2:00	15.4	14	21	S (176)	69	0	
6/29/2022 3:00	16	9	18	NW (326)	71	0	
6/29/2022 4:00	16.2	5	13	E (95)	73	0	
6/29/2022 5:00	15.6	5	9	ENE (61)	74	0	
6/29/2022 6:00	15.8	3	8	N (6)	79	0	
6/29/2022 7:00	15.3	10	21	NNE (23)	100	1.2	
6/29/2022 8:00	14.9	10	17	ESE (109)	100	2.2	3.4
6/29/2022 9:00	15.6	11	15	E (95)	100	0	
6/29/2022 10:00	17.8	5	10	ESE (110)	100	0	
6/29/2022 11:00	19.6	4	11	WNW (296)	80	0	
6/29/2022 12:00	20.8	8	20	NW (311)	75	0	
6/29/2022 13:00	21.2	13	24	NW (304)	67	0	
6/29/2022 14:00	21.5	11	24	WNW (291)	66	0	
6/29/2022 15:00	22.7	8	18	NNW (334)	60	0	
6/29/2022 16:00	23.2	9	18	NNW (336)	59	0	
6/29/2022 17:00	23.6	9	19	NNE (19)	58	0	
6/29/2022 18:00	23	10	18	NNE (21)	62	0	
6/29/2022 19:00	21.9	14	21	N (3)	63	0	
6/29/2022 20:00	20.2	10	19	ENE (58)	72	0	
6/29/2022 21:00	18.3	8	12	NE (52)	78	0	
6/29/2022 22:00	17	7	11	ENE (65)	83	0	
6/29/2022 23:00	16.4	7	9	ESE (104)	89	0	
6/30/2022 0:00	16.4	11	16	ESE (115)	88	0	
6/30/2022 1:00	16.5	13	19	SE (124)	86	0	
6/30/2022 2:00	16.5	12	17	ESE (114)	84	0	
6/30/2022 3:00	16.5	15	19	ESE (119)	94	0	
6/30/2022 4:00	16.3	16	20	ESE (117)	100	0	
6/30/2022 5:00	16.6	20	25	SE (124)	100	0	
6/30/2022 6:00	17	21	26	SE (139)	96	0	
6/30/2022 7:00	18.5	12	17	SE (128)	94	0	
6/30/2022 8:00	21	11	17	SE (146)	80	0	0
6/30/2022 9:00	23.5	11	21	SSW (205)	75	0	
6/30/2022 10:00	26	14	24	SW (229)	65	0	
6/30/2022 11:00	28	15	27	SSW (205)	58	0	
6/30/2022 12:00	29.4	22	38	WSW (239)	51	0	
6/30/2022 13:00	30	25	38	SW (234)	46	0	
6/30/2022 14:00	30	26	38	SSW (199)	39	0	
6/30/2022 15:00	30.5	27	41	SSW (204)	34	0	
6/30/2022 16:00	30.8	24	36	SW (231)	32	0	
6/30/2022 17:00	30.4	26	38	SSW (202)	32	0	
6/30/2022 18:00	29.5	18	29	SSW (212)	32	0	
6/30/2022 19:00	29.1	16	27	S (182)	34	0	
6/30/2022 20:00	27.8	14	22	S (172)	39	0	
6/30/2022 21:00	25.5	14	20	SSE (161)	47	0	
6/30/2022 22:00	23.9	14	19	SSE (156)	53	0	
6/30/2022 23:00	22.7	15	22	SSE (167)	58	0	

ATTACHMENT C

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

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Site Code: 4
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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
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Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topography Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2

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November 28, 2022

Ms. Angela McLachlan
Environmental Compliance Manager
Waste Management of Canada Corporation
Twin Creeks Environmental Centre
5768 Nauvoo Road (Watford)
Warwick Township, County of Lambton N0M 2S0
E: amclachl@wm.com

Re: Third Quarter 2022 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2202861-4000

Dear Ms. McLachlan,

Waste Management of Canada Corporation (WM) has retained RWDI to conduct the Third Quarter acoustic survey for 2022 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 19, 2020. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and,
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

STATEMENT OF LIMITATIONS

This report entitled Third Quarter 2022 Noise Monitoring Report: Twin Creeks Environmental Centre – Watford, ON: RWDI Project #2202861-4000 was prepared by RWDI Air Incorporated ("RWDI") for Waste Management of Canada Corporation ("Client"). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein ("Project"). The conclusions and recommendations contained in this report are based on the information available to RWDI when this report was prepared.

The conclusions and recommendations contained in this report have also been made for the specific purpose(s) set out herein. Should the Client or any other third party utilize the report and/or implement the conclusions and recommendations contained therein for any other purpose or project without the involvement of RWDI, the Client or such third party assumes any and all risk of any and all consequences arising from such use and RWDI accepts no responsibility for any liability, loss, or damage of any kind suffered by Client or any other third party arising therefrom.

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Finally, it is imperative that the Client and/or any party relying on the conclusions and recommendations in this report carefully review the stated assumptions contained herein and to understand the different factors which may impact the conclusions and recommendations provided.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. Landfilling during the measurement campaign occurred at the landfilling stage described in the NMP as "Phase 8 north centre area @ 250 m". The associated sound level limits are shown in **Table 3**.

Table 3: Phase 8 @ 250 Metres Sound Level Limits

Monitor	Limit (dBA)
M1	61
M2	56
M3	55
M4	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2022 Third Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ value and the average of the $L_{EQ,\ 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ,\ 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ, 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Third Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ, 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	71	65	ORNAMENT Modelling	70
M2	64	N/A	Conservatively Assumed to be negligible	64
M3	57	N/A	Conservatively Assumed to be negligible	57
M4	58	N/A	Conservatively Assumed to be negligible	58

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour in which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ,\ 1\text{-}hr}$ (dBA) [2]	Average Measured $L_{EQ,\ 1\text{-}hr}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	419	70	62	61
M2	744	Yes	419	64	55	56
M3	744	Yes	418	57	49	55
M4	744	Yes	419	58	50	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ,\ 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	63	10	69	61	135	284	7.4%	21.5%
M2	18	5	3	8	135	284	3.7%	2.8%
M3	2	0	4	2	134	284	0.0%	0.7%
M4	2	0	27	7	135	284	0.0%	2.5%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ,\ 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit in 73 instances during operational hours, 10 of which were greater than 3 dB above the limit. During non-operational hours, 130 hourly intervals in excess of the limit were recorded, 61 of which were greater than 3 dB above the limit.

At monitor M2, measured hourly sound levels exceeded the hourly limit in 23 instances during operational hours, 5 of which were greater than 3 dB above the limit. During non-operational hours, 11 hourly intervals in excess of the limit were recorded, 8 of which were greater than 3 dB above the limit.

At monitor M3, measured hourly sound levels exceeded the hourly limit in 2 instances during operational hours, none of which was greater than 3 dB above the limit. During non-operational hours, 6 hourly intervals in excess of the limit were recorded, 2 of which were greater than 3 dB above the limit.

At monitor M4, measured hourly sound levels exceeded the hourly limit in 2 instances during operational hours, none of which were greater than 3 dB above the limit. During non-operational hours, 34 hourly intervals in excess of the limit were recorded, 7 of which were greater than 3 dB above the limit.

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by 3 dB or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ,\ 1\text{-}hr}$ levels when the TCEC was operational exceeded the prescribed sound level limits as specified in the NMP at M1 only.

Monitor M1

At monitor M1, measured hourly sound levels exceeded the hourly limit by more than 3 dB during 10 hourly intervals. The durations and statistical characteristics of the exceedances were similar to historically observed M1 exceedances. Additionally, operations logs showed that the sweeper and water trucks were running continuously during the exceedances on August 12th, 15th, 16th, 18th, and 19th. The operations logs noted that the sweeper truck was operating all day with the water truck operating as needed during the exceedances on August 29th. All of the 10 exceedances of 3 dB or more occurred on these days when there was either sweeper or water truck activity.

A site visit to M1 was conducted by RWDI earlier in the year, as recommended in the First Quarter report. Sounds at the monitor were characterized by the sweeper when passing by and were otherwise primarily due to passenger and heavy vehicles passing by with birdsong during lulls in traffic. Noise from landfilling was not audible at M1, which is consistent with the site visits performed at M1 in 2021 and 2020. Therefore, RWDI concludes that the landfilling is not the source of elevated sound levels at M1.

Monitor M2

The measured $L_{EQ,\ 1\text{-}hr}$ values during the Third Quarter exceeded the prescribed sound level limits by 3 dB or more at M2 during five hourly intervals while the TCEC was operational. The levels in excess of the limit occur on August 12, 25, 29, 30 and September 1. As part of construction activities, TCEC had been developing and drawing from a stockpile of gravel on the immediate opposite site of the berm from monitor M2 on those days. The gravel stockpiling activities include the drop-off of stone from trucks, building the stockpile with a bulldozer, and loading stone into trucks with a loader. The exceedances at M2 attributed to this construction activity and were not caused by landfilling.

Monitor M3

The measured $L_{EQ, 1\text{-}hr}$ values during the Third Quarter did not exceed the prescribed sound level limits by 3 dB or more at M3 during any hourly interval while the TCEC was operational.

Monitor M4

The measured $L_{EQ, 1\text{-}hr}$ values during the Third Quarter did not exceed the prescribed sound level limits by 3 dB or more at M4 during any hourly interval while the TCEC was operational.

In summary, none of the events of elevated sound level at the monitors are attributable to landfilling activity in the Third Quarter.

CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI AIR Inc.

Khalid Hussein, P.Eng.
Project Manager

Brent Langille, B.Sc., P.Geo.
Senior Consultant | Principal

KAMH/BJL/kta

Attach.

FIGURES



Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

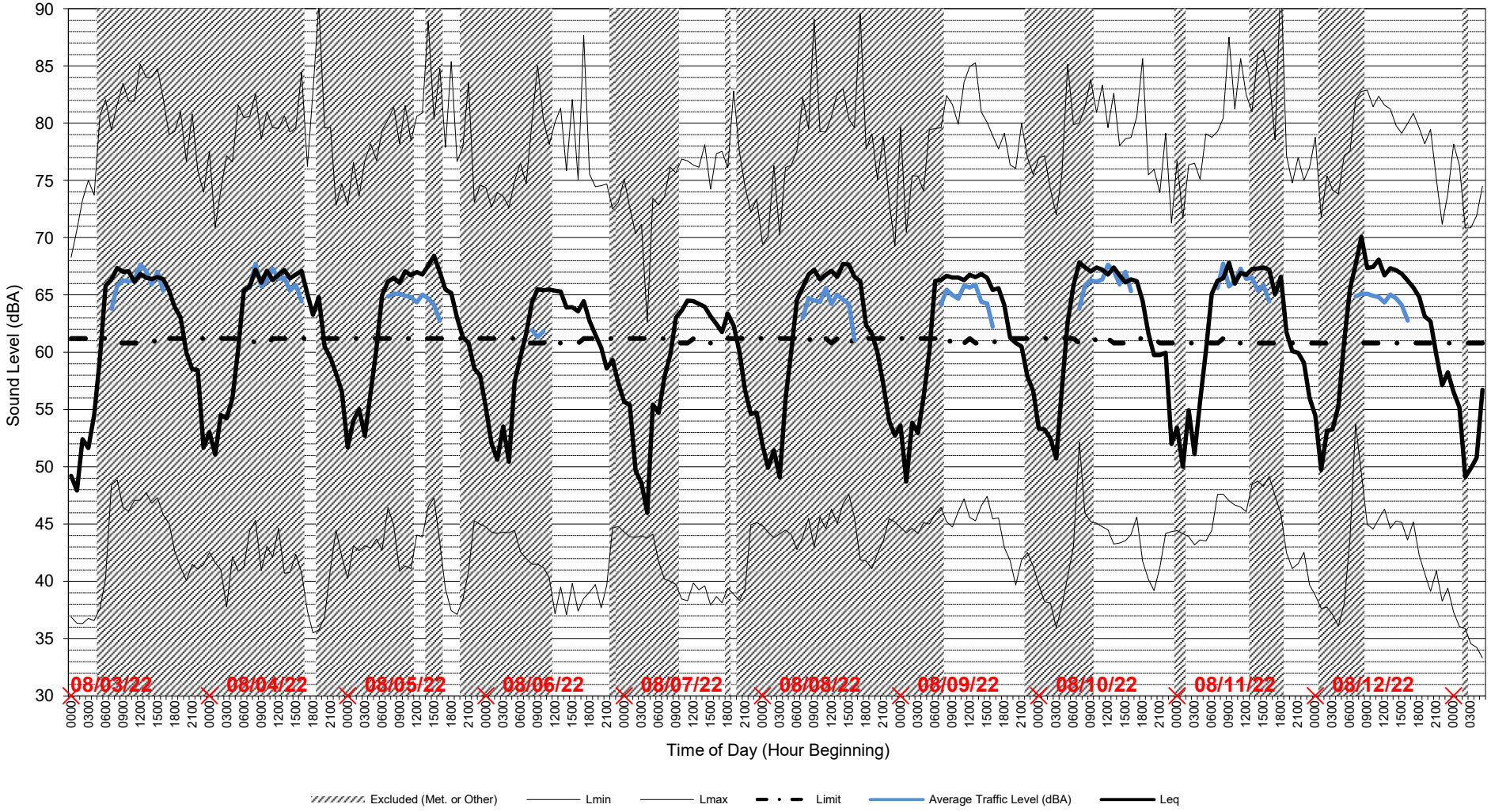
Project #2101781

Drawn by: KAMH Revised by: MFA	Figure: 1
Scale:	1:15000
Date:	Nov. 26, 2019

ATTACHMENT A

Long-Term Measurement Results

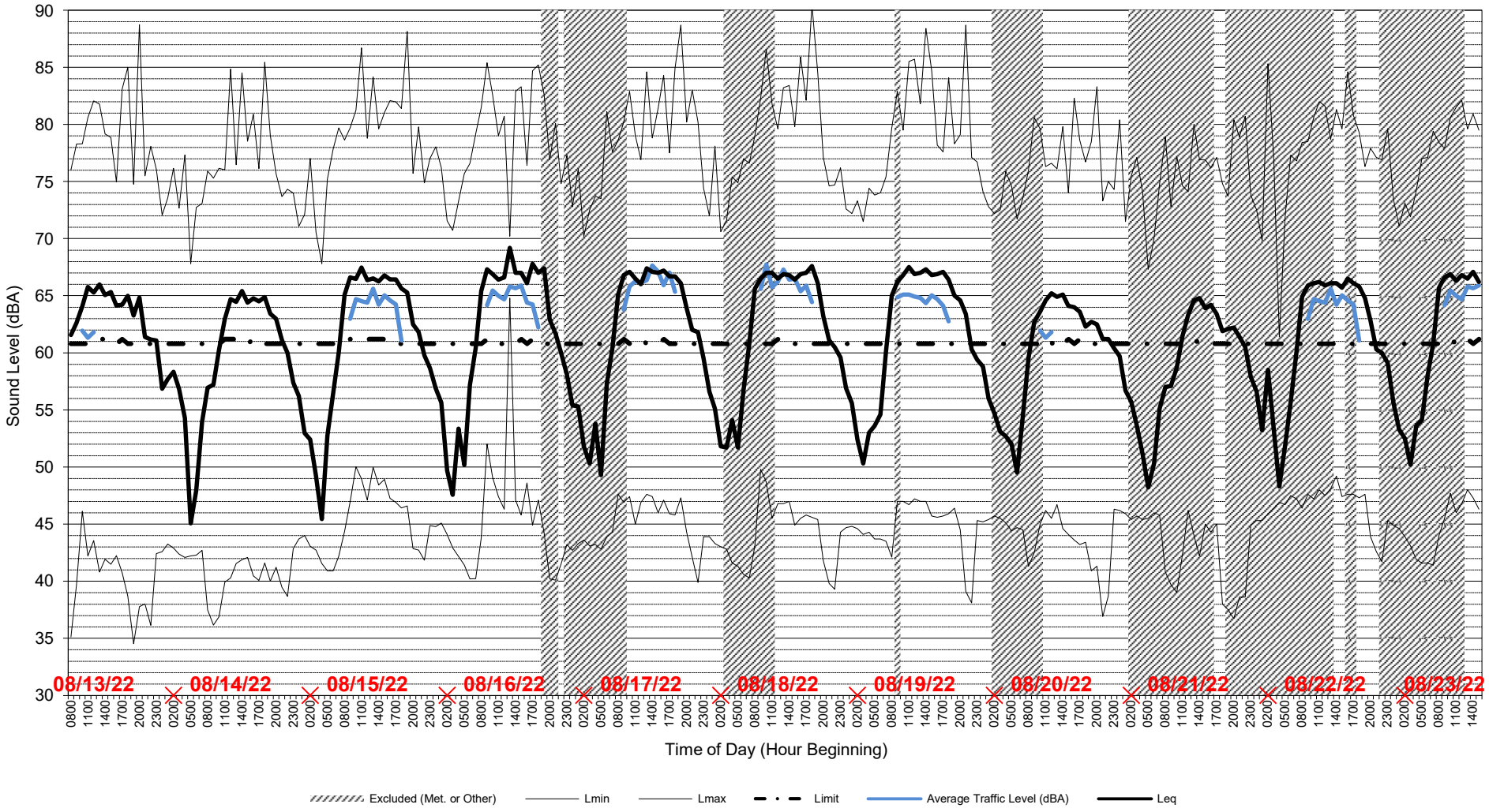
M1



Measured Ambient Sound Levels From Aug 3,2022 to Aug 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1a** Date: Nov 03, 2022	

Long-Term Measurement Results

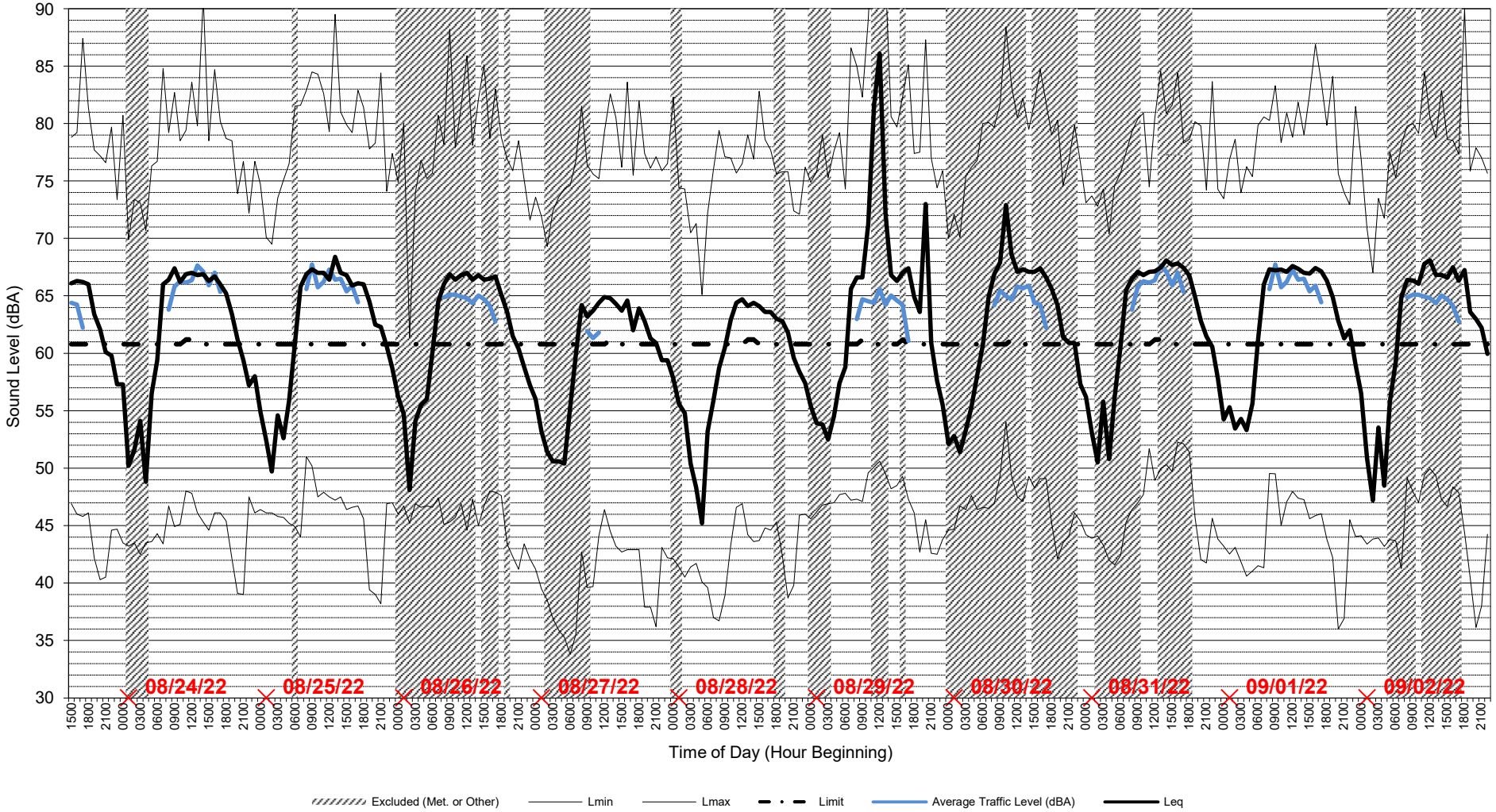
M1



Measured Ambient Sound Levels From Aug 13,2022 to Aug 23,2022 Twin Creeks Environmental Centre — Project # 2202861	Figure No. **M1b** Date: Nov 03, 2022	

Long-Term Measurement Results

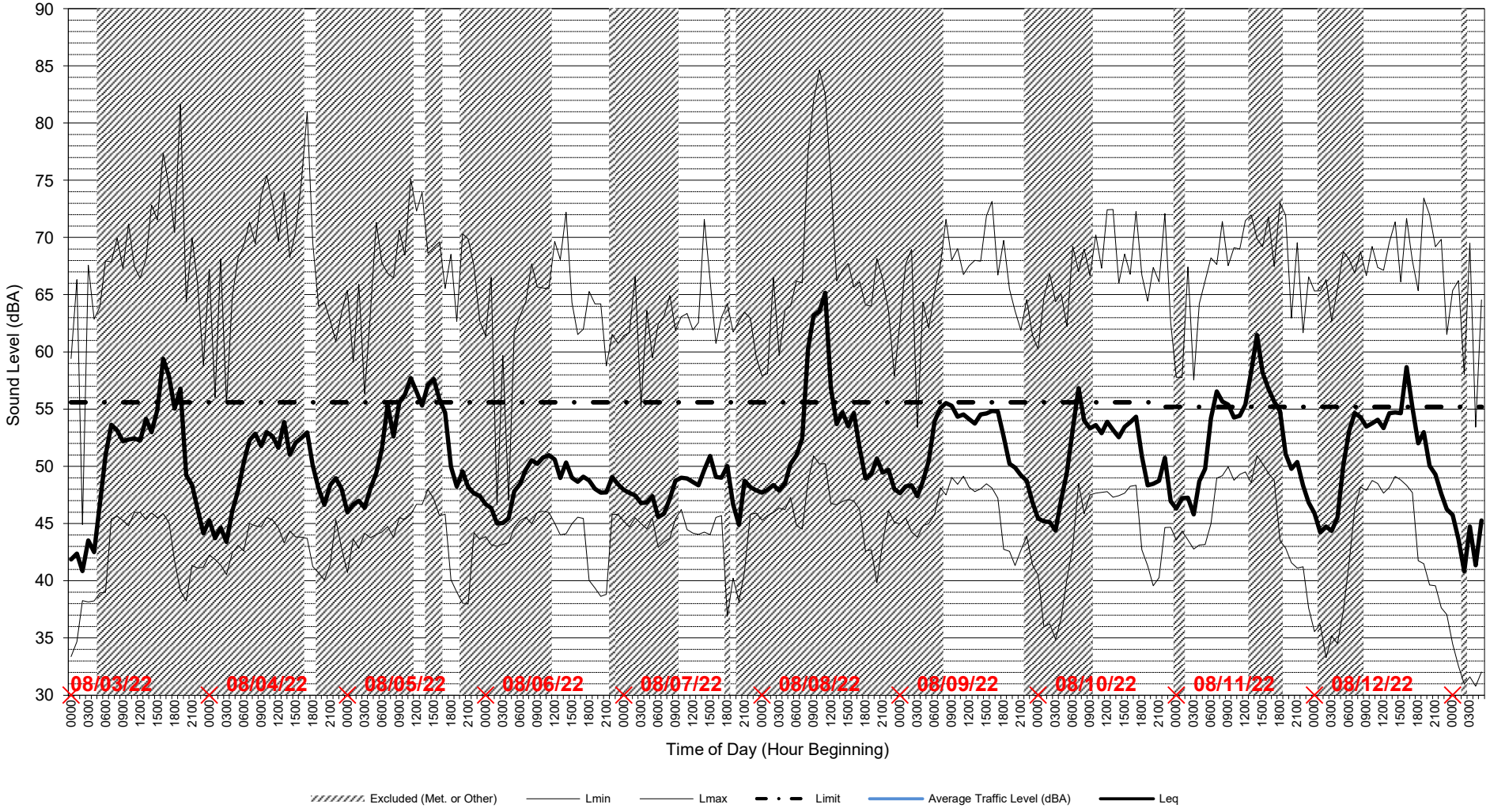
M1



Measured Ambient Sound Levels From Aug 23,2022 to Sep 2,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1c** Date: Nov 03, 2022	RWDI

Long-Term Measurement Results

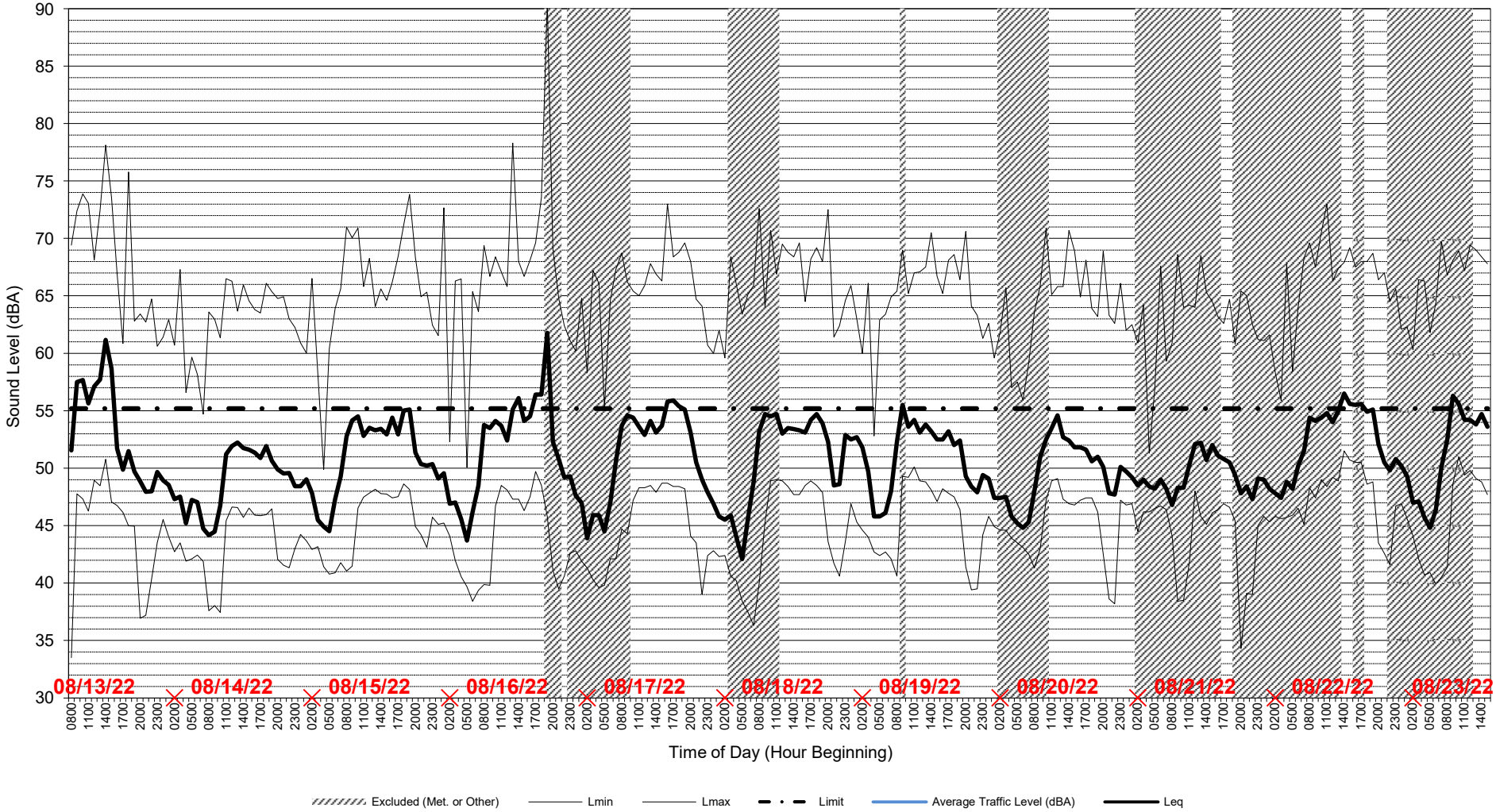
M2



Measured Ambient Sound Levels From Aug 3,2022 to Aug 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2a** Date: Nov 03, 2022	RWDI

Long-Term Measurement Results

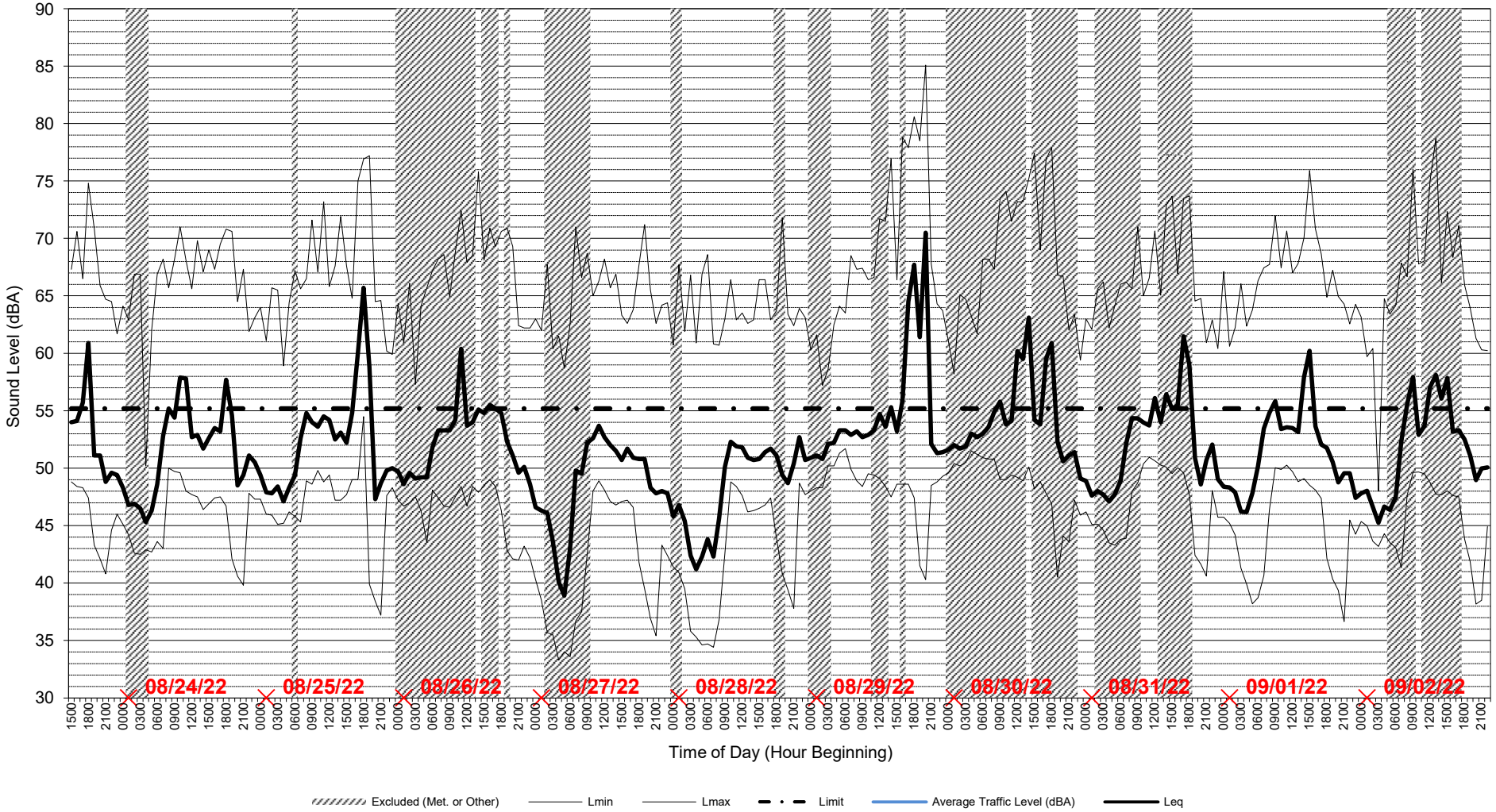
M2



Measured Ambient Sound Levels From Aug 13,2022 to Aug 23,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2b** Date: Nov 03, 2022	RWDI

Long-Term Measurement Results

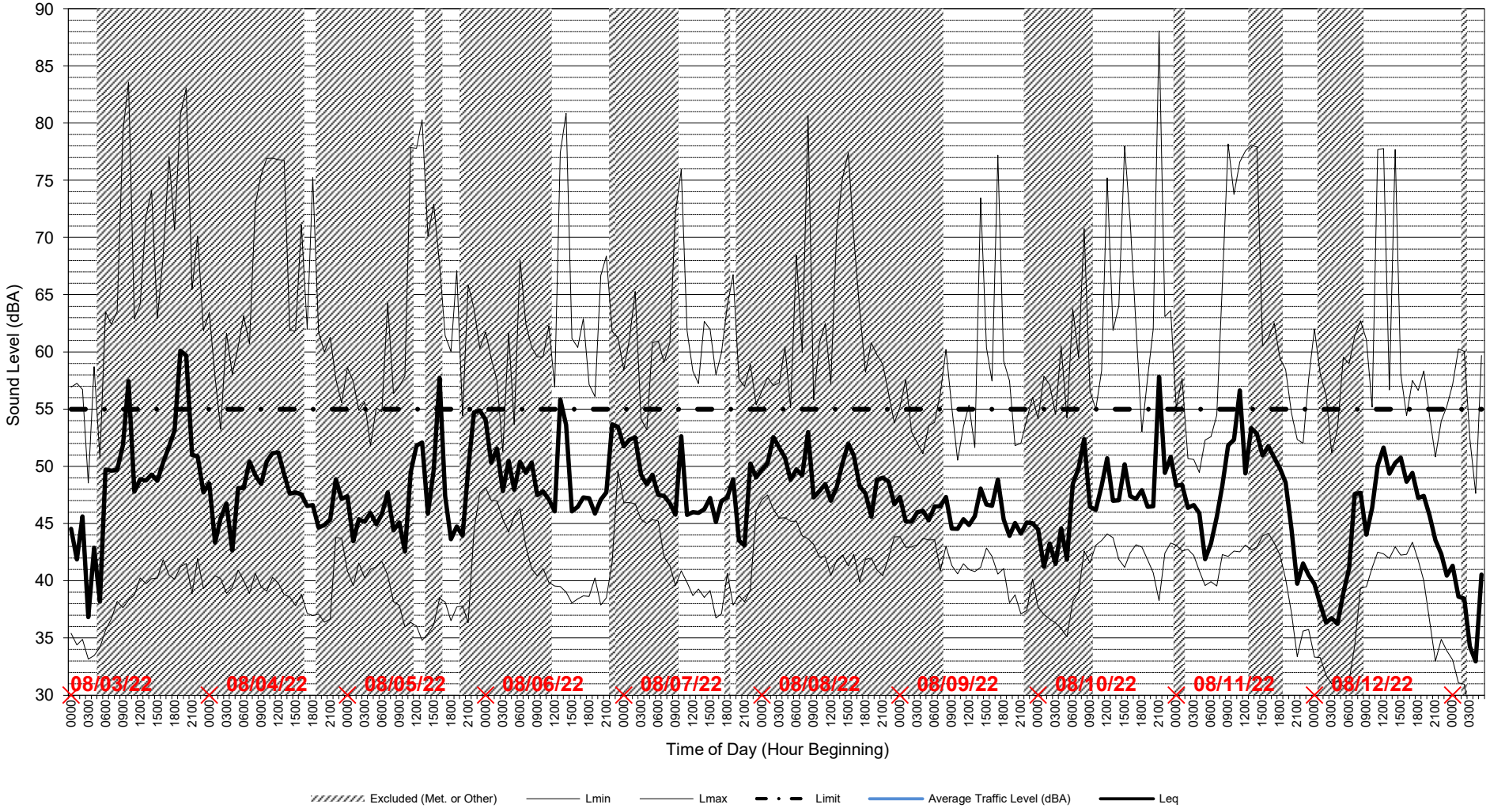
M2



Measured Ambient Sound Levels From Aug 23,2022 to Sep 2,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2c** Date: Nov 03, 2022	RWDI

Long-Term Measurement Results

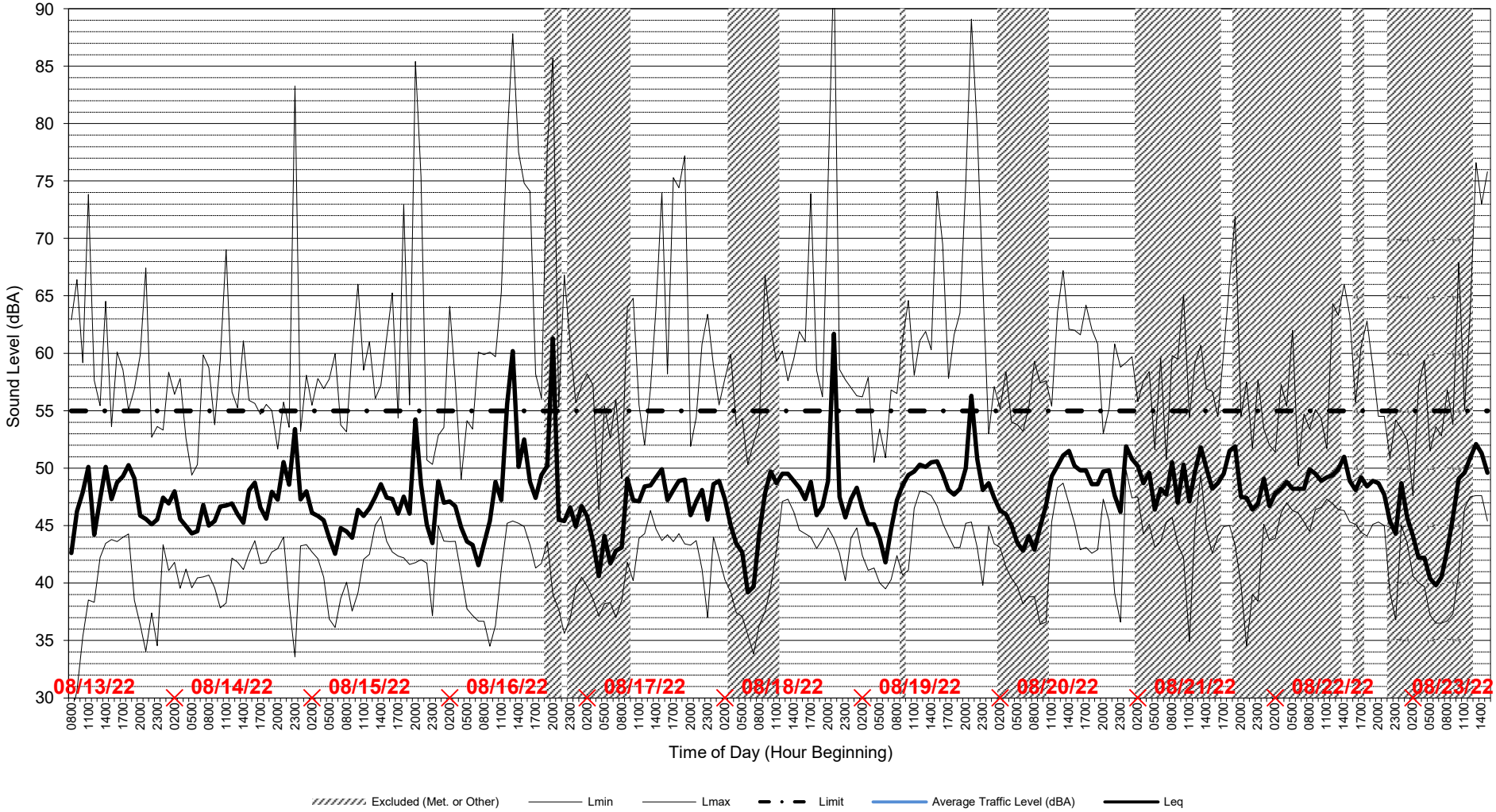
M3



Measured Ambient Sound Levels From Aug 3,2022 to Aug 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3a** Date: Nov 03, 2022	

Long-Term Measurement Results

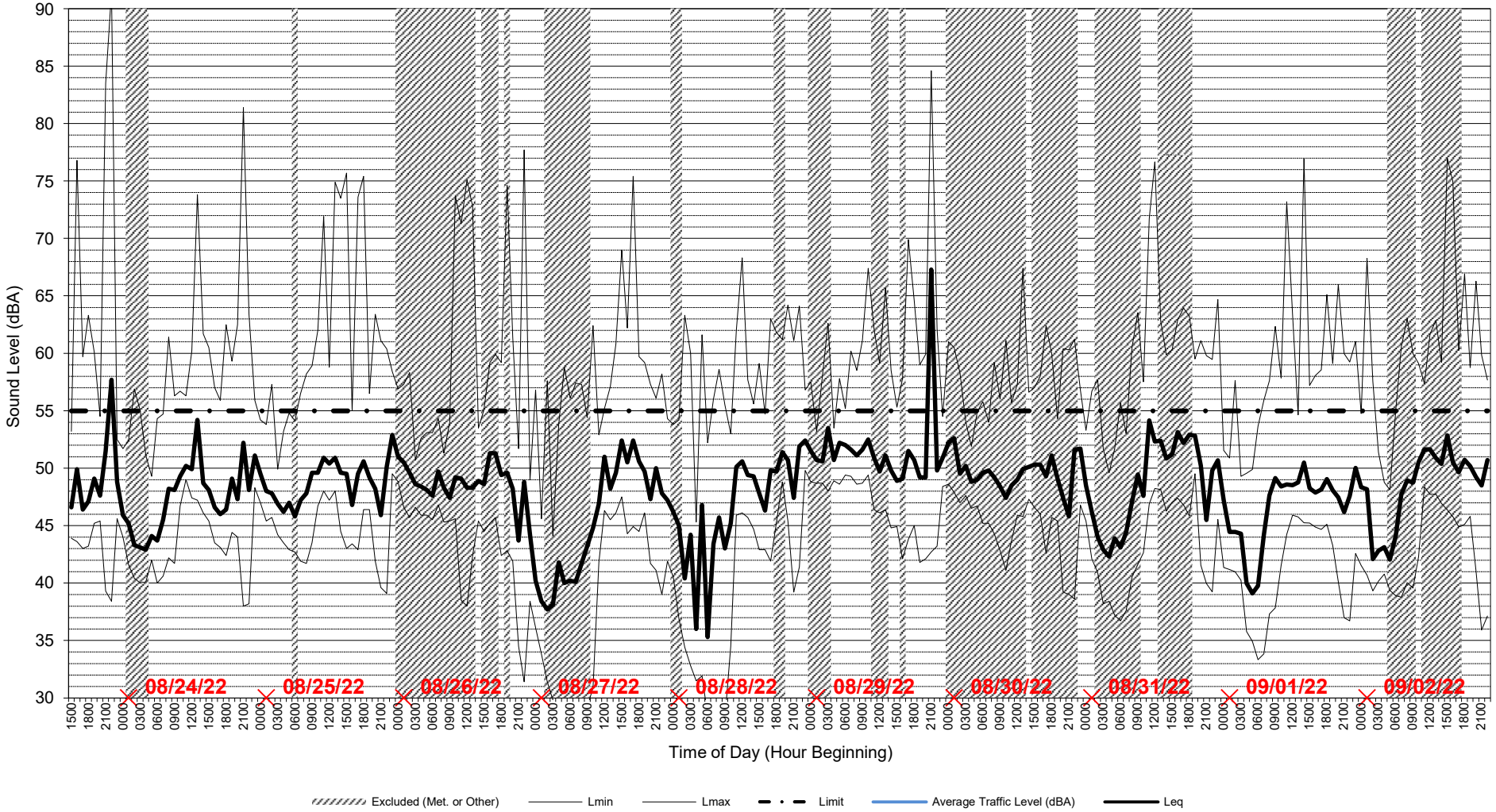
M3



Measured Ambient Sound Levels From Aug 13,2022 to Aug 23,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3b** Date: Nov 03, 2022	

Long-Term Measurement Results

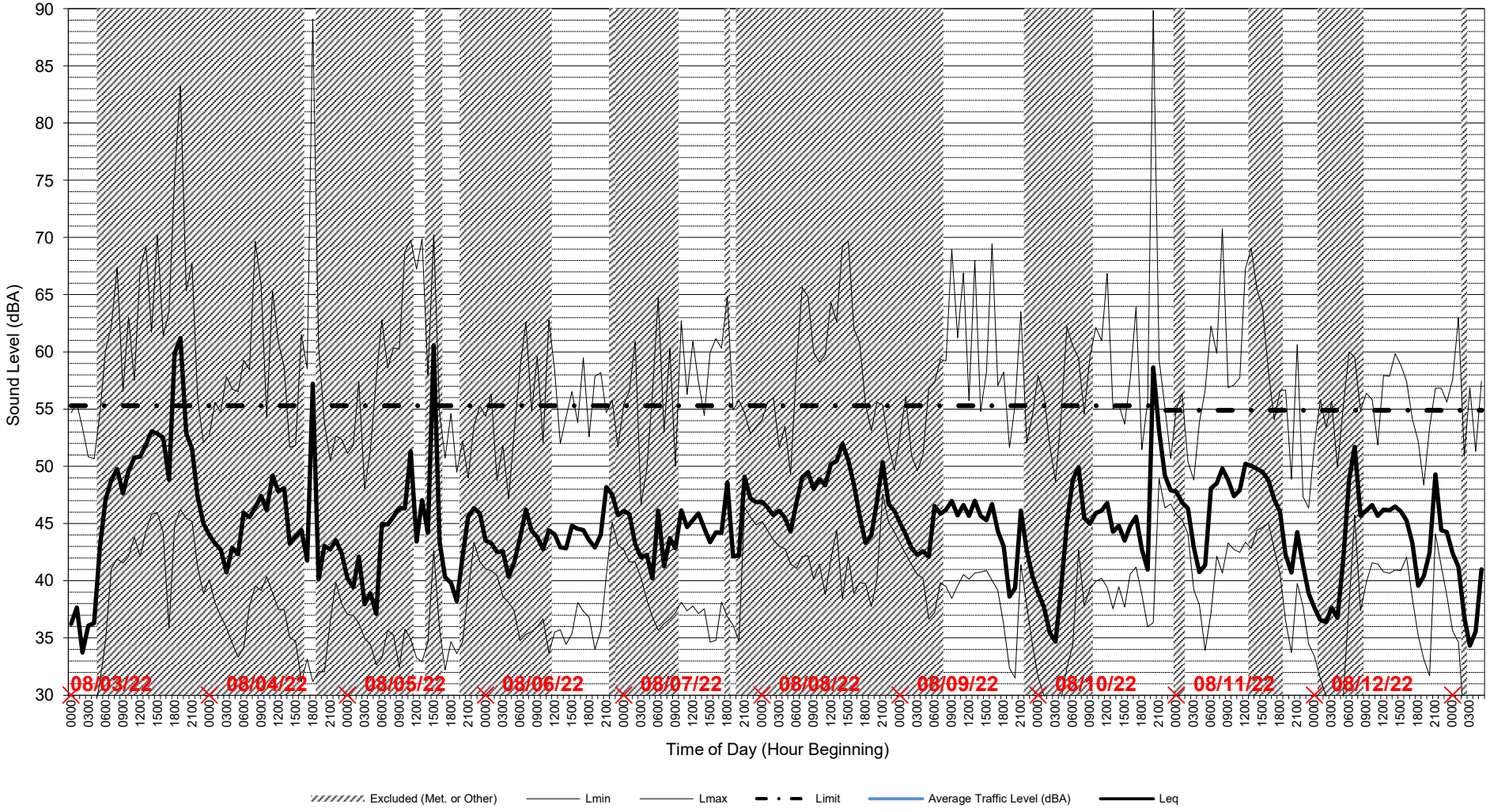
M3



Measured Ambient Sound Levels From Aug 23,2022 to Sep 2,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3c** Date: Nov 03, 2022	RWDI

Long-Term Measurement Results

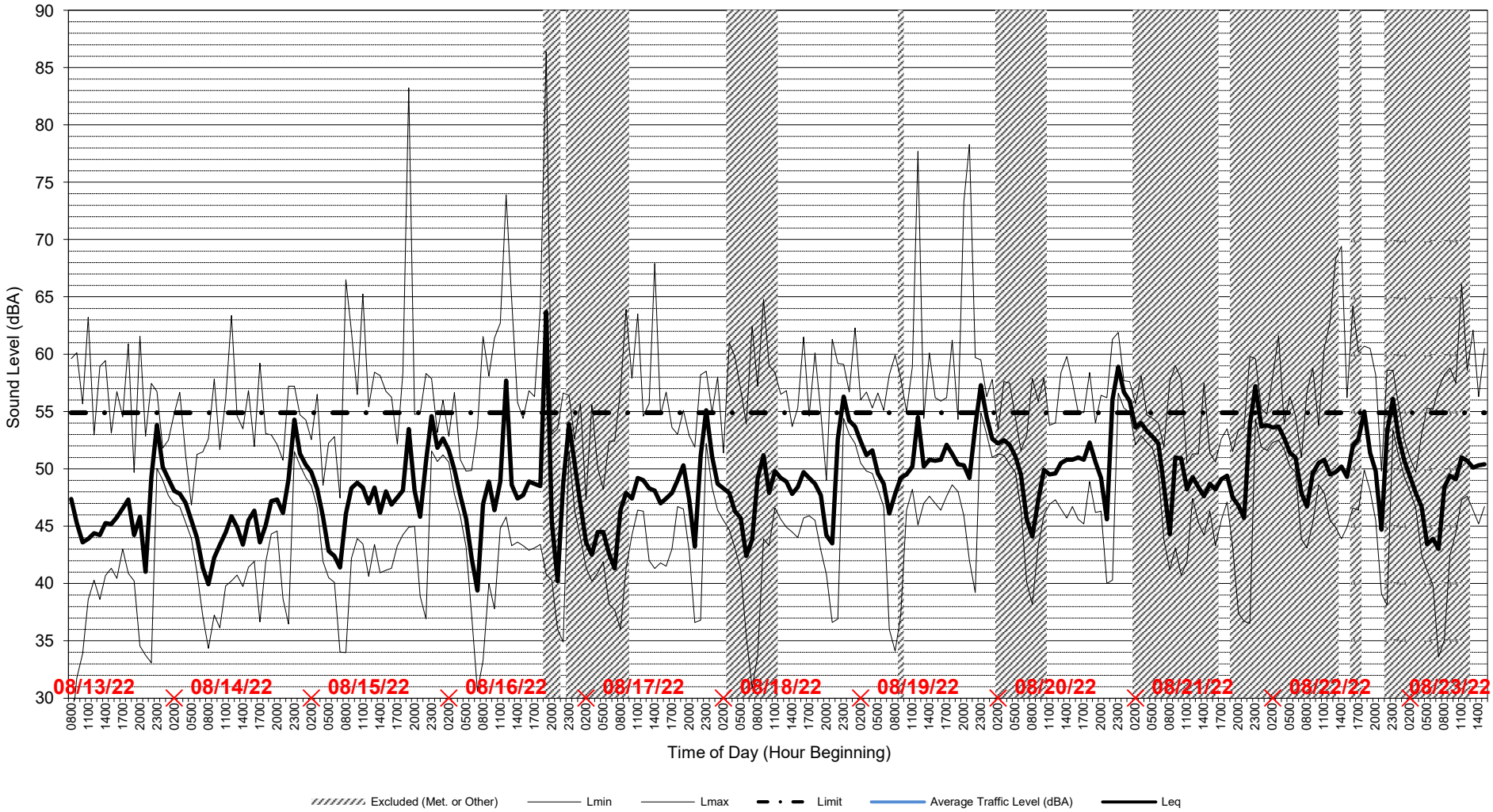
M4



Measured Ambient Sound Levels From Aug 3,2022 to Aug 13,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4a** Date: Nov 03, 2022	RWDI

Long-Term Measurement Results

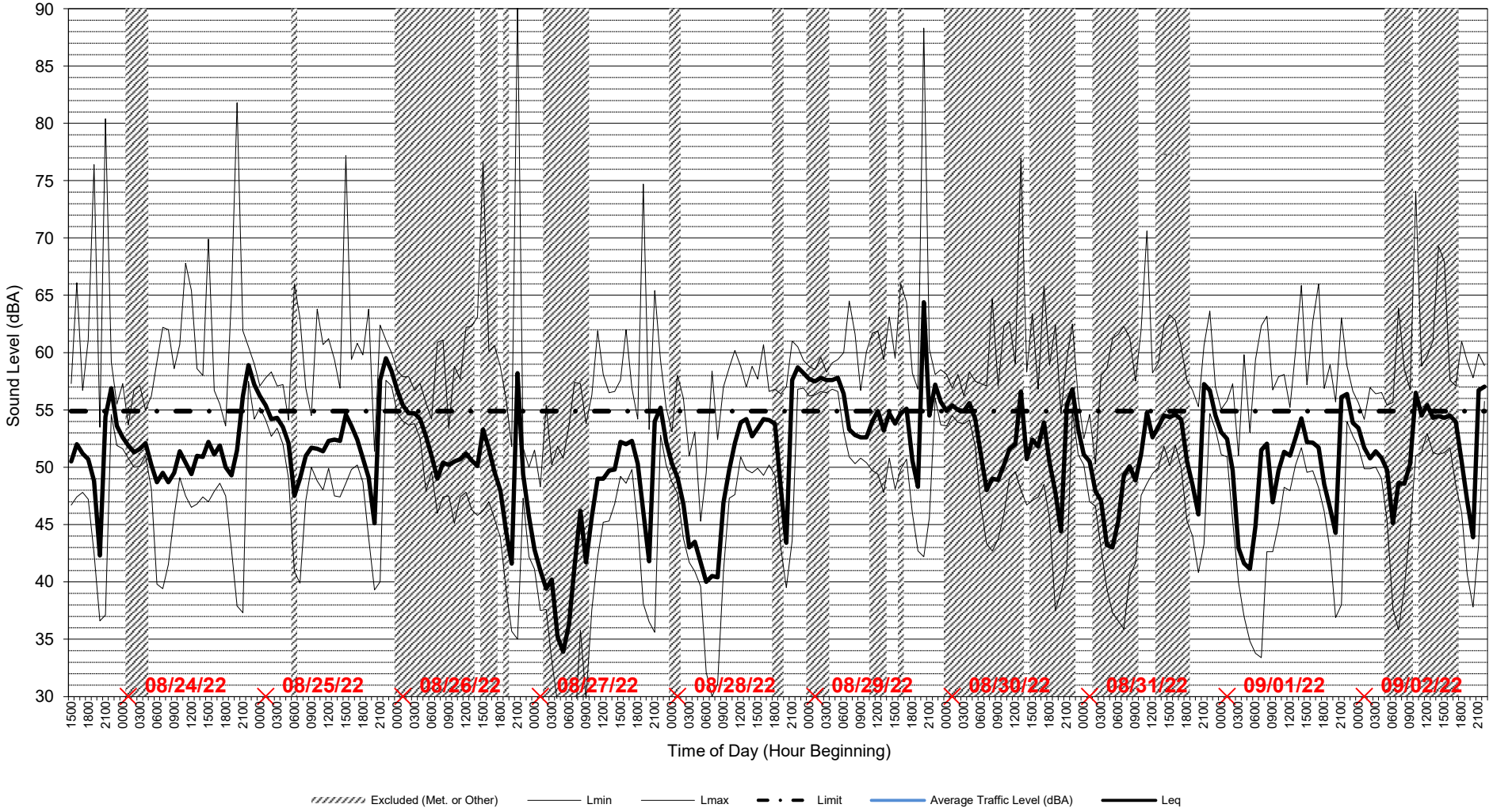
M4



Measured Ambient Sound Levels From Aug 13,2022 to Aug 23,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4b** Date: Nov 03, 2022	

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Aug 23,2022 to Sep 2,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4c** Date: Nov 03, 2022	RWDI

ATTACHMENT B

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/1/2022 0:00	22.4	13	21	SSE (151)	61	0	
7/1/2022 1:00	22.6	11	18	SSW (202)	61	0	
7/1/2022 2:00	22.4	11	19	SSW (200)	62	0	
7/1/2022 3:00	22.6	14	23	SW (227)	62	0	
7/1/2022 4:00	21.9	14	25	SSW (192)	64	0	
7/1/2022 5:00	22	15	23	SSW (209)	62	0	
7/1/2022 6:00	21.7	13	24	WSW (247)	63	0	
7/1/2022 7:00	21.9	11	18	SSW (212)	64	0	
7/1/2022 8:00	22.7	12	21	SW (221)	63	0	0
7/1/2022 9:00	23.9	12	22	SW (233)	61	0	
7/1/2022 10:00	25.5	15	22	SW (229)	57	0	
7/1/2022 11:00	26.1	15	24	SSW (210)	52	0	
7/1/2022 12:00	26.9	16	26	WSW (240)	50	0	
7/1/2022 13:00	26.6	16	26	W (264)	65	0.2	
7/1/2022 14:00	23.7	8	17	W (272)	78	1	
7/1/2022 15:00	26.1	12	28	SW (234)	68	0	
7/1/2022 16:00	26.5	21	30	WSW (240)	65	0	
7/1/2022 17:00	25.2	17	28	SW (230)	70	0	
7/1/2022 18:00	24.1	15	23	WSW (240)	75	0	
7/1/2022 19:00	23.7	13	20	WSW (249)	75	0	
7/1/2022 20:00	23.2	11	18	WSW (251)	82	0	
7/1/2022 21:00	22.2	6	13	NW (305)	85	0	
7/1/2022 22:00	21.2	4	10	NW (309)	87	0	
7/1/2022 23:00	20.1	7	14	NNW (340)	91	0	
7/2/2022 0:00	18.3	6	14	NW (323)	98	0	
7/2/2022 1:00	17.2	5	11	NW (309)	90	0	
7/2/2022 2:00	16.4	3	6	NNW (339)	100	0	
7/2/2022 3:00	15.5	3	7	W (268)	100	0	
7/2/2022 4:00	14	6	7	WSW (250)	100	0	
7/2/2022 5:00	13.8	4	7	W (267)	100	0	
7/2/2022 6:00	13.8	4	6	W (273)	100	0	
7/2/2022 7:00	15.9	3	6	SSW (209)	100	0	
7/2/2022 8:00	18.6	5	9	WSW (242)	86	0	1.2
7/2/2022 9:00	20.9	10	18	WSW (254)	61	0	
7/2/2022 10:00	22.6	13	22	SW (230)	50	0	
7/2/2022 11:00	24	14	24	SW (226)	47	0	
7/2/2022 12:00	25.3	16	34	W (267)	47	0	
7/2/2022 13:00	25.3	20	34	NW (310)	50	0	
7/2/2022 14:00	25.5	21	34	NW (308)	50	0	
7/2/2022 15:00	25.9	22	34	NW (318)	45	0	
7/2/2022 16:00	25.9	20	31	WNW (301)	40	0	
7/2/2022 17:00	26	19	29	WNW (293)	37	0	
7/2/2022 18:00	25.9	17	26	WNW (293)	35	0	
7/2/2022 19:00	25.3	11	20	NNE (17)	36	0	
7/2/2022 20:00	24.3	6	13	NW (326)	39	0	
7/2/2022 21:00	22.1	2	7	SSE (166)	54	0	
7/2/2022 22:00	19.6	3	18	NNE (15)	67	0	
7/2/2022 23:00	17.7	9	18	N (10)	72	0	
7/3/2022 0:00	16.9	5	11	NE (36)	74	0	
7/3/2022 1:00	16.4	7	11	NNE (23)	74	0	
7/3/2022 2:00	16.2	8	12	NE (34)	62	0	
7/3/2022 3:00	16	6	11	E (88)	57	0	
7/3/2022 4:00	15.6	4	7	ENE (77)	63	0	
7/3/2022 5:00	14.9	3	6	ENE (62)	68	0	
7/3/2022 6:00	14.4	8	10	NE (53)	69	0	
7/3/2022 7:00	16.5	10	18	NE (36)	58	0	
7/3/2022 8:00	17.9	14	21	NE (43)	52	0	0
7/3/2022 9:00	19.5	9	17	ENE (65)	48	0	
7/3/2022 10:00	21.6	7	13	NNW (338)	41	0	
7/3/2022 11:00	22.6	6	15	NW (306)	40	0	
7/3/2022 12:00	23.6	6	15	S (184)	40	0	
7/3/2022 13:00	24.4	5	20	WSW (256)	39	0	
7/3/2022 14:00	24.5	7	15	WNW (284)	43	0	
7/3/2022 15:00	25	9	20	NW (318)	43	0	
7/3/2022 16:00	25.6	9	21	NNW (332)	42	0	
7/3/2022 17:00	26.1	6	13	N (354)	42	0	
7/3/2022 18:00	26.3	7	16	WNW (298)	41	0	
7/3/2022 19:00	25.9	6	14	ENE (69)	41	0	
7/3/2022 20:00	23.9	8	12	ENE (70)	49	0	
7/3/2022 21:00	22	9	13	SSE (163)	55	0	
7/3/2022 22:00	21.1	10	15	SSE (154)	50	0	
7/3/2022 23:00	20	9	12	SSE (156)	50	0	
7/4/2022 0:00	19.4	6	10	SE (140)	50	0	
7/4/2022 1:00	18.8	9	12	SE (144)	54	0	
7/4/2022 2:00	18	7	10	SE (129)	60	0	
7/4/2022 3:00	17.2	4	7	SE (127)	68	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/4/2022 4:00	16.6	5	10	ESE (107)	72	0	
7/4/2022 5:00	16.1	3	5	E (86)	77	0	
7/4/2022 6:00	16.1	4	6	ESE (121)	78	0	
7/4/2022 7:00	18.6	7	13	SSE (154)	74	0	
7/4/2022 8:00	21.5	9	13	SSW (210)	68	0	0
7/4/2022 9:00	23.7	8	18	SSW (209)	66	0	
7/4/2022 10:00	25.7	12	22	WSW (241)	58	0	
7/4/2022 11:00	27.3	11	19	WSW (251)	53	0	
7/4/2022 12:00	28.6	12	26	SSE (163)	48	0	
7/4/2022 13:00	29.4	14	25	SW (234)	43	0	
7/4/2022 14:00	29.9	14	25	SW (222)	38	0	
7/4/2022 15:00	30.1	12	23	SSE (159)	37	0	
7/4/2022 16:00	30.7	12	25	SW (226)	34	0	
7/4/2022 17:00	30.9	13	23	SW (218)	32	0	
7/4/2022 18:00	30.1	16	24	SW (221)	37	0	
7/4/2022 19:00	28.7	14	26	S (169)	42	0	
7/4/2022 20:00	27.2	13	18	S (172)	45	0	
7/4/2022 21:00	26.1	13	19	SSE (152)	48	0	
7/4/2022 22:00	25.4	13	17	SE (135)	55	0	
7/4/2022 23:00	24	17	24	SE (140)	63	0	
7/5/2022 0:00	23.3	18	22	SSE (149)	64	0	
7/5/2022 1:00	23.4	18	24	SE (137)	64	0	
7/5/2022 2:00	23.3	16	25	SE (137)	62	0	
7/5/2022 3:00	23.6	15	27	SSW (203)	64	0	
7/5/2022 4:00	23.3	15	28	SW (226)	66	0	
7/5/2022 5:00	21.8	17	32	S (190)	78	0.4	
7/5/2022 6:00	20.4	14	23	SSE (162)	100	2.2	
7/5/2022 7:00	20.1	15	28	SSE (165)	100	1.6	
7/5/2022 8:00	20.7	13	23	S (182)	100	0.2	4.4
7/5/2022 9:00	22.3	18	29	SW (236)	100	0	
7/5/2022 10:00	23.7	21	31	WSW (246)	93	0	
7/5/2022 11:00	24.5	19	28	W (273)	82	0	
7/5/2022 12:00	25.5	20	36	WNW (282)	81	0	
7/5/2022 13:00	26.5	23	35	WNW (303)	71	0	
7/5/2022 14:00	27.6	21	41	W (271)	65	0	
7/5/2022 15:00	27.9	19	32	WNW (290)	64	0	
7/5/2022 16:00	25.9	19	31	N (1)	76	0	
7/5/2022 17:00	23.3	19	29	N (0)	77	0	
7/5/2022 18:00	22.8	17	28	NNW (344)	74	0	
7/5/2022 19:00	22.6	16	29	NNE (17)	73	0	
7/5/2022 20:00	21.4	16	25	N (4)	78	0	
7/5/2022 21:00	20	10	15	N (11)	82	0	
7/5/2022 22:00	19.4	9	19	NNE (17)	87	0	
7/5/2022 23:00	18.7	8	12	NE (45)	97	0	
7/6/2022 0:00	18.2	7	12	ENE (57)	100	0	
7/6/2022 1:00	17.8	4	9	WNW (290)	100	0	
7/6/2022 2:00	17.4	2	5	WNW (288)	100	0	
7/6/2022 3:00	17.4	4	7	NNW (337)	100	0	
7/6/2022 4:00	17.3	3	7	NNE (22)	100	0	
7/6/2022 5:00	16.9	4	9	NNE (13)	100	0	
7/6/2022 6:00	17.4	4	13	NNW (331)	100	0	
7/6/2022 7:00	17.5	8	15	NNE (21)	100	0	
7/6/2022 8:00	17.9	9	16	NNE (30)	100	0	0
7/6/2022 9:00	18.3	10	16	NNE (24)	100	0	
7/6/2022 10:00	19.1	7	13	NE (39)	100	0	
7/6/2022 11:00	20	6	11	NNE (18)	98	0	
7/6/2022 12:00	20.9	7	13	NNW (344)	91	0	
7/6/2022 13:00	22.8	9	23	NNW (330)	84	0	
7/6/2022 14:00	23.4	10	19	NNE (28)	73	0	
7/6/2022 15:00	23.8	13	23	N (5)	70	0	
7/6/2022 16:00	23.9	13	22	NW (316)	68	0	
7/6/2022 17:00	23.6	15	27	NW (321)	67	0	
7/6/2022 18:00	22.3	18	27	NNW (335)	68	0	
7/6/2022 19:00	21.1	13	23	N (354)	73	0	
7/6/2022 20:00	19.8	12	21	N (353)	79	0	
7/6/2022 21:00	18.5	9	16	NNW (341)	87	0	
7/6/2022 22:00	17.5	3	8	NW (313)	96	0	
7/6/2022 23:00	16.9	4	8	WNW (285)	100	0	
7/7/2022 0:00	16.1	2	5	SW (216)	100	0	
7/7/2022 1:00	16	1	5	SSW (194)	100	0	
7/7/2022 2:00	15.7	4	5	SW (224)	100	0	
7/7/2022 3:00	16	3	11	SE (140)	100	0	
7/7/2022 4:00	16.6	9	16	NE (51)	100	0	
7/7/2022 5:00	15.6	1	5	SSW (212)	100	0	
7/7/2022 6:00	15.8	5	10	WSW (237)	100	0	
7/7/2022 7:00	16.8	3	8	WSW (248)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/7/2022 8:00	19.1	4	8	SSW (209)	96	0	0
7/7/2022 9:00	21	4	9	SW (233)	79	0	
7/7/2022 10:00	22.3	5	13	W (260)	66	0	
7/7/2022 11:00	23	6	12	WNW (297)	64	0	
7/7/2022 12:00	23.9	10	20	NW (325)	65	0	
7/7/2022 13:00	23.9	14	24	WNW (303)	63	0	
7/7/2022 14:00	24.3	13	23	N (3)	57	0	
7/7/2022 15:00	24.7	13	23	NNW (330)	51	0	
7/7/2022 16:00	25.1	11	21	NNW (347)	47	0	
7/7/2022 17:00	25.4	9	19	N (4)	47	0	
7/7/2022 18:00	25.5	8	14	NE (47)	49	0	
7/7/2022 19:00	25.5	4	10	N (7)	51	0	
7/7/2022 20:00	24.3	5	8	NE (43)	56	0	
7/7/2022 21:00	22	6	10	NE (46)	63	0	
7/7/2022 22:00	20.4	6	8	E (97)	71	0	
7/7/2022 23:00	20.1	7	14	SE (134)	71	0	
7/8/2022 0:00	19.6	4	9	SSW (208)	74	0	
7/8/2022 1:00	19.5	4	8	S (178)	82	0	
7/8/2022 2:00	19.2	5	9	SSE (161)	88	0	
7/8/2022 3:00	19.2	5	8	S (186)	89	0	
7/8/2022 4:00	19.2	4	7	SSW (197)	93	0	
7/8/2022 5:00	18.7	3	5	SSE (151)	100	0	
7/8/2022 6:00	19	4	8	SSW (210)	100	0	
7/8/2022 7:00	20.4	5	9	SW (221)	98	0	
7/8/2022 8:00	22	7	11	WNW (286)	93	0	0
7/8/2022 9:00	23.1	10	16	NNW (329)	80	0	
7/8/2022 10:00	24.4	9	16	NW (319)	71	0	
7/8/2022 11:00	25.7	10	20	NNW (332)	64	0	
7/8/2022 12:00	25.4	17	28	NW (322)	63	0	
7/8/2022 13:00	24.6	16	24	N (0)	63	0	
7/8/2022 14:00	24.1	18	30	N (10)	64	0	
7/8/2022 15:00	22.9	16	31	NW (316)	67	0	
7/8/2022 16:00	21.2	16	28	WNW (294)	69	0	
7/8/2022 17:00	21.7	15	27	NNW (338)	67	0	
7/8/2022 18:00	21.7	16	27	NNW (333)	63	0	
7/8/2022 19:00	21.3	14	24	NNW (343)	65	0	
7/8/2022 20:00	19.8	13	28	NNW (337)	72	0	
7/8/2022 21:00	18.3	10	21	NNW (331)	77	0	
7/8/2022 22:00	17.5	7	13	N (353)	80	0	
7/8/2022 23:00	16.8	12	18	N (9)	80	0	
7/9/2022 0:00	15.9	12	18	NNE (15)	80	0	
7/9/2022 1:00	14.6	8	13	NNE (24)	75	0	
7/9/2022 2:00	13.6	9	16	NE (42)	75	0	
7/9/2022 3:00	13	9	13	ENE (59)	75	0	
7/9/2022 4:00	12.3	6	12	E (81)	78	0	
7/9/2022 5:00	12.9	11	21	NE (47)	77	0	
7/9/2022 6:00	13.6	14	22	E (84)	72	0	
7/9/2022 7:00	15.4	15	24	ENE (62)	67	0	
7/9/2022 8:00	17.9	16	23	NE (48)	56	0	0
7/9/2022 9:00	19.9	17	25	ENE (65)	48	0	
7/9/2022 10:00	21.5	13	24	E (80)	42	0	
7/9/2022 11:00	22.8	8	18	E (96)	41	0	
7/9/2022 12:00	23.8	9	23	NNE (32)	41	0	
7/9/2022 13:00	23.3	14	27	NNE (27)	45	0	
7/9/2022 14:00	23.3	16	27	NNW (340)	45	0	
7/9/2022 15:00	23.2	19	29	NW (317)	44	0	
7/9/2022 16:00	22.7	19	31	NNW (330)	46	0	
7/9/2022 17:00	22	17	29	N (5)	49	0	
7/9/2022 18:00	21.7	15	25	NNW (340)	49	0	
7/9/2022 19:00	20.6	13	23	N (9)	54	0	
7/9/2022 20:00	19.2	11	20	NNW (348)	67	0	
7/9/2022 21:00	16.9	8	16	N (8)	78	0	
7/9/2022 22:00	15.5	6	11	WNW (300)	82	0	
7/9/2022 23:00	14.4	4	10	NE (34)	85	0	
7/10/2022 0:00	14.1	7	11	ENE (75)	85	0	
7/10/2022 1:00	13.7	5	8	E (84)	80	0	
7/10/2022 2:00	12.9	4	6	E (99)	82	0	
7/10/2022 3:00	12.8	3	5	ESE (107)	81	0	
7/10/2022 4:00	12.2	4	6	E (100)	82	0	
7/10/2022 5:00	11.5	4	5	ESE (107)	82	0	
7/10/2022 6:00	11.6	2	4	E (82)	82	0	
7/10/2022 7:00	13.4	5	11	E (100)	80	0	
7/10/2022 8:00	17.6	13	21	E (97)	69	0	0
7/10/2022 9:00	20.7	14	20	SE (128)	52	0	
7/10/2022 10:00	22.4	13	25	SE (133)	44	0	
7/10/2022 11:00	23.6	15	31	SE (134)	40	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/10/2022 12:00	24.6	15	26	SSE (155)	38	0	
7/10/2022 13:00	25.3	10	23	SSE (158)	40	0	
7/10/2022 14:00	26	14	27	SE (134)	35	0	
7/10/2022 15:00	26.4	14	28	SSE (147)	33	0	
7/10/2022 16:00	27	7	20	SSE (154)	33	0	
7/10/2022 17:00	27.1	7	18	SSW (212)	32	0	
7/10/2022 18:00	26.8	11	20	SSE (150)	33	0	
7/10/2022 19:00	25.9	13	20	SSW (193)	33	0	
7/10/2022 20:00	24	8	17	S (175)	40	0	
7/10/2022 21:00	21.7	8	12	S (170)	44	0	
7/10/2022 22:00	20.5	7	13	SSW (207)	42	0	
7/10/2022 23:00	19.4	6	10	S (184)	44	0	
7/11/2022 0:00	18.2	9	15	SSW (206)	57	0	
7/11/2022 1:00	16.7	5	12	SSE (167)	70	0	
7/11/2022 2:00	16.4	7	12	S (174)	76	0	
7/11/2022 3:00	16	6	12	SSW (210)	78	0	
7/11/2022 4:00	16.7	7	12	SSW (201)	79	0	
7/11/2022 5:00	17.2	5	9	SSW (194)	81	0	
7/11/2022 6:00	17.1	7	14	SW (218)	82	0	
7/11/2022 7:00	17.9	9	18	SSW (208)	79	0	
7/11/2022 8:00	20.8	12	21	SSW (212)	72	0	0
7/11/2022 9:00	22.9	16	25	SSW (213)	64	0	
7/11/2022 10:00	24.8	19	29	SW (229)	56	0	
7/11/2022 11:00	26.5	25	40	SW (227)	48	0	
7/11/2022 12:00	27.6	26	39	SW (230)	38	0	
7/11/2022 13:00	28.2	27	42	SSW (209)	39	0	
7/11/2022 14:00	28.8	27	45	SW (223)	36	0	
7/11/2022 15:00	28.9	26	40	SW (233)	38	0	
7/11/2022 16:00	28.6	24	43	SSW (202)	42	0	
7/11/2022 17:00	28	19	37	SW (222)	47	0	
7/11/2022 18:00	28	25	42	SW (229)	49	0	
7/11/2022 19:00	27.4	24	38	SW (232)	53	0	
7/11/2022 20:00	26.8	17	28	SW (228)	58	0	
7/11/2022 21:00	26.2	16	25	SW (229)	62	0	
7/11/2022 22:00	25.5	12	17	SSW (208)	66	0	
7/11/2022 23:00	25.1	12	20	SW (214)	68	0	
7/12/2022 0:00	24.6	11	18	SW (231)	70	0	
7/12/2022 1:00	23.4	20	34	WSW (237)	85	1.6	
7/12/2022 2:00	20.9	19	34	W (262)	86	0	
7/12/2022 3:00	20.4	17	30	WSW (250)	86	0	
7/12/2022 4:00	19.9	16	26	W (259)	88	0	
7/12/2022 5:00	18.8	12	18	W (273)	92	0	
7/12/2022 6:00	18.3	9	15	W (262)	95	0.2	
7/12/2022 7:00	19	14	27	WSW (254)	94	0	
7/12/2022 8:00	19.7	18	28	WNW (288)	85	0	1.8
7/12/2022 9:00	20.3	15	27	NW (304)	83	0	
7/12/2022 10:00	21.5	19	33	NW (305)	77	0	
7/12/2022 11:00	21.8	22	33	WNW (282)	76	0	
7/12/2022 12:00	22.7	21	32	NW (311)	67	0	
7/12/2022 13:00	23.6	18	29	WNW (303)	63	0	
7/12/2022 14:00	24.1	18	29	NW (317)	63	0	
7/12/2022 15:00	24	13	26	NW (308)	63	0	
7/12/2022 16:00	23.8	13	25	NW (315)	65	0	
7/12/2022 17:00	24.4	15	23	NW (307)	57	0	
7/12/2022 18:00	23.2	16	31	NW (309)	69	0	
7/12/2022 19:00	20.2	15	31	N (0)	83	0	
7/12/2022 20:00	19.5	11	17	N (11)	84	0	
7/12/2022 21:00	18.6	7	13	NNE (13)	84	0	
7/12/2022 22:00	18.1	5	13	NNW (329)	85	0	
7/12/2022 23:00	18	7	15	WNW (288)	85	0	
7/13/2022 0:00	16.9	6	11	NW (326)	100	0	
7/13/2022 1:00	16.1	5	10	NW (306)	100	0	
7/13/2022 2:00	15.4	4	7	W (278)	100	0	
7/13/2022 3:00	15.1	3	5	NE (47)	100	0	
7/13/2022 4:00	14.4	2	5	NNE (30)	100	0	
7/13/2022 5:00	14.1	1	3	NE (51)	100	0.2	
7/13/2022 6:00	14.5	1	3	E (99)	100	0	
7/13/2022 7:00	16.5	2	4	N (3)	100	0	
7/13/2022 8:00	18.6	2	6	WNW (289)	91	0	0.2
7/13/2022 9:00	19.3	4	9	NNE (18)	70	0	
7/13/2022 10:00	19.8	4	8	NNW (347)	61	0	
7/13/2022 11:00	19.1	7	13	NNW (335)	72	0.2	
7/13/2022 12:00	18.4	4	7	NE (48)	74	0	
7/13/2022 13:00	19.5	5	11	NNE (30)	74	0	
7/13/2022 14:00	19.4	3	7	WSW (239)	78	0.4	
7/13/2022 15:00	19.3	3	9	NE (49)	78	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/13/2022 16:00	20.2	6	13	N (5)	74	0	
7/13/2022 17:00	19.8	7	13	NNE (32)	75	0	
7/13/2022 18:00	20.8	6	14	NNE (15)	71	0	
7/13/2022 19:00	20.8	10	16	NNW (338)	69	0	
7/13/2022 20:00	19.5	7	14	NW (326)	72	0	
7/13/2022 21:00	17.3	4	11	NE (39)	82	0	
7/13/2022 22:00	15.9	3	6	N (353)	100	0	
7/13/2022 23:00	15	4	8	NE (36)	100	0	
7/14/2022 0:00	14.5	4	8	NNE (20)	100	0	
7/14/2022 1:00	13.8	3	7	N (0)	100	0	
7/14/2022 2:00	13.7	3	5	NE (47)	100	0	
7/14/2022 3:00	13.4	2	3	N (3)	100	0	
7/14/2022 4:00	12.8	2	4	N (1)	100	0	
7/14/2022 5:00	11.8	3	6	N (9)	100	0.2	
7/14/2022 6:00	12.4	1	3	NW (312)	100	0	
7/14/2022 7:00	14.4	2	8	N (2)	100	0	
7/14/2022 8:00	17.1	5	10	NE (43)	100	0	0.8
7/14/2022 9:00	19.4	7	13	NNW (339)	85	0	
7/14/2022 10:00	21.1	9	17	NNE (16)	59	0	
7/14/2022 11:00	22.2	12	26	WNW (302)	51	0	
7/14/2022 12:00	23	14	26	N (0)	46	0	
7/14/2022 13:00	23.3	16	26	NNW (331)	48	0	
7/14/2022 14:00	23.4	14	29	N (354)	48	0	
7/14/2022 15:00	23.9	14	29	N (3)	40	0	
7/14/2022 16:00	24.1	13	24	NW (326)	37	0	
7/14/2022 17:00	24	10	22	N (354)	38	0	
7/14/2022 18:00	23.7	10	18	N (353)	37	0	
7/14/2022 19:00	22.9	10	16	NNE (17)	39	0	
7/14/2022 20:00	21.2	8	14	N (6)	48	0	
7/14/2022 21:00	18.9	3	6	ENE (61)	57	0	
7/14/2022 22:00	17.2	3	4	E (82)	63	0	
7/14/2022 23:00	16.6	4	7	ENE (76)	63	0	
7/15/2022 0:00	15.9	2	3	ESE (104)	65	0	
7/15/2022 1:00	15	2	3	E (90)	72	0	
7/15/2022 2:00	14.1	2	4	SSE (156)	75	0	
7/15/2022 3:00	13.7	0	3	ESE (117)	79	0	
7/15/2022 4:00	13.6	4	6	SSW (206)	77	0	
7/15/2022 5:00	13.2	1	5	NNE (32)	77	0	
7/15/2022 6:00	13.1	2	6	ESE (115)	81	0	
7/15/2022 7:00	15.8	7	13	ESE (115)	71	0	
7/15/2022 8:00	19.2	12	16	ESE (110)	58	0	0
7/15/2022 9:00	21.5	8	13	SSE (157)	48	0	
7/15/2022 10:00	23	8	16	SSW (194)	46	0	
7/15/2022 11:00	24.4	8	19	SSE (158)	46	0	
7/15/2022 12:00	25	9	19	WSW (244)	44	0	
7/15/2022 13:00	25.6	8	18	WSW (244)	41	0	
7/15/2022 14:00	26.4	10	21	SW (232)	38	0	
7/15/2022 15:00	26.9	11	22	SSE (156)	38	0	
7/15/2022 16:00	25.8	17	26	S (182)	44	0	
7/15/2022 17:00	25	20	32	S (175)	44	0	
7/15/2022 18:00	24.6	16	30	S (188)	42	0	
7/15/2022 19:00	23.9	12	20	SSE (152)	43	0	
7/15/2022 20:00	22.8	8	12	SSE (160)	46	0	
7/15/2022 21:00	21.9	9	13	SE (144)	55	0	
7/15/2022 22:00	21.2	10	15	SE (141)	56	0	
7/15/2022 23:00	20.4	10	15	SE (135)	61	0	
7/16/2022 0:00	20	7	14	SSE (148)	67	0	
7/16/2022 1:00	19.4	4	8	NNE (14)	72	0	
7/16/2022 2:00	18.6	2	10	NNW (334)	75	0	
7/16/2022 3:00	18.4	2	6	WNW (285)	77	0	
7/16/2022 4:00	18.4	4	7	NE (38)	76	0	
7/16/2022 5:00	18.2	5	10	N (8)	74	0	
7/16/2022 6:00	18.6	5	10	ENE (73)	75	0	
7/16/2022 7:00	19.4	6	11	E (90)	80	0	
7/16/2022 8:00	21.1	9	15	SSE (158)	76	0	0
7/16/2022 9:00	22.7	6	16	SE (131)	64	0	
7/16/2022 10:00	23.8	8	20	SSE (150)	56	0	
7/16/2022 11:00	24.8	9	23	S (177)	54	0	
7/16/2022 12:00	25.9	11	25	S (188)	51	0	
7/16/2022 13:00	26.5	12	24	S (185)	46	0	
7/16/2022 14:00	27.2	15	27	SE (128)	44	0	
7/16/2022 15:00	27.3	15	27	ESE (119)	43	0	
7/16/2022 16:00	26.8	13	25	S (174)	48	0	
7/16/2022 17:00	26.8	11	23	SSE (152)	49	0	
7/16/2022 18:00	26.6	10	19	E (88)	53	0	
7/16/2022 19:00	25.9	10	17	ESE (105)	57	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/16/2022 20:00	24.6	11	15	ESE (123)	65	0	
7/16/2022 21:00	22.7	5	13	ESE (123)	73	0	
7/16/2022 22:00	21.6	7	13	SE (125)	81	0	
7/16/2022 23:00	20.6	5	11	SSE (165)	84	0	
7/17/2022 0:00	19.8	3	7	ENE (68)	97	0	
7/17/2022 1:00	18.9	2	5	ESE (103)	100	0	
7/17/2022 2:00	18	3	10	SE (124)	100	0	
7/17/2022 3:00	18	8	10	ESE (105)	100	0	
7/17/2022 4:00	17.9	8	11	E (100)	100	0	
7/17/2022 5:00	17.8	6	8	E (94)	100	0	
7/17/2022 6:00	17.3	5	8	ENE (58)	100	0	
7/17/2022 7:00	19.4	10	16	E (101)	100	0	
7/17/2022 8:00	20.7	11	17	E (85)	84	0	0
7/17/2022 9:00	22.6	11	17	SE (127)	83	0	
7/17/2022 10:00	24.8	14	24	ESE (106)	78	0	
7/17/2022 11:00	26.1	16	24	SE (132)	68	0	
7/17/2022 12:00	26.7	18	29	S (174)	64	0	
7/17/2022 13:00	26.8	20	32	SE (140)	61	0	
7/17/2022 14:00	26.7	27	38	SE (139)	62	0	
7/17/2022 15:00	25.8	21	32	SSE (155)	65	0	
7/17/2022 16:00	25.8	15	22	ESE (119)	62	0	
7/17/2022 17:00	25.1	17	28	SE (145)	70	0	
7/17/2022 18:00	24.9	14	21	S (186)	66	0	
7/17/2022 19:00	24.5	15	23	SE (137)	70	0	
7/17/2022 20:00	23.1	17	29	SE (141)	78	0	
7/17/2022 21:00	22	17	25	ESE (107)	89	0	
7/17/2022 22:00	21.1	15	21	E (85)	100	0	
7/17/2022 23:00	20.6	15	21	ESE (102)	100	0.8	
7/18/2022 0:00	20.1	12	17	E (80)	100	3	
7/18/2022 1:00	19.9	12	18	ENE (74)	100	0.4	
7/18/2022 2:00	19.8	9	13	NE (41)	100	1	
7/18/2022 3:00	19.6	8	14	N (11)	100	0.6	
7/18/2022 4:00	19.5	10	17	NE (34)	100	0.4	
7/18/2022 5:00	19.6	10	17	NNW (332)	100	0.2	
7/18/2022 6:00	19.6	7	13	NW (313)	100	0.2	
7/18/2022 7:00	19.8	7	16	NNW (330)	100	0.2	
7/18/2022 8:00	20	10	18	NNW (334)	100	0.4	7.2
7/18/2022 9:00	20.5	14	20	WNW (301)	100	0.2	
7/18/2022 10:00	21.4	18	25	NW (319)	100	0	
7/18/2022 11:00	22.2	18	28	WNW (303)	99	0	
7/18/2022 12:00	23.1	17	26	WNW (301)	94	0	
7/18/2022 13:00	24.1	19	30	NW (325)	86	0	
7/18/2022 14:00	25.5	17	26	WNW (290)	73	0	
7/18/2022 15:00	26.7	17	27	NW (309)	63	0	
7/18/2022 16:00	27.4	17	25	NW (319)	54	0	
7/18/2022 17:00	27.5	15	23	NW (321)	54	0	
7/18/2022 18:00	27.2	10	19	WNW (299)	56	0	
7/18/2022 19:00	26.9	6	14	WNW (302)	56	0	
7/18/2022 20:00	26.2	2	4	SW (227)	64	0	
7/18/2022 21:00	24.4	5	8	S (171)	70	0	
7/18/2022 22:00	23.2	6	11	SSE (163)	74	0	
7/18/2022 23:00	22.5	9	12	SSW (213)	77	0	
7/19/2022 0:00	21.7	8	12	SW (220)	81	0	
7/19/2022 1:00	21.3	10	14	SW (228)	78	0	
7/19/2022 2:00	20.8	10	14	SW (224)	78	0	
7/19/2022 3:00	20.4	8	13	SW (228)	81	0	
7/19/2022 4:00	20	8	11	SW (225)	84	0	
7/19/2022 5:00	19.7	9	14	SW (227)	85	0	
7/19/2022 6:00	20.2	10	14	SSW (210)	83	0	
7/19/2022 7:00	21.2	11	17	SW (223)	79	0	
7/19/2022 8:00	22.8	12	19	SW (234)	74	0	0.2
7/19/2022 9:00	24.4	10	18	SW (223)	74	0	
7/19/2022 10:00	27	12	20	W (261)	68	0	
7/19/2022 11:00	29.4	12	20	WSW (257)	63	0	
7/19/2022 12:00	31	16	29	W (266)	58	0	
7/19/2022 13:00	32.1	18	31	W (266)	54	0	
7/19/2022 14:00	32.5	22	34	WNW (300)	50	0	
7/19/2022 15:00	32.7	19	35	NW (310)	49	0	
7/19/2022 16:00	31.6	19	36	SW (229)	53	0	
7/19/2022 17:00	31.4	14	25	SSW (203)	49	0	
7/19/2022 18:00	27.1	19	38	SW (233)	75	0	
7/19/2022 19:00	22.4	23	41	NW (308)	84	2	
7/19/2022 20:00	21.1	14	31	ENE (63)	100	17.2	
7/19/2022 21:00	21	22	29	SE (133)	100	0.2	
7/19/2022 22:00	21.4	21	29	SE (128)	100	0	
7/19/2022 23:00	21.5	16	20	SE (144)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/20/2022 0:00	22	14	19	S (169)	100	0	
7/20/2022 1:00	22.6	11	20	SSW (209)	100	0	
7/20/2022 2:00	22.9	10	18	SSW (201)	90	0	
7/20/2022 3:00	22.5	10	16	SSW (204)	88	0	
7/20/2022 4:00	22.1	10	15	SSE (167)	100	0	
7/20/2022 5:00	21.6	11	17	SSE (166)	100	0	
7/20/2022 6:00	22.4	13	20	SSE (155)	96	0	
7/20/2022 7:00	23.3	15	27	SSW (197)	83	0	
7/20/2022 8:00	24	13	23	SSW (200)	83	0	19.4
7/20/2022 9:00	24.9	14	28	SSE (162)	83	0	
7/20/2022 10:00	25.9	17	31	SSW (204)	81	0	
7/20/2022 11:00	26.5	17	33	S (180)	79	0.2	
7/20/2022 12:00	27.8	21	39	S (184)	69	0	
7/20/2022 13:00	28.3	23	45	S (190)	68	0	
7/20/2022 14:00	29.2	28	48	S (174)	66	0	
7/20/2022 15:00	29.5	32	55	SW (225)	59	0	
7/20/2022 16:00	29.1	29	50	SSW (204)	61	0	
7/20/2022 17:00	29.2	27	53	SSW (207)	63	0	
7/20/2022 18:00	28.4	22	47	WSW (256)	74	0.2	
7/20/2022 19:00	24.5	15	32	W (262)	100	2.8	
7/20/2022 20:00	25	7	16	WSW (240)	90	0	
7/20/2022 21:00	24.4	8	14	SW (233)	86	0	
7/20/2022 22:00	22.9	8	14	WSW (245)	80	0	
7/20/2022 23:00	22.6	10	15	WSW (245)	77	0	
7/21/2022 0:00	22.2	12	18	WSW (242)	77	0	
7/21/2022 1:00	21.5	8	13	SSW (201)	81	0	
7/21/2022 2:00	21.5	9	13	SW (223)	82	0	
7/21/2022 3:00	21.4	12	23	SW (234)	84	0	
7/21/2022 4:00	20.9	12	19	SW (226)	86	0	
7/21/2022 5:00	20.5	11	17	SW (234)	90	0	
7/21/2022 6:00	20.2	13	18	SW (226)	96	0	
7/21/2022 7:00	20.8	14	21	SW (233)	95	0	
7/21/2022 8:00	22	15	23	W (272)	88	0	3.2
7/21/2022 9:00	23.9	16	27	W (278)	79	0	
7/21/2022 10:00	25.4	17	30	W (264)	73	0	
7/21/2022 11:00	26.6	21	34	WNW (286)	65	0	
7/21/2022 12:00	27.3	22	34	NW (306)	59	0	
7/21/2022 13:00	28	23	35	WNW (294)	57	0	
7/21/2022 14:00	28.5	21	37	WNW (293)	51	0	
7/21/2022 15:00	28.9	20	33	WNW (298)	47	0	
7/21/2022 16:00	29.5	16	27	WNW (282)	45	0	
7/21/2022 17:00	29.7	15	26	W (279)	45	0	
7/21/2022 18:00	29.8	12	23	W (264)	43	0	
7/21/2022 19:00	29.2	10	19	W (266)	46	0	
7/21/2022 20:00	26.9	8	11	NW (313)	59	0	
7/21/2022 21:00	24.3	8	13	WSW (246)	60	0	
7/21/2022 22:00	23.2	7	12	WSW (252)	58	0	
7/21/2022 23:00	22.1	6	9	SW (221)	56	0	
7/22/2022 0:00	21.9	5	7	WSW (250)	64	0	
7/22/2022 1:00	20.9	1	3	ENE (70)	74	0	
7/22/2022 2:00	20.6	2	5	WSW (248)	75	0	
7/22/2022 3:00	19.9	2	6	SW (228)	80	0	
7/22/2022 4:00	19.9	2	6	NNE (24)	84	0	
7/22/2022 5:00	18.9	2	7	WSW (242)	93	0	
7/22/2022 6:00	19.6	1	4	SSW (195)	90	0	
7/22/2022 7:00	21	4	9	SW (222)	89	0	
7/22/2022 8:00	22.4	8	13	WNW (290)	85	0	0
7/22/2022 9:00	24.1	7	14	WSW (250)	77	0	
7/22/2022 10:00	25.8	6	15	W (279)	71	0	
7/22/2022 11:00	27.1	10	20	WSW (238)	63	0	
7/22/2022 12:00	28.4	16	30	W (262)	60	0	
7/22/2022 13:00	28.8	19	31	WNW (303)	46	0	
7/22/2022 14:00	28.9	22	32	WNW (290)	42	0	
7/22/2022 15:00	28.9	19	32	NW (312)	41	0	
7/22/2022 16:00	29.2	17	27	NW (305)	40	0	
7/22/2022 17:00	29.5	10	21	WSW (243)	40	0	
7/22/2022 18:00	29.8	7	14	W (272)	41	0	
7/22/2022 19:00	29.6	10	17	WSW (241)	41	0	
7/22/2022 20:00	27.8	8	14	SW (220)	47	0	
7/22/2022 21:00	25.6	8	16	SSW (197)	59	0	
7/22/2022 22:00	24.3	9	16	SW (221)	64	0	
7/22/2022 23:00	23.7	12	17	SW (228)	65	0	
7/23/2022 0:00	23.2	10	15	SW (224)	66	0	
7/23/2022 1:00	22.6	8	14	SW (222)	70	0	
7/23/2022 2:00	22.1	8	14	SSW (207)	73	0	
7/23/2022 3:00	22	7	14	SSW (193)	76	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/23/2022 4:00	21.5	10	17	SSW (206)	80	0	
7/23/2022 5:00	21.1	11	17	SW (227)	83	0	
7/23/2022 6:00	21.4	9	19	S (188)	83	0	
7/23/2022 7:00	22.3	10	18	SW (216)	77	0	
7/23/2022 8:00	22.7	6	12	SSE (168)	80	0	0
7/23/2022 9:00	22	7	13	S (189)	87	0.2	
7/23/2022 10:00	23.2	10	19	SW (219)	86	0	
7/23/2022 11:00	26	15	27	SSW (213)	75	0	
7/23/2022 12:00	27.1	18	27	SW (236)	69	0	
7/23/2022 13:00	27.8	18	28	SW (218)	65	0	
7/23/2022 14:00	27.9	17	29	SW (234)	62	0	
7/23/2022 15:00	29	18	27	SW (232)	60	0	
7/23/2022 16:00	29.6	10	20	WSW (237)	54	0	
7/23/2022 17:00	29.9	9	17	SSE (164)	56	0	
7/23/2022 18:00	29.8	12	24	SSW (196)	53	0	
7/23/2022 19:00	27.9	14	24	S (170)	59	0	
7/23/2022 20:00	26.4	10	17	SSW (193)	67	0	
7/23/2022 21:00	24.6	10	19	SSE (167)	80	0	
7/23/2022 22:00	22.7	11	20	SSW (201)	83	0	
7/23/2022 23:00	21.8	10	16	S (191)	86	0	
7/24/2022 0:00	22	11	19	SSW (198)	84	0	
7/24/2022 1:00	21.5	8	18	SSW (206)	89	0	
7/24/2022 2:00	21.9	14	24	S (184)	90	0	
7/24/2022 3:00	23	18	29	S (190)	83	0	
7/24/2022 4:00	22.5	19	32	SW (234)	84	0	
7/24/2022 5:00	22.8	17	32	W (272)	84	0	
7/24/2022 6:00	21.7	21	38	W (263)	100	7	
7/24/2022 7:00	20.2	7	16	ESE (122)	100	1	
7/24/2022 8:00	20.6	4	10	S (175)	100	0.2	8.4
7/24/2022 9:00	21.3	9	15	WSW (249)	100	0	
7/24/2022 10:00	22.1	10	18	S (169)	100	0	
7/24/2022 11:00	22.6	13	21	S (180)	100	0	
7/24/2022 12:00	24.3	15	29	SW (216)	100	0	
7/24/2022 13:00	26.2	16	31	SSW (196)	79	0	
7/24/2022 14:00	27	18	31	S (188)	75	0	
7/24/2022 15:00	28	20	38	SSW (210)	70	0	
7/24/2022 16:00	27.9	25	41	SW (227)	71	0	
7/24/2022 17:00	27.9	21	39	SW (223)	69	0	
7/24/2022 18:00	27.8	19	32	SW (234)	69	0	
7/24/2022 19:00	27.4	24	38	WSW (252)	66	0	
7/24/2022 20:00	26.1	24	40	WSW (240)	71	0	
7/24/2022 21:00	23.9	18	35	WSW (248)	100	1	
7/24/2022 22:00	22.8	13	19	WSW (252)	100	0	
7/24/2022 23:00	22.3	13	21	W (267)	100	0	
7/25/2022 0:00	21.9	12	21	WNW (295)	100	0	
7/25/2022 1:00	21.1	10	17	NW (318)	100	0	
7/25/2022 2:00	19.4	5	8	W (274)	100	0	
7/25/2022 3:00	18.5	3	6	N (351)	100	0	
7/25/2022 4:00	18.4	3	8	N (6)	100	0	
7/25/2022 5:00	18.8	6	14	NW (306)	100	0	
7/25/2022 6:00	18.5	9	24	NW (307)	100	0	
7/25/2022 7:00	17.8	17	24	NW (316)	88	0	
7/25/2022 8:00	18.2	20	31	WNW (303)	70	0	1
7/25/2022 9:00	18.4	22	34	NNW (330)	64	0	
7/25/2022 10:00	18.7	19	30	NW (312)	64	0	
7/25/2022 11:00	19.1	19	32	NW (325)	63	0	
7/25/2022 12:00	19.5	18	30	WNW (301)	62	0	
7/25/2022 13:00	20.2	16	27	WNW (283)	61	0	
7/25/2022 14:00	20.9	17	29	NW (308)	58	0	
7/25/2022 15:00	21.6	15	25	NW (313)	57	0	
7/25/2022 16:00	21.8	16	33	NW (318)	55	0	
7/25/2022 17:00	21.7	11	20	WNW (284)	56	0	
7/25/2022 18:00	21.7	8	19	NNE (21)	56	0	
7/25/2022 19:00	21.6	6	13	NE (36)	57	0	
7/25/2022 20:00	20.8	3	7	NE (49)	65	0	
7/25/2022 21:00	19.5	2	5	ESE (116)	74	0	
7/25/2022 22:00	18.5	3	6	E (101)	78	0	
7/25/2022 23:00	18.1	5	13	SE (142)	75	0	
7/26/2022 0:00	18.1	5	13	WNW (288)	77	0	
7/26/2022 1:00	16.8	2	6	SW (223)	80	0	
7/26/2022 2:00	16.2	0	3	ESE (111)	85	0	
7/26/2022 3:00	16.2	1	3	N (0)	92	0	
7/26/2022 4:00	15.4	1	4	SE (133)	92	0	
7/26/2022 5:00	15.6	2	6	ESE (120)	87	0	
7/26/2022 6:00	15.2	1	5	SW (218)	87	0	
7/26/2022 7:00	15.9	1	5	S (170)	87	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/26/2022 8:00	18.9	4	7	WSW (248)	77	0	0
7/26/2022 9:00	20.2	5	8	WSW (246)	72	0	
7/26/2022 10:00	21.4	4	8	S (174)	65	0	
7/26/2022 11:00	22.9	4	15	SSE (158)	54	0	
7/26/2022 12:00	22.9	6	13	NNW (344)	54	0	
7/26/2022 13:00	23.4	6	14	WSW (246)	55	0	
7/26/2022 14:00	24.1	6	13	W (271)	51	0	
7/26/2022 15:00	24.2	6	13	W (259)	51	0	
7/26/2022 16:00	25.2	6	15	NW (309)	49	0	
7/26/2022 17:00	25.4	6	21	N (8)	50	0	
7/26/2022 18:00	24.8	9	17	NNW (347)	51	0	
7/26/2022 19:00	24.2	9	17	NE (52)	53	0	
7/26/2022 20:00	22.8	7	10	E (87)	60	0	
7/26/2022 21:00	21.4	7	10	SE (132)	73	0	
7/26/2022 22:00	20.5	7	11	ESE (118)	80	0	
7/26/2022 23:00	19.8	8	13	SSE (152)	78	0	
7/27/2022 0:00	19.7	8	11	SE (138)	76	0	
7/27/2022 1:00	19.6	6	10	SSE (159)	77	0	
7/27/2022 2:00	19.4	9	13	SSE (162)	72	0	
7/27/2022 3:00	19.4	10	13	SSE (161)	71	0	
7/27/2022 4:00	18.9	10	13	SSE (167)	72	0	
7/27/2022 5:00	18.4	11	14	SSE (165)	74	0	
7/27/2022 6:00	18.3	10	14	SSE (155)	76	0	
7/27/2022 7:00	18.8	9	14	SSE (151)	79	0	
7/27/2022 8:00	20.5	11	17	S (173)	79	0	0
7/27/2022 9:00	22.7	13	23	SW (223)	77	0	
7/27/2022 10:00	23.3	13	20	SW (227)	75	0	
7/27/2022 11:00	24.4	9	16	S (179)	70	0	
7/27/2022 12:00	24.3	15	26	SSE (160)	79	0	
7/27/2022 13:00	21.4	15	32	SSE (161)	100	1.6	
7/27/2022 14:00	22.4	11	19	S (176)	100	0	
7/27/2022 15:00	23.7	11	21	SSW (208)	89	0	
7/27/2022 16:00	23.1	13	23	S (173)	87	0	
7/27/2022 17:00	23.5	12	21	S (181)	84	0	
7/27/2022 18:00	23.9	11	21	SW (221)	80	0	
7/27/2022 19:00	24.4	10	16	SW (227)	77	0	
7/27/2022 20:00	23.5	7	12	S (182)	83	0	
7/27/2022 21:00	22.5	7	10	S (169)	86	0	
7/27/2022 22:00	22.3	7	11	S (175)	91	0	
7/27/2022 23:00	22.5	9	17	SW (217)	93	0	
7/28/2022 0:00	21.8	8	15	SSW (207)	100	0	
7/28/2022 1:00	21.5	8	13	SW (226)	100	0	
7/28/2022 2:00	21.2	7	13	SSW (202)	100	0	
7/28/2022 3:00	20.6	6	9	SSE (166)	100	0	
7/28/2022 4:00	20.6	6	10	SW (214)	100	0	
7/28/2022 5:00	20.3	6	12	SW (230)	100	0	
7/28/2022 6:00	19.7	5	9	WSW (239)	100	0	
7/28/2022 7:00	20.1	5	10	SW (228)	100	0	
7/28/2022 8:00	21.8	10	17	SW (230)	100	0	1.6
7/28/2022 9:00	23.7	17	27	WSW (247)	89	0	
7/28/2022 10:00	25.2	20	31	SW (233)	67	0	
7/28/2022 11:00	24.2	16	35	W (273)	67	0	
7/28/2022 12:00	25.2	16	36	SW (224)	66	0	
7/28/2022 13:00	25.9	24	42	W (270)	59	0	
7/28/2022 14:00	26.6	25	40	W (261)	55	0	
7/28/2022 15:00	27.2	26	43	W (272)	54	0	
7/28/2022 16:00	26.1	24	38	WNW (283)	52	0	
7/28/2022 17:00	26.4	22	38	WNW (293)	44	0	
7/28/2022 18:00	26.4	19	36	WNW (282)	44	0	
7/28/2022 19:00	25.3	14	25	W (260)	48	0	
7/28/2022 20:00	23.7	11	20	WNW (282)	59	0	
7/28/2022 21:00	21.5	10	17	W (265)	65	0	
7/28/2022 22:00	20.1	11	17	WSW (254)	64	0	
7/28/2022 23:00	19.6	11	19	W (278)	65	0	
7/29/2022 0:00	19.5	12	21	W (268)	69	0	
7/29/2022 1:00	17.4	7	12	WSW (250)	75	0	
7/29/2022 2:00	16.4	8	10	SW (233)	78	0	
7/29/2022 3:00	16.2	7	10	SW (235)	80	0	
7/29/2022 4:00	15.2	5	7	SW (225)	86	0	
7/29/2022 5:00	15	6	9	SW (225)	86	0	
7/29/2022 6:00	14.9	7	9	SW (230)	86	0	
7/29/2022 7:00	15.9	7	9	WSW (241)	81	0	
7/29/2022 8:00	18	8	14	W (273)	80	0	0
7/29/2022 9:00	20.4	11	19	WSW (245)	75	0	
7/29/2022 10:00	22.3	12	24	WSW (251)	61	0	
7/29/2022 11:00	23.4	15	27	W (264)	52	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/29/2022 12:00	24.3	15	27	W (274)	48	0	
7/29/2022 13:00	24.6	14	27	W (266)	47	0	
7/29/2022 14:00	24.8	14	25	WSW (237)	48	0	
7/29/2022 15:00	25.2	15	33	WNW (294)	46	0	
7/29/2022 16:00	24.7	15	24	NW (317)	46	0	
7/29/2022 17:00	25.2	16	28	NW (309)	45	0	
7/29/2022 18:00	24.8	13	24	NNW (335)	49	0	
7/29/2022 19:00	24.3	13	22	NW (307)	51	0	
7/29/2022 20:00	22.9	7	13	NW (312)	61	0	
7/29/2022 21:00	20.9	6	9	WNW (294)	68	0	
7/29/2022 22:00	19.8	12	20	NW (315)	79	0	
7/29/2022 23:00	19.7	4	11	WNW (288)	79	0	
7/30/2022 0:00	18.9	6	15	WNW (286)	80	0	
7/30/2022 1:00	18	7	13	NNE (28)	86	0	
7/30/2022 2:00	16.8	4	7	NE (56)	88	0	
7/30/2022 3:00	16	2	5	SSW (209)	96	0	
7/30/2022 4:00	15.7	3	9	SSW (203)	100	0	
7/30/2022 5:00	15.3	5	9	WSW (244)	100	0	
7/30/2022 6:00	15.8	3	8	W (262)	100	0	
7/30/2022 7:00	16.5	8	12	WNW (297)	100	0	
7/30/2022 8:00	19	13	24	WNW (300)	100	0	0
7/30/2022 9:00	20.1	15	23	WNW (300)	77	0	
7/30/2022 10:00	20.8	16	24	NW (315)	66	0	
7/30/2022 11:00	21.5	16	25	WNW (282)	61	0	
7/30/2022 12:00	21.8	16	28	WNW (291)	59	0	
7/30/2022 13:00	22.5	12	23	N (353)	62	0	
7/30/2022 14:00	23.7	11	23	NW (326)	58	0	
7/30/2022 15:00	24.4	8	24	NW (309)	55	0	
7/30/2022 16:00	25.3	9	18	WSW (238)	54	0	
7/30/2022 17:00	25.5	7	17	W (278)	53	0	
7/30/2022 18:00	25.7	6	14	SW (235)	52	0	
7/30/2022 19:00	25.5	7	17	SSE (157)	53	0	
7/30/2022 20:00	23.7	12	17	SE (145)	69	0	
7/30/2022 21:00	21.8	12	17	SSE (153)	72	0	
7/30/2022 22:00	20.6	12	16	S (169)	75	0	
7/30/2022 23:00	19.8	12	16	SSE (153)	77	0	
7/31/2022 0:00	19.2	12	16	SSE (158)	80	0	
7/31/2022 1:00	18.7	11	17	S (174)	82	0	
7/31/2022 2:00	18.3	10	13	SSE (168)	85	0	
7/31/2022 3:00	18.2	10	14	S (171)	86	0	
7/31/2022 4:00	17.8	9	12	SSE (168)	90	0	
7/31/2022 5:00	18	9	12	SSE (168)	92	0	
7/31/2022 6:00	18.5	9	12	SSE (164)	89	0	
7/31/2022 7:00	19.3	5	12	S (169)	85	0	
7/31/2022 8:00	21.2	5	12	S (171)	84	0	0
7/31/2022 9:00	22.7	8	17	SW (234)	74	0	
7/31/2022 10:00	23.9	9	15	S (171)	66	0	
7/31/2022 11:00	25.1	7	14	S (174)	64	0	
7/31/2022 12:00	26.1	11	20	S (169)	54	0	
7/31/2022 13:00	26.8	12	24	SW (215)	51	0	
7/31/2022 14:00	27.5	12	25	SSE (150)	49	0	
7/31/2022 15:00	27.8	15	28	SSW (208)	49	0	
7/31/2022 16:00	27.4	17	28	SW (228)	50	0	
7/31/2022 17:00	26.9	17	30	S (172)	49	0	
7/31/2022 18:00	26.9	16	29	SSW (201)	48	0	
7/31/2022 19:00	26.3	14	21	S (183)	49	0	
7/31/2022 20:00	24.8	11	21	SSE (150)	56	0	
7/31/2022 21:00	22.8	10	14	SE (141)	65	0	
7/31/2022 22:00	21.4	12	15	SE (133)	71	0	
7/31/2022 23:00	20.3	11	16	SSE (166)	74	0	
8/1/2022 0:00	19.6	9	12	SSE (154)	80	0	
8/1/2022 1:00	19.5	11	15	SSE (168)	86	0	
8/1/2022 2:00	19.4	11	16	S (174)	100	0	
8/1/2022 3:00	19.2	11	17	S (173)	100	0	
8/1/2022 4:00	19.9	9	16	SSW (199)	100	0	
8/1/2022 5:00	20.2	9	18	SSW (198)	100	0	
8/1/2022 6:00	20.1	8	15	S (173)	100	0	
8/1/2022 7:00	20.5	9	17	S (182)	100	0	
8/1/2022 8:00	21.9	12	24	S (170)	91	0	0
8/1/2022 9:00	23.3	15	27	SSW (211)	78	0	
8/1/2022 10:00	24.2	15	26	SW (226)	75	0	
8/1/2022 11:00	25.3	18	34	S (181)	69	0	
8/1/2022 12:00	26.5	21	39	SSW (199)	63	0	
8/1/2022 13:00	26.7	21	37	S (189)	66	0	
8/1/2022 14:00	26	21	41	SSE (166)	70	0	
8/1/2022 15:00	24.5	18	33	SE (145)	98	0.8	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/1/2022 16:00	24.6	18	33	SSW (203)	90	0	
8/1/2022 17:00	27	22	36	SW (219)	77	0	
8/1/2022 18:00	25.5	22	61	WSW (252)	100	17.6	
8/1/2022 19:00	23.4	13	38	NW (305)	100	4.4	
8/1/2022 20:00	23.7	8	15	WNW (303)	100	0	
8/1/2022 21:00	23.2	10	18	WNW (296)	100	0	
8/1/2022 22:00	22.7	11	21	W (280)	100	0	
8/1/2022 23:00	22.6	13	21	W (281)	91	0	
8/2/2022 0:00	21.6	13	25	N (349)	97	0	
8/2/2022 1:00	20.6	10	21	N (4)	100	0	
8/2/2022 2:00	19.7	9	17	NW (315)	100	0	
8/2/2022 3:00	19.4	6	15	W (260)	100	0	
8/2/2022 4:00	19	12	21	WNW (292)	100	0	
8/2/2022 5:00	18.4	9	15	WNW (288)	100	0	
8/2/2022 6:00	17.7	8	16	W (273)	100	0	
8/2/2022 7:00	18	10	19	NW (310)	100	0	
8/2/2022 8:00	18.1	13	22	WNW (298)	98	0	22.8
8/2/2022 9:00	18.8	17	26	NW (308)	90	0	
8/2/2022 10:00	18.9	16	23	W (280)	83	0	
8/2/2022 11:00	18.8	15	23	W (278)	89	0	
8/2/2022 12:00	19.8	13	22	NW (323)	82	0	
8/2/2022 13:00	20.8	15	26	WNW (298)	75	0	
8/2/2022 14:00	21.2	16	26	WNW (298)	73	0	
8/2/2022 15:00	22.2	13	21	NW (304)	70	0	
8/2/2022 16:00	22.5	11	20	N (0)	64	0	
8/2/2022 17:00	22.8	10	19	NNW (345)	64	0	
8/2/2022 18:00	22.8	8	17	N (349)	64	0	
8/2/2022 19:00	22.2	7	15	NE (34)	65	0	
8/2/2022 20:00	21.2	5	8	E (83)	78	0	
8/2/2022 21:00	19.2	5	8	E (92)	81	0	
8/2/2022 22:00	18.3	3	6	ENE (63)	86	0	
8/2/2022 23:00	17.2	6	11	SE (133)	92	0	
8/3/2022 0:00	17.2	12	14	SE (125)	88	0	
8/3/2022 1:00	17	14	19	SE (127)	87	0	
8/3/2022 2:00	16.6	13	19	SSE (154)	91	0	
8/3/2022 3:00	16.7	11	18	SE (135)	88	0	
8/3/2022 4:00	16.6	16	21	SE (140)	94	0	
8/3/2022 5:00	17	16	21	ESE (121)	98	0	
8/3/2022 6:00	17.5	17	24	SE (146)	100	0	
8/3/2022 7:00	19.1	20	29	SSE (153)	88	0	
8/3/2022 8:00	20.5	20	29	SSE (154)	85	0	0
8/3/2022 9:00	22.7	20	28	SSE (164)	84	0	
8/3/2022 10:00	24.8	20	34	SSE (149)	80	0	
8/3/2022 11:00	26.2	19	38	S (172)	73	0	
8/3/2022 12:00	26.7	20	32	S (173)	67	0	
8/3/2022 13:00	27.6	23	37	S (169)	63	0	
8/3/2022 14:00	28.8	22	39	SW (226)	66	0	
8/3/2022 15:00	30	22	40	SSW (199)	65	0	
8/3/2022 16:00	30.4	22	43	S (187)	65	0	
8/3/2022 17:00	28.6	20	50	WNW (299)	87	0	
8/3/2022 18:00	21.1	14	38	E (88)	100	8.8	
8/3/2022 19:00	21	14	22	SE (133)	100	12.4	
8/3/2022 20:00	20.6	19	26	SE (142)	100	2.2	
8/3/2022 21:00	20.6	17	25	SSE (158)	100	1.6	
8/3/2022 22:00	20.7	14	21	S (177)	100	0.4	
8/3/2022 23:00	20.7	14	23	SSE (158)	100	0	
8/4/2022 0:00	20.7	20	27	SSE (165)	100	0	
8/4/2022 1:00	20.9	14	25	S (170)	100	0	
8/4/2022 2:00	21.1	11	20	S (186)	100	0.2	
8/4/2022 3:00	21.3	10	18	SW (215)	100	0.4	
8/4/2022 4:00	21.5	9	15	S (177)	100	0	
8/4/2022 5:00	21.6	9	16	S (170)	100	0	
8/4/2022 6:00	21.5	8	15	SSE (164)	100	0	
8/4/2022 7:00	21.8	8	15	SW (226)	100	0	
8/4/2022 8:00	22.4	8	14	SW (236)	100	0	26
8/4/2022 9:00	23.2	10	17	SW (224)	100	0	
8/4/2022 10:00	23.6	10	15	SW (235)	100	0	
8/4/2022 11:00	24	9	15	SSW (205)	100	0	
8/4/2022 12:00	24.6	11	17	SSW (202)	100	0.2	
8/4/2022 13:00	23.8	11	20	WSW (238)	100	0.6	
8/4/2022 14:00	24.3	8	12	WSW (254)	100	0	
8/4/2022 15:00	24.5	9	14	WSW (244)	100	0	
8/4/2022 16:00	25.3	7	12	WSW (243)	100	0	
8/4/2022 17:00	25.6	7	11	SW (232)	94	0	
8/4/2022 18:00	25.8	5	12	SW (234)	93	0	
8/4/2022 19:00	25.7	4	10	SSW (212)	96	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/4/2022 20:00	24.9	3	8	N (350)	100	0	
8/4/2022 21:00	23.4	5	9	NE (56)	100	0	
8/4/2022 22:00	22.9	7	13	NE (38)	100	0	
8/4/2022 23:00	22.8	4	12	NNE (32)	100	0	
8/5/2022 0:00	22.4	4	9	NE (50)	100	0.2	
8/5/2022 1:00	22.2	2	8	SW (219)	100	0	
8/5/2022 2:00	22.2	3	8	ENE (70)	100	0	
8/5/2022 3:00	21.6	6	10	ENE (70)	100	0	
8/5/2022 4:00	-30.5	5	11	E (90)	100	0	
8/5/2022 5:00	-79.3	6	9	ENE (64)	1	0	
8/5/2022 6:00	-79.3	5	10	ENE (73)	1	0	
8/5/2022 7:00	9.2	9	14	E (83)	100	0.2	
8/5/2022 8:00	22.4	9	13	E (93)	100	0	1.2
8/5/2022 9:00	24	2	7	NW (321)	100	0	
8/5/2022 10:00	25.8	6	12	ESE (114)	100	0	
8/5/2022 11:00	26.6	10	18	ESE (123)	100	0	
8/5/2022 12:00	27.3	12	21	E (99)	89	0	
8/5/2022 13:00	27.6	15	24	SE (137)	91	0	
8/5/2022 14:00	27.8	16	28	ESE (121)	83	0.8	
8/5/2022 15:00	25.3	10	19	S (182)	100	25.4	
8/5/2022 16:00	25.9	10	20	SW (227)	100	0	
8/5/2022 17:00	27.2	7	17	SSW (209)	83	0	
8/5/2022 18:00	26.4	4	8	E (86)	85	0	
8/5/2022 19:00	26.4	8	15	SE (135)	83	0	
8/5/2022 20:00	25.1	11	15	SE (138)	100	0	
8/5/2022 21:00	24	10	15	SE (131)	100	0	
8/5/2022 22:00	23.2	10	15	SSE (150)	100	0	
8/5/2022 23:00	22.8	11	16	SE (133)	100	0	
8/6/2022 0:00	22.7	13	20	SE (144)	100	0	
8/6/2022 1:00	22.7	9	15	SE (140)	100	0	
8/6/2022 2:00	22.3	9	15	SE (135)	100	0	
8/6/2022 3:00	21.8	9	13	SE (130)	100	0	
8/6/2022 4:00	21.6	11	16	ESE (116)	100	0	
8/6/2022 5:00	21.6	9	14	SE (146)	100	0	
8/6/2022 6:00	21.6	8	14	SSE (149)	100	0	
8/6/2022 7:00	0.2	11	16	SSE (168)	100	0	
8/6/2022 8:00	-11.4	11	16	SSE (165)	100	0	26.2
8/6/2022 9:00	24	9	18	SW (227)	100	0	
8/6/2022 10:00	24.9	11	19	SSE (155)	100	0	
8/6/2022 11:00	26.8	15	23	SE (139)	99	0	
8/6/2022 12:00	27.8	12	20	SW (219)	87	0	
8/6/2022 13:00	28.8	12	24	SSW (210)	83	0	
8/6/2022 14:00	29.5	11	19	S (181)	68	0	
8/6/2022 15:00	29	14	27	S (190)	72	0	
8/6/2022 16:00	29.1	15	25	SSW (210)	71	0	
8/6/2022 17:00	28.9	13	22	S (173)	72	0	
8/6/2022 18:00	28.8	14	23	S (178)	71	0	
8/6/2022 19:00	28.4	10	18	S (189)	73	0	
8/6/2022 20:00	27.2	7	11	SSE (150)	81	0	
8/6/2022 21:00	25.9	9	14	SSE (147)	85	0	
8/6/2022 22:00	24.9	13	21	SSE (163)	100	0	
8/6/2022 23:00	23.9	12	17	SSE (163)	100	0	
8/7/2022 0:00	23.4	12	18	SSE (165)	100	0	
8/7/2022 1:00	23.2	11	16	S (178)	100	0	
8/7/2022 2:00	23.5	9	14	SSW (206)	100	0	
8/7/2022 3:00	23.4	8	14	SSW (197)	100	0	
8/7/2022 4:00	23.2	7	13	S (171)	100	0	
8/7/2022 5:00	23.1	7	13	S (177)	100	0	
8/7/2022 6:00	22.8	6	12	SSE (168)	100	0	
8/7/2022 7:00	23.8	7	14	SW (216)	100	0	
8/7/2022 8:00	24.9	11	19	S (170)	100	0	0
8/7/2022 9:00	26.6	11	21	SW (232)	97	0	
8/7/2022 10:00	27.6	13	23	SSW (196)	92	0	
8/7/2022 11:00	28.9	13	22	SW (225)	87	0	
8/7/2022 12:00	29.8	17	28	S (184)	73	0	
8/7/2022 13:00	30.2	17	27	S (188)	69	0	
8/7/2022 14:00	30.4	18	31	SSW (202)	65	0	
8/7/2022 15:00	28.6	11	29	E (80)	79	0	
8/7/2022 16:00	30	13	27	SW (229)	68	0	
8/7/2022 17:00	30	15	25	WSW (244)	72	0	
8/7/2022 18:00	25.3	15	30	WSW (241)	90	0.2	
8/7/2022 19:00	24.9	9	17	WSW (249)	88	0	
8/7/2022 20:00	24.4	8	17	SSE (163)	100	0	
8/7/2022 21:00	23.8	7	13	SW (232)	100	0	
8/7/2022 22:00	23.8	9	15	SSW (198)	100	0	
8/7/2022 23:00	23.4	8	14	SW (218)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/8/2022 0:00	23	7	12	SSW (195)	100	0	
8/8/2022 1:00	22.9	8	13	WSW (240)	100	0	
8/8/2022 2:00	22.7	6	11	SW (227)	100	0	
8/8/2022 3:00	22.9	7	13	SW (220)	100	0	
8/8/2022 4:00	23	5	10	SSW (212)	100	0	
8/8/2022 5:00	23	7	13	SSW (211)	100	0	
8/8/2022 6:00	23.2	10	18	SSW (195)	100	0	
8/8/2022 7:00	23.1	12	21	SSW (206)	100	0	
8/8/2022 8:00	23.3	15	27	SW (225)	100	0	0.2
8/8/2022 9:00	23.8	16	24	SW (227)	100	0	
8/8/2022 10:00	24	18	30	SW (228)	100	0.2	
8/8/2022 11:00	23.4	13	23	S (184)	100	0.4	
8/8/2022 12:00	24.7	16	30	SSW (209)	100	0	
8/8/2022 13:00	25.8	18	28	SSW (210)	99	0	
8/8/2022 14:00	26.3	17	30	SSW (204)	100	2.2	
8/8/2022 15:00	27.5	19	32	WSW (252)	100	0	
8/8/2022 16:00	24	10	36	S (188)	100	0	
8/8/2022 17:00	25.4	8	15	SW (225)	100	0	
8/8/2022 18:00	27	7	14	WSW (254)	100	0	
8/8/2022 19:00	26.5	15	36	NW (314)	100	0.2	
8/8/2022 20:00	20.5	20	34	NNW (347)	100	1.4	
8/8/2022 21:00	19.2	16	27	NNW (328)	100	0	
8/8/2022 22:00	18.8	16	27	NW (318)	100	0	
8/8/2022 23:00	18.4	15	29	NNW (332)	100	0	
8/9/2022 0:00	18.4	12	23	N (4)	100	0	
8/9/2022 1:00	18.1	12	23	NNW (327)	100	0	
8/9/2022 2:00	17.6	14	23	N (4)	100	0	
8/9/2022 3:00	17.6	10	22	NNW (328)	100	0	
8/9/2022 4:00	17.9	10	17	NW (325)	100	0	
8/9/2022 5:00	17.4	8	14	NW (322)	100	0	
8/9/2022 6:00	16.7	5	9	WSW (249)	100	0	
8/9/2022 7:00	17.7	4	10	WNW (296)	100	0	
8/9/2022 8:00	19	8	19	NNW (341)	89	0	4.4
8/9/2022 9:00	19.6	13	21	N (1)	74	0	
8/9/2022 10:00	20.1	14	25	NW (325)	72	0	
8/9/2022 11:00	20.4	13	23	NNW (332)	71	0	
8/9/2022 12:00	20.6	14	28	N (352)	67	0	
8/9/2022 13:00	20.7	14	25	NW (304)	68	0	
8/9/2022 14:00	20.9	15	26	NNW (338)	67	0	
8/9/2022 15:00	20.8	16	28	NW (311)	68	0	
8/9/2022 16:00	20.8	15	25	NNW (335)	66	0	
8/9/2022 17:00	20.6	14	25	NW (309)	63	0	
8/9/2022 18:00	20.3	14	23	NW (311)	62	0	
8/9/2022 19:00	19.5	9	17	NNW (339)	71	0	
8/9/2022 20:00	18.2	4	10	N (3)	82	0	
8/9/2022 21:00	16.6	4	6	W (261)	88	0	
8/9/2022 22:00	15.6	6	7	W (267)	100	0	
8/9/2022 23:00	14.9	4	7	SW (214)	100	0	
8/10/2022 0:00	14.4	2	4	WSW (248)	100	0	
8/10/2022 1:00	14.1	2	7	W (266)	100	0	
8/10/2022 2:00	14.2	2	5	S (170)	100	0	
8/10/2022 3:00	13.6	3	7	SW (225)	100	0	
8/10/2022 4:00	12.7	4	8	SSE (162)	100	0	
8/10/2022 5:00	13	2	6	SE (144)	100	0	
8/10/2022 6:00	13.1	1	3	SSE (162)	100	0	
8/10/2022 7:00	14	1	5	SW (223)	100	0	
8/10/2022 8:00	15.9	3	6	S (189)	100	0	0
8/10/2022 9:00	18.8	3	6	W (276)	97	0	
8/10/2022 10:00	20.8	4	10	WNW (300)	76	0	
8/10/2022 11:00	22	7	15	WSW (252)	71	0	
8/10/2022 12:00	22.7	8	15	NW (307)	64	0	
8/10/2022 13:00	23.7	7	16	WNW (289)	61	0	
8/10/2022 14:00	24.6	7	17	SW (218)	59	0	
8/10/2022 15:00	25	7	16	NW (308)	57	0	
8/10/2022 16:00	25.6	8	18	W (268)	57	0	
8/10/2022 17:00	25.4	7	16	WNW (282)	59	0	
8/10/2022 18:00	25.6	7	18	WSW (258)	55	0	
8/10/2022 19:00	25.4	4	7	W (275)	60	0	
8/10/2022 20:00	23.9	3	6	SSW (212)	66	0	
8/10/2022 21:00	22.7	5	8	S (187)	67	0	
8/10/2022 22:00	21	9	15	SW (216)	82	0	
8/10/2022 23:00	19.7	9	17	SSW (204)	88	0	
8/11/2022 0:00	19.3	9	23	NNW (328)	100	0	
8/11/2022 1:00	19.7	7	13	NNW (342)	100	0	
8/11/2022 2:00	20	10	22	N (9)	70	0	
8/11/2022 3:00	18.7	8	16	NNW (335)	74	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/11/2022 4:00	18	8	17	WNW (294)	76	0	
8/11/2022 5:00	17.5	6	11	NW (310)	76	0	
8/11/2022 6:00	17.2	9	13	NW (320)	78	0	
8/11/2022 7:00	17.8	10	15	NW (325)	78	0	
8/11/2022 8:00	19.1	13	22	NW (320)	76	0	0
8/11/2022 9:00	19.4	16	27	NW (313)	77	0	
8/11/2022 10:00	20.2	15	26	NNW (338)	74	0	
8/11/2022 11:00	21	16	27	NNW (340)	70	0	
8/11/2022 12:00	21.8	17	30	NW (325)	68	0	
8/11/2022 13:00	21.4	21	36	NNW (342)	66	0	
8/11/2022 14:00	20.8	22	35	NW (309)	68	0	
8/11/2022 15:00	20.3	23	37	N (0)	68	0	
8/11/2022 16:00	19.8	23	37	N (0)	65	0	
8/11/2022 17:00	19.3	21	35	NW (323)	64	0	
8/11/2022 18:00	18.8	20	33	WNW (302)	65	0	
8/11/2022 19:00	18.1	15	30	NNW (340)	67	0	
8/11/2022 20:00	16.9	9	18	NNW (330)	71	0	
8/11/2022 21:00	15.3	6	11	NNW (341)	78	0	
8/11/2022 22:00	14.2	5	8	NNE (29)	80	0	
8/11/2022 23:00	13.8	4	7	N (0)	86	0	
8/12/2022 0:00	13.5	4	7	N (9)	90	0	
8/12/2022 1:00	13.1	4	7	N (9)	100	0	
8/12/2022 2:00	13	2	4	N (354)	100	0	
8/12/2022 3:00	12.3	2	4	N (6)	100	0	
8/12/2022 4:00	12.5	3	6	N (0)	100	0	
8/12/2022 5:00	12.6	3	5	NNE (17)	100	0	
8/12/2022 6:00	12.6	1	4	NNW (347)	100	0	
8/12/2022 7:00	14.3	2	3	NNE (26)	100	0	
8/12/2022 8:00	16.6	5	11	NE (42)	100	0	0
8/12/2022 9:00	18.9	5	9	NNE (19)	86	0	
8/12/2022 10:00	20.7	6	11	NE (37)	72	0	
8/12/2022 11:00	21.7	7	14	NNW (332)	55	0	
8/12/2022 12:00	22.5	11	23	N (353)	40	0	
8/12/2022 13:00	22.8	13	26	NW (320)	39	0	
8/12/2022 14:00	22.8	15	27	NNW (328)	42	0	
8/12/2022 15:00	22.6	14	27	NNW (330)	41	0	
8/12/2022 16:00	22.5	13	24	NW (320)	41	0	
8/12/2022 17:00	22.5	11	21	NNE (19)	41	0	
8/12/2022 18:00	21.9	10	18	NW (324)	43	0	
8/12/2022 19:00	20.4	9	15	N (0)	51	0	
8/12/2022 20:00	18.1	6	9	NNE (22)	61	0	
8/12/2022 21:00	16.8	2	6	N (7)	68	0	
8/12/2022 22:00	15.3	1	4	WNW (302)	80	0	
8/12/2022 23:00	14.6	0	2	E (82)	82	0	
8/13/2022 0:00	14	0	2	E (86)	81	0	
8/13/2022 1:00	13.7	1	3	E (99)	85	0	
8/13/2022 2:00	12.8	3	9	WSW (248)	96	0	
8/13/2022 3:00	11.9	2	6	SW (222)	87	0	
8/13/2022 4:00	12.6	5	8	S (177)	84	0	
8/13/2022 5:00	12.9	3	4	SE (135)	81	0	
8/13/2022 6:00	12.2	2	6	E (98)	86	0	
8/13/2022 7:00	14	2	5	E (89)	83	0	
8/13/2022 8:00	15.8	5	6	ESE (108)	72	0	0
8/13/2022 9:00	18.5	8	13	ESE (109)	67	0	
8/13/2022 10:00	20.1	7	10	E (98)	55	0	
8/13/2022 11:00	21.9	6	13	WSW (238)	50	0	
8/13/2022 12:00	22.6	6	15	SSW (212)	53	0	
8/13/2022 13:00	23.4	9	19	SW (214)	53	0	
8/13/2022 14:00	23	12	21	W (259)	54	0	
8/13/2022 15:00	22.4	12	21	SW (235)	55	0	
8/13/2022 16:00	21.8	10	16	W (259)	59	0	
8/13/2022 17:00	21.2	4	11	WSW (248)	63	0	
8/13/2022 18:00	20.8	2	6	WNW (290)	71	0	
8/13/2022 19:00	20.3	2	4	N (5)	75	0	
8/13/2022 20:00	19.7	2	8	WSW (245)	79	0	
8/13/2022 21:00	19.2	1	5	ENE (62)	77	0	
8/13/2022 22:00	18.7	6	8	ENE (60)	79	0	
8/13/2022 23:00	18.5	5	8	E (80)	81	0	
8/14/2022 0:00	18.3	3	6	E (101)	84	0	
8/14/2022 1:00	18.2	3	6	ESE (104)	84	0	
8/14/2022 2:00	18.1	6	8	E (91)	83	0	
8/14/2022 3:00	17.8	8	11	ESE (117)	84	0	
8/14/2022 4:00	17.7	9	12	ESE (107)	85	0	
8/14/2022 5:00	17.3	6	13	SW (216)	86	0	
8/14/2022 6:00	17.5	4	10	E (80)	90	0	
8/14/2022 7:00	18	3	8	SE (127)	80	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/14/2022 8:00	18.5	10	12	ESE (104)	80	0	0
8/14/2022 9:00	20.6	13	17	E (79)	67	0	
8/14/2022 10:00	21.5	11	18	ESE (110)	59	0	
8/14/2022 11:00	21.7	10	14	ESE (123)	58	0	
8/14/2022 12:00	22.5	11	16	SE (133)	55	0	
8/14/2022 13:00	22.2	8	13	ESE (108)	55	0	
8/14/2022 14:00	22.3	9	13	E (95)	58	0	
8/14/2022 15:00	22.8	11	16	ESE (110)	58	0	
8/14/2022 16:00	22.8	10	15	ESE (116)	57	0	
8/14/2022 17:00	22.6	7	11	NE (46)	59	0	
8/14/2022 18:00	22.2	6	9	ENE (58)	61	0	
8/14/2022 19:00	21.3	4	8	N (4)	73	0	
8/14/2022 20:00	19.8	6	10	N (2)	80	0	
8/14/2022 21:00	18.6	5	10	NE (55)	82	0	
8/14/2022 22:00	18.4	7	11	NE (46)	81	0	
8/14/2022 23:00	18.2	3	6	NE (34)	82	0	
8/15/2022 0:00	18.2	5	11	ENE (72)	80	0	
8/15/2022 1:00	18.3	8	14	ENE (60)	79	0	
8/15/2022 2:00	17.7	7	11	NE (51)	82	0	
8/15/2022 3:00	17.2	7	10	N (0)	80	0	
8/15/2022 4:00	16.9	5	12	ENE (69)	84	0	
8/15/2022 5:00	16.9	8	13	ENE (69)	77	0	
8/15/2022 6:00	16.6	7	12	NE (49)	72	0	
8/15/2022 7:00	17.9	10	20	NE (44)	66	0	
8/15/2022 8:00	18.6	11	18	NE (53)	66	0	0
8/15/2022 9:00	19.9	10	19	ENE (70)	68	0	
8/15/2022 10:00	22.8	15	22	NE (56)	58	0	
8/15/2022 11:00	23.6	17	33	ENE (71)	57	0	
8/15/2022 12:00	24.8	17	27	ENE (65)	52	0	
8/15/2022 13:00	25.6	18	28	ENE (78)	46	0	
8/15/2022 14:00	26.2	16	26	ENE (65)	41	0	
8/15/2022 15:00	26.5	15	27	NNE (21)	40	0	
8/15/2022 16:00	25.7	16	26	N (1)	54	0	
8/15/2022 17:00	24.6	14	24	NNW (341)	53	0	
8/15/2022 18:00	23.7	13	23	NW (324)	59	0	
8/15/2022 19:00	23.5	13	22	N (353)	59	0	
8/15/2022 20:00	21.8	10	16	N (350)	66	0	
8/15/2022 21:00	20.3	7	13	N (11)	75	0	
8/15/2022 22:00	19.3	3	8	NNE (22)	77	0	
8/15/2022 23:00	19.2	6	15	NE (40)	78	0	
8/16/2022 0:00	19.7	13	18	ENE (60)	67	0	
8/16/2022 1:00	19.2	11	16	NE (56)	62	0	
8/16/2022 2:00	17.7	8	12	NE (44)	68	0	
8/16/2022 3:00	16.8	6	11	NNE (29)	73	0	
8/16/2022 4:00	16	6	10	NE (52)	78	0	
8/16/2022 5:00	15.4	8	13	ENE (58)	79	0	
8/16/2022 6:00	15.1	8	11	E (82)	82	0	
8/16/2022 7:00	16.3	9	13	E (88)	82	0	
8/16/2022 8:00	18.8	13	17	E (95)	72	0	0
8/16/2022 9:00	21	11	17	E (86)	70	0	
8/16/2022 10:00	22.7	10	17	SSE (147)	70	0	
8/16/2022 11:00	23.9	9	18	E (97)	60	0	
8/16/2022 12:00	24.8	11	22	NE (48)	53	0	
8/16/2022 13:00	25.5	8	16	E (84)	51	0	
8/16/2022 14:00	25	11	23	N (11)	57	0	
8/16/2022 15:00	22.4	10	19	NW (314)	73	0	
8/16/2022 16:00	22.1	9	20	NNE (24)	76	0	
8/16/2022 17:00	19	13	26	ENE (58)	91	13.4	
8/16/2022 18:00	18.2	11	18	E (87)	87	0.4	
8/16/2022 19:00	18.7	7	14	NNE (21)	86	0.2	
8/16/2022 20:00	18.5	7	14	NE (53)	89	0	
8/16/2022 21:00	17.5	8	12	ENE (65)	100	0	
8/16/2022 22:00	17.2	6	9	ESE (120)	100	0	
8/16/2022 23:00	16.1	3	12	NNW (339)	100	0	
8/17/2022 0:00	15.7	3	8	NNE (19)	100	0	
8/17/2022 1:00	15.7	2	5	NW (326)	100	0	
8/17/2022 2:00	15.6	3	6	NNW (334)	100	0	
8/17/2022 3:00	15.8	2	5	NNW (339)	100	0	
8/17/2022 4:00	16	4	9	NNE (25)	100	0	
8/17/2022 5:00	16.4	8	13	E (100)	100	0.2	
8/17/2022 6:00	16.5	4	9	N (350)	100	0	
8/17/2022 7:00	17.2	4	10	NNE (19)	100	0	
8/17/2022 8:00	19.1	8	13	NNE (33)	94	0	14.2
8/17/2022 9:00	20.2	3	9	N (352)	75	0	
8/17/2022 10:00	21.1	3	8	N (350)	71	0	
8/17/2022 11:00	22.3	3	7	WNW (286)	66	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/17/2022 12:00	23	5	11	NE (51)	66	0	
8/17/2022 13:00	23.9	7	14	ENE (63)	60	0	
8/17/2022 14:00	24.9	7	18	NNW (339)	59	0	
8/17/2022 15:00	24.8	8	19	NNE (25)	59	0	
8/17/2022 16:00	24.8	14	24	N (7)	58	0	
8/17/2022 17:00	24.2	16	25	N (1)	63	0	
8/17/2022 18:00	24	14	28	NNE (19)	61	0	
8/17/2022 19:00	23.3	10	19	NE (55)	60	0	
8/17/2022 20:00	21.5	9	15	SE (124)	67	0	
8/17/2022 21:00	19.7	3	9	SSW (206)	76	0	
8/17/2022 22:00	18.3	1	4	NE (55)	83	0	
8/17/2022 23:00	17.1	3	7	NNE (21)	94	0	
8/18/2022 0:00	16.4	3	7	SE (132)	89	0	
8/18/2022 1:00	16.4	1	3	SE (140)	100	0	
8/18/2022 2:00	15.8	2	5	ENE (61)	100	0	
8/18/2022 3:00	15.7	2	4	NE (36)	100	0	
8/18/2022 4:00	15.5	0	3	WNW (296)	100	0	
8/18/2022 5:00	14.7	1	3	NNE (17)	100	0	
8/18/2022 6:00	14.3	1	3	W (261)	100	0	
8/18/2022 7:00	15.1	1	3	SE (127)	100	0	
8/18/2022 8:00	18.4	2	4	WNW (301)	100	0	0
8/18/2022 9:00	20.3	4	10	WNW (294)	100	0	
8/18/2022 10:00	22	3	8	NW (318)	94	0	
8/18/2022 11:00	23.4	3	8	SE (145)	67	0	
8/18/2022 12:00	24.2	5	13	W (260)	62	0	
8/18/2022 13:00	24.6	9	19	NW (306)	61	0	
8/18/2022 14:00	25.1	11	19	WNW (300)	56	0	
8/18/2022 15:00	25.4	13	20	N (9)	46	0	
8/18/2022 16:00	25.6	11	19	NW (310)	46	0	
8/18/2022 17:00	25.7	10	22	NNW (330)	45	0	
8/18/2022 18:00	25.8	6	11	NNE (17)	48	0	
8/18/2022 19:00	25	3	5	ENE (67)	51	0	
8/18/2022 20:00	22.8	5	7	ESE (103)	63	0	
8/18/2022 21:00	21.2	5	11	SE (134)	69	0	
8/18/2022 22:00	21.1	4	7	S (172)	71	0	
8/18/2022 23:00	20.1	5	9	S (191)	77	0	
8/19/2022 0:00	19.5	4	9	S (183)	82	0	
8/19/2022 1:00	18.8	6	10	S (186)	83	0	
8/19/2022 2:00	18.8	5	10	SE (134)	84	0	
8/19/2022 3:00	18.2	5	9	SSW (204)	86	0	
8/19/2022 4:00	17.7	5	9	SW (215)	89	0	
8/19/2022 5:00	18	4	9	SSW (208)	89	0	
8/19/2022 6:00	18	5	10	SSW (203)	94	0	
8/19/2022 7:00	18.3	5	9	SSW (210)	100	0	
8/19/2022 8:00	19.9	6	10	SW (217)	87	0	0
8/19/2022 9:00	22	6	10	SW (217)	77	0	
8/19/2022 10:00	24	8	14	WSW (243)	69	0	
8/19/2022 11:00	25.2	10	18	SW (225)	59	0	
8/19/2022 12:00	26	12	21	SW (214)	54	0	
8/19/2022 13:00	26.6	11	20	SW (216)	50	0	
8/19/2022 14:00	27.1	11	20	SW (235)	48	0	
8/19/2022 15:00	27.5	10	18	S (170)	45	0	
8/19/2022 16:00	27.8	11	22	WSW (257)	43	0	
8/19/2022 17:00	27.5	13	24	SSW (196)	51	0	
8/19/2022 18:00	26.7	13	21	SE (145)	55	0	
8/19/2022 19:00	25.5	14	21	SE (137)	60	0	
8/19/2022 20:00	23	11	15	SE (144)	66	0	
8/19/2022 21:00	21.7	11	15	SSE (152)	70	0	
8/19/2022 22:00	20.8	12	16	SE (146)	78	0	
8/19/2022 23:00	19.9	10	13	SE (134)	88	0	
8/20/2022 0:00	19.2	13	17	SE (137)	100	0	
8/20/2022 1:00	19.3	13	17	SSE (147)	100	0	
8/20/2022 2:00	19.3	13	17	SE (137)	100	0	
8/20/2022 3:00	18.9	11	13	SE (128)	100	0	
8/20/2022 4:00	19	11	15	SE (138)	100	0	
8/20/2022 5:00	19.1	12	15	SE (131)	100	0	
8/20/2022 6:00	18.9	12	15	ESE (115)	100	0	
8/20/2022 7:00	19.3	11	15	ESE (119)	100	0	
8/20/2022 8:00	21.7	14	20	SE (135)	100	0	0
8/20/2022 9:00	23.6	17	23	SE (138)	88	0	
8/20/2022 10:00	25.3	17	23	SE (135)	69	0	
8/20/2022 11:00	25.8	14	23	SSE (157)	69	0	
8/20/2022 12:00	27.1	12	20	S (173)	67	0	
8/20/2022 13:00	27.8	16	27	SSE (160)	58	0	
8/20/2022 14:00	27.8	18	32	SSE (161)	58	0	
8/20/2022 15:00	27.9	18	28	SSW (203)	57	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/20/2022 16:00	27.6	15	29	SSE (157)	55	0	
8/20/2022 17:00	26.6	14	22	SE (140)	59	0	
8/20/2022 18:00	25.8	14	19	SE (124)	65	0	
8/20/2022 19:00	24.5	12	17	ESE (120)	70	0	
8/20/2022 20:00	23.3	13	16	S (175)	78	0	
8/20/2022 21:00	22.7	8	15	SSW (192)	83	0	
8/20/2022 22:00	22.2	4	9	SW (219)	84	0	
8/20/2022 23:00	21.8	4	7	ESE (121)	84	0	
8/21/2022 0:00	20.8	1	5	ESE (115)	96	0	
8/21/2022 1:00	20.1	4	8	ENE (71)	100	0	
8/21/2022 2:00	19.7	6	14	ESE (116)	100	0	
8/21/2022 3:00	19.4	10	14	ESE (117)	100	0	
8/21/2022 4:00	19.2	13	16	ESE (119)	100	0	
8/21/2022 5:00	19.1	10	12	SSE (161)	100	0	
8/21/2022 6:00	19	5	11	SSW (207)	100	0	
8/21/2022 7:00	19	5	12	ESE (113)	100	1.4	
8/21/2022 8:00	19.1	14	19	ESE (118)	100	2.4	3.8
8/21/2022 9:00	19.9	15	21	SE (142)	100	0	
8/21/2022 10:00	21.1	14	22	SE (130)	100	0	
8/21/2022 11:00	21.1	15	21	SE (127)	100	0	
8/21/2022 12:00	20.2	15	24	SE (125)	100	0	
8/21/2022 13:00	20.7	16	23	ESE (122)	100	0	
8/21/2022 14:00	21.8	11	17	SSE (156)	100	0	
8/21/2022 15:00	22.8	10	18	S (171)	93	0	
8/21/2022 16:00	22.8	11	19	SE (146)	90	0	
8/21/2022 17:00	22	8	18	W (281)	100	0	
8/21/2022 18:00	21.2	4	9	NW (313)	100	0.4	
8/21/2022 19:00	21.2	3	8	N (0)	100	0	
8/21/2022 20:00	20.3	5	8	NE (56)	100	0	
8/21/2022 21:00	19.6	5	10	NNE (20)	100	0	
8/21/2022 22:00	18.9	3	6	NNE (17)	100	0	
8/21/2022 23:00	18.5	4	7	N (0)	100	0	
8/22/2022 0:00	18.8	3	6	NE (39)	100	0	
8/22/2022 1:00	18.8	3	7	NW (304)	100	0	
8/22/2022 2:00	18.6	4	9	N (2)	100	0	
8/22/2022 3:00	18.5	4	7	NNW (342)	100	0	
8/22/2022 4:00	18.5	4	9	NNE (22)	100	0	
8/22/2022 5:00	18.5	4	7	N (10)	100	0	
8/22/2022 6:00	18.5	3	6	N (5)	100	0	
8/22/2022 7:00	18.8	4	7	E (94)	100	0	
8/22/2022 8:00	19.5	6	13	N (354)	100	0	0.4
8/22/2022 9:00	20.9	11	19	N (8)	100	0	
8/22/2022 10:00	21.5	15	22	NNE (21)	100	0	
8/22/2022 11:00	22.5	13	22	N (354)	100	0	
8/22/2022 12:00	23.4	16	31	N (0)	86	0	
8/22/2022 13:00	23.5	16	27	NNW (346)	75	0	
8/22/2022 14:00	23.4	19	31	NW (324)	79	0	
8/22/2022 15:00	23.6	19	30	NNW (332)	77	0	
8/22/2022 16:00	23.2	17	28	NW (325)	77	0	
8/22/2022 17:00	23.2	16	28	N (1)	77	0	
8/22/2022 18:00	23	15	26	NW (319)	77	0	
8/22/2022 19:00	22.3	13	24	NNW (342)	85	0	
8/22/2022 20:00	20.6	11	19	WNW (302)	100	0	
8/22/2022 21:00	19.7	8	12	NW (319)	100	0	
8/22/2022 22:00	19.1	7	11	NW (319)	100	0	
8/22/2022 23:00	18.6	6	9	NW (326)	100	0	
8/23/2022 0:00	18.1	4	8	NW (324)	100	0	
8/23/2022 1:00	17.6	2	4	NW (304)	100	0	
8/23/2022 2:00	16.2	5	11	W (259)	100	0.2	
8/23/2022 3:00	15.3	6	9	WNW (289)	100	0	
8/23/2022 4:00	16.4	4	7	W (266)	100	0	
8/23/2022 5:00	15.9	5	7	NW (318)	100	0	
8/23/2022 6:00	16	6	10	W (264)	100	0	
8/23/2022 7:00	16.3	5	7	WNW (292)	100	0	
8/23/2022 8:00	16.4	4	10	NW (312)	100	0	0.2
8/23/2022 9:00	-7.2	11	17	NW (306)	100	0	
8/23/2022 10:00	22.3	11	18	NW (315)	100	0	
8/23/2022 11:00	23.1	13	20	WNW (296)	88	0	
8/23/2022 12:00	23.9	14	25	NW (310)	64	0	
8/23/2022 13:00	24.1	15	24	NW (314)	57	0	
8/23/2022 14:00	24.5	13	23	NW (305)	56	0	
8/23/2022 15:00	24.9	12	19	WNW (293)	55	0	
8/23/2022 16:00	25.2	12	21	NW (326)	52	0	
8/23/2022 17:00	25.4	11	20	WNW (300)	50	0	
8/23/2022 18:00	25.1	9	18	NNW (327)	57	0	
8/23/2022 19:00	24.2	6	10	N (352)	64	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/23/2022 20:00	21.3	6	9	NNE (15)	76	0	
8/23/2022 21:00	20.2	2	7	NE (44)	79	0	
8/23/2022 22:00	19.9	2	3	S (174)	84	0	
8/23/2022 23:00	18.7	0	2	NE (52)	93	0	
8/24/2022 0:00	18	2	5	SSE (155)	99	0	
8/24/2022 1:00	17.6	2	4	SSW (204)	100	0	
8/24/2022 2:00	17.3	1	4	SSW (210)	100	0	
8/24/2022 3:00	17.8	0	3	SSW (202)	100	0	
8/24/2022 4:00	18.1	4	9	S (182)	83	0	
8/24/2022 5:00	18.5	6	10	SSW (192)	84	0	
8/24/2022 6:00	18.2	5	9	SW (225)	86	0	
8/24/2022 7:00	18	4	8	SSW (210)	89	0	
8/24/2022 8:00	19.3	6	10	W (260)	84	0	0
8/24/2022 9:00	20.8	6	9	WNW (297)	82	0	
8/24/2022 10:00	22.9	6	11	W (276)	79	0	
8/24/2022 11:00	24.5	8	16	WNW (285)	73	0	
8/24/2022 12:00	25.6	10	19	NW (306)	67	0	
8/24/2022 13:00	26.1	10	20	NNW (330)	57	0	
8/24/2022 14:00	26.6	9	22	W (269)	54	0	
8/24/2022 15:00	26.8	10	19	N (1)	52	0	
8/24/2022 16:00	26.9	8	17	NNW (328)	50	0	
8/24/2022 17:00	27.1	6	16	NNW (337)	49	0	
8/24/2022 18:00	27.3	5	12	NW (306)	49	0	
8/24/2022 19:00	26.4	3	5	NE (37)	57	0	
8/24/2022 20:00	24.1	5	9	E (86)	67	0	
8/24/2022 21:00	22.8	4	7	ESE (113)	70	0	
8/24/2022 22:00	21.6	6	14	SSE (152)	72	0	
8/24/2022 23:00	22.3	7	12	S (170)	69	0	
8/25/2022 0:00	21	4	8	S (176)	80	0	
8/25/2022 1:00	20.3	4	7	ESE (123)	84	0	
8/25/2022 2:00	19.6	3	8	ESE (109)	85	0	
8/25/2022 3:00	19	5	9	ENE (70)	89	0	
8/25/2022 4:00	19.1	2	8	E (100)	91	0	
8/25/2022 5:00	18.4	3	13	SSE (149)	98	0	
8/25/2022 6:00	18.9	12	16	SE (139)	87	0	
8/25/2022 7:00	19.6	9	13	S (171)	83	0	
8/25/2022 8:00	20.9	11	15	SSE (152)	83	0	0
8/25/2022 9:00	22.8	9	14	SSE (168)	82	0	
8/25/2022 10:00	24.7	11	18	SSW (204)	76	0	
8/25/2022 11:00	25.5	10	17	SW (221)	69	0	
8/25/2022 12:00	26.3	11	21	SSE (164)	65	0	
8/25/2022 13:00	26.8	14	23	SSW (204)	64	0	
8/25/2022 14:00	27.4	16	30	SW (234)	63	0	
8/25/2022 15:00	27.5	18	27	SW (223)	53	0	
8/25/2022 16:00	26.6	14	23	SW (225)	57	0	
8/25/2022 17:00	26.3	10	22	SW (233)	60	0	
8/25/2022 18:00	25.5	8	14	SW (222)	64	0	
8/25/2022 19:00	24.7	5	9	SW (228)	67	0	
8/25/2022 20:00	23.7	6	12	S (172)	74	0	
8/25/2022 21:00	23	9	14	S (172)	76	0	
8/25/2022 22:00	22.4	8	15	SSE (160)	79	0	
8/25/2022 23:00	21.2	7	12	SSW (213)	96	0	
8/26/2022 0:00	20.8	3	11	SSW (203)	96	0	
8/26/2022 1:00	20.6	2	6	SW (231)	100	0	
8/26/2022 2:00	20.4	3	5	WSW (242)	100	0	
8/26/2022 3:00	20.1	2	7	SSW (202)	100	0	
8/26/2022 4:00	19.8	3	6	W (272)	100	0	
8/26/2022 5:00	19.8	3	11	NNW (336)	100	0	
8/26/2022 6:00	19.5	5	11	NW (315)	100	0	
8/26/2022 7:00	19.5	5	9	NW (324)	100	0	
8/26/2022 8:00	20	6	12	NNW (329)	100	0	0
8/26/2022 9:00	20.2	7	13	NNW (330)	100	0	
8/26/2022 10:00	20.3	9	16	NW (310)	100	0	
8/26/2022 11:00	20.4	11	23	N (3)	100	0	
8/26/2022 12:00	21.4	11	22	N (352)	100	0	
8/26/2022 13:00	22.3	17	26	N (353)	88	0	
8/26/2022 14:00	21.5	20	33	NNW (332)	83	0	
8/26/2022 15:00	21.4	21	33	NW (324)	80	0	
8/26/2022 16:00	21.2	19	35	NW (323)	77	0	
8/26/2022 17:00	20.7	18	30	NW (322)	73	0	
8/26/2022 18:00	20.1	19	32	NNW (333)	70	0	
8/26/2022 19:00	19.3	14	29	NNW (342)	72	0	
8/26/2022 20:00	17.7	7	16	NNW (335)	81	0	
8/26/2022 21:00	16.6	4	8	NNW (344)	84	0	
8/26/2022 22:00	15.8	5	10	N (1)	88	0	
8/26/2022 23:00	14.9	4	7	NE (35)	88	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/27/2022 0:00	14.4	2	6	NE (35)	93	0	
8/27/2022 1:00	13.9	4	6	NNE (24)	97	0	
8/27/2022 2:00	13.3	4	7	E (98)	100	0	
8/27/2022 3:00	13	1	3	NNE (19)	100	0	
8/27/2022 4:00	11.6	2	5	N (2)	100	0	
8/27/2022 5:00	11.3	1	5	E (95)	100	0	
8/27/2022 6:00	11.4	3	7	ESE (102)	100	0	
8/27/2022 7:00	12	3	7	NNE (20)	100	0	
8/27/2022 8:00	14.7	6	11	E (80)	100	0	0
8/27/2022 9:00	17.4	10	16	ESE (107)	88	0	
8/27/2022 10:00	18.9	12	19	SE (146)	72	0	
8/27/2022 11:00	20.2	11	18	ESE (106)	65	0	
8/27/2022 12:00	21.4	10	20	SSE (152)	63	0	
8/27/2022 13:00	22.6	11	19	E (83)	57	0	
8/27/2022 14:00	23.5	9	21	SE (124)	54	0	
8/27/2022 15:00	24.1	9	22	SSE (150)	52	0	
8/27/2022 16:00	24.4	12	21	SE (129)	49	0	
8/27/2022 17:00	24.4	11	18	SSE (159)	46	0	
8/27/2022 18:00	23.8	9	15	SE (134)	50	0	
8/27/2022 19:00	23	8	13	SSE (167)	63	0	
8/27/2022 20:00	20.7	5	11	SE (128)	73	0	
8/27/2022 21:00	19.6	8	13	SSE (154)	75	0	
8/27/2022 22:00	17.9	10	14	ESE (114)	87	0	
8/27/2022 23:00	16.7	8	12	E (100)	96	0	
8/28/2022 0:00	16	9	14	ESE (107)	100	0	
8/28/2022 1:00	15.1	12	16	ESE (115)	80	0	
8/28/2022 2:00	15.1	17	21	SE (126)	73	0	
8/28/2022 3:00	14.8	18	24	ESE (107)	71	0	
8/28/2022 4:00	14.5	15	22	ESE (105)	78	0	
8/28/2022 5:00	14.4	13	16	ESE (120)	80	0	
8/28/2022 6:00	15.2	16	19	ESE (117)	82	0	
8/28/2022 7:00	16.3	17	20	ESE (116)	83	0	
8/28/2022 8:00	18.7	15	19	ESE (123)	82	0	0
8/28/2022 9:00	21.3	14	19	SSE (159)	79	0	
8/28/2022 10:00	23.5	13	20	SSW (200)	76	0	
8/28/2022 11:00	25.2	10	19	SW (222)	68	0	
8/28/2022 12:00	26.5	11	21	SSE (157)	59	0	
8/28/2022 13:00	27.2	14	22	W (261)	54	0	
8/28/2022 14:00	28	15	27	SSW (201)	51	0	
8/28/2022 15:00	28.2	16	26	S (190)	53	0	
8/28/2022 16:00	28	18	30	SSE (163)	55	0	
8/28/2022 17:00	27.5	21	34	SSE (152)	56	0	
8/28/2022 18:00	26.8	19	28	SSE (164)	57	0	
8/28/2022 19:00	25.7	14	20	SE (133)	65	0	
8/28/2022 20:00	23.3	16	21	SE (134)	77	0	
8/28/2022 21:00	21.9	18	24	SE (143)	82	0	
8/28/2022 22:00	21.4	18	24	SE (125)	86	0	
8/28/2022 23:00	21.2	19	25	ESE (114)	90	0	
8/29/2022 0:00	21.3	19	27	SE (129)	99	0	
8/29/2022 1:00	21.5	18	22	ESE (123)	100	0	
8/29/2022 2:00	22.4	16	24	SE (142)	96	0	
8/29/2022 3:00	22.9	15	22	SSE (161)	83	0	
8/29/2022 4:00	23.4	15	22	SSE (164)	80	0	
8/29/2022 5:00	23.6	15	22	SSE (157)	82	0	
8/29/2022 6:00	23.7	13	22	S (178)	83	0	
8/29/2022 7:00	24	15	28	SSW (194)	83	0	
8/29/2022 8:00	24.1	13	21	S (188)	83	0	0
8/29/2022 9:00	24.8	13	25	SW (226)	80	0	
8/29/2022 10:00	25.2	22	35	SW (231)	76	0	
8/29/2022 11:00	25.3	23	38	SSW (208)	75	0	
8/29/2022 12:00	25.4	22	36	SW (225)	75	0	
8/29/2022 13:00	25.1	18	36	SSW (206)	79	0	
8/29/2022 14:00	25.9	18	32	SSW (204)	78	0	
8/29/2022 15:00	27.7	22	38	SSW (197)	70	0	
8/29/2022 16:00	27.8	18	35	SW (219)	70	0	
8/29/2022 17:00	28.1	18	35	S (170)	72	0	
8/29/2022 18:00	27.6	16	31	SE (146)	75	0	
8/29/2022 19:00							
8/29/2022 20:00							
8/29/2022 21:00							
8/29/2022 22:00							
8/29/2022 23:00	19.9	15	30	SW (219)	100	0	
8/30/2022 0:00	19.9	10	16	SW (219)	100	0	
8/30/2022 1:00	20.1	11	13	WSW (237)	100	0	
8/30/2022 2:00	20	8	15	SW (218)	100	0	
8/30/2022 3:00	20.1	11	20	SSW (198)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/30/2022 4:00	20	10	18	SW (214)	100	0	
8/30/2022 5:00	19.9	10	15	SW (214)	100	0.4	
8/30/2022 6:00	19.7	8	12	WSW (238)	100	0	
8/30/2022 7:00	19.7	7	16	S (187)	100	0.6	
8/30/2022 8:00	19.8	7	12	WSW (243)	100	1	2
8/30/2022 9:00	20.1	8	17	SW (218)	100	0	
8/30/2022 10:00	20.6	13	24	SSW (212)	100	0	
8/30/2022 11:00	21.2	16	25	WSW (241)	100	0	
8/30/2022 12:00	22.4	17	25	SW (222)	99	0	
8/30/2022 13:00	24.1	17	26	SW (230)	78	0	
8/30/2022 14:00	25.1	20	36	W (274)	63	0	
8/30/2022 15:00	24.7	20	32	NW (324)	60	0	
8/30/2022 16:00	24.6	21	34	NW (312)	61	0	
8/30/2022 17:00	24.4	20	29	NW (308)	62	0	
8/30/2022 18:00	22.6	15	26	WNW (301)	76	0.2	
8/30/2022 19:00	22.1	19	29	WNW (297)	72	0	
8/30/2022 20:00	21.5	21	34	WNW (295)	67	0	
8/30/2022 21:00	20.8	19	34	WNW (287)	71	0	
8/30/2022 22:00	19.5	13	25	WNW (288)	77	0	
8/30/2022 23:00	17.8	9	15	WSW (254)	89	0	
8/31/2022 0:00	16.3	9	13	W (272)	94	0	
8/31/2022 1:00	15.9	9	14	WSW (242)	100	0	
8/31/2022 2:00	15.3	10	13	SW (232)	100	0	
8/31/2022 3:00	14.8	8	12	SW (227)	100	0	
8/31/2022 4:00	14.4	9	14	SW (234)	100	0	
8/31/2022 5:00	14.1	10	16	WSW (248)	100	0	
8/31/2022 6:00	13.8	11	16	SW (236)	100	0	
8/31/2022 7:00	14.3	14	20	SW (222)	100	0	
8/31/2022 8:00	16.2	13	22	WSW (243)	100	0	0.2
8/31/2022 9:00	18.6	16	24	W (259)	77	0	
8/31/2022 10:00	20.8	18	28	WSW (258)	70	0	
8/31/2022 11:00	22.4	18	29	WSW (256)	65	0	
8/31/2022 12:00	23.6	20	32	W (270)	60	0	
8/31/2022 13:00	24.4	22	36	WSW (255)	54	0	
8/31/2022 14:00	25	22	40	WNW (289)	49	0	
8/31/2022 15:00	25.5	24	41	WNW (291)	45	0	
8/31/2022 16:00	25.6	21	35	W (262)	46	0	
8/31/2022 17:00	25.6	21	37	NW (310)	46	0	
8/31/2022 18:00	25	17	30	W (269)	52	0	
8/31/2022 19:00	23.6	13	22	W (275)	57	0	
8/31/2022 20:00	21.6	12	19	NW (310)	63	0	
8/31/2022 21:00	21.7	13	23	W (262)	65	0	
8/31/2022 22:00	19.3	9	15	W (262)	74	0	
8/31/2022 23:00	17.6	9	14	WSW (251)	77	0	
9/1/2022 0:00	17.5	9	22	N (354)	81	0	
9/1/2022 1:00	17.6	7	14	NW (314)	81	0	
9/1/2022 2:00	16.5	4	7	NW (322)	80	0	
9/1/2022 3:00	15.4	6	8	SSW (212)	85	0	
9/1/2022 4:00	14.6	2	5	SSW (194)	86	0	
9/1/2022 5:00	13.9	1	4	SW (221)	90	0	
9/1/2022 6:00	13.2	3	5	SW (227)	88	0	
9/1/2022 7:00	13.8	2	7	W (267)	87	0	
9/1/2022 8:00	15.7	4	10	SW (232)	82	0	0
9/1/2022 9:00	18.2	3	9	W (261)	77	0	
9/1/2022 10:00	19.6	5	12	SW (231)	62	0	
9/1/2022 11:00	20.6	6	14	WSW (248)	61	0	
9/1/2022 12:00	21.8	9	18	WSW (252)	58	0	
9/1/2022 13:00	22.7	10	22	WSW (256)	55	0	
9/1/2022 14:00	23.7	8	26	WNW (295)	49	0	
9/1/2022 15:00	24.6	8	18	SW (231)	48	0	
9/1/2022 16:00	25	9	16	W (260)	49	0	
9/1/2022 17:00	25.4	7	14	SW (229)	48	0	
9/1/2022 18:00	25	7	13	SW (215)	50	0	
9/1/2022 19:00	24.2	4	8	ESE (109)	56	0	
9/1/2022 20:00	22.2	4	9	SSE (148)	62	0	
9/1/2022 21:00	20.8	8	15	SSE (149)	73	0	
9/1/2022 22:00	19.6	9	15	SSE (154)	76	0	
9/1/2022 23:00	19.1	8	12	SE (138)	81	0	
9/2/2022 0:00	18.6	10	15	SSE (166)	88	0	
9/2/2022 1:00	18.1	12	14	SSE (156)	92	0	
9/2/2022 2:00	18.3	11	14	S (172)	90	0	
9/2/2022 3:00	18.2	8	13	S (177)	90	0	
9/2/2022 4:00	18.2	11	14	S (171)	98	0	
9/2/2022 5:00	17.7	10	13	SSE (161)	100	0	
9/2/2022 6:00	17.7	11	15	S (184)	100	0	
9/2/2022 7:00	18	9	13	SE (145)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/2/2022 8:00	19.7	11	16	S (170)	98	0	0
9/2/2022 9:00	22.1	14	20	SSE (147)	79	0	
9/2/2022 10:00	23.8	19	26	SSE (163)	67	0	
9/2/2022 11:00	25.3	19	26	S (174)	63	0	
9/2/2022 12:00	26	19	26	SSE (157)	57	0	
9/2/2022 13:00	26.2	20	28	SSE (164)	52	0	
9/2/2022 14:00	26.9	21	31	SE (142)	48	0	
9/2/2022 15:00	27.4	21	31	SSE (147)	45	0	
9/2/2022 16:00	26.7	21	30	SE (137)	44	0	
9/2/2022 17:00	25.9	18	24	SE (143)	48	0	
9/2/2022 18:00	24.7	12	18	SE (128)	59	0	
9/2/2022 19:00	22.8	11	15	ESE (121)	68	0	
9/2/2022 20:00	21.3	16	20	SE (125)	71	0	
9/2/2022 21:00	20.3	17	21	SE (131)	77	0	
9/2/2022 22:00	19.5	17	21	ESE (121)	79	0	
9/2/2022 23:00	19.1	16	19	ESE (122)	82	0	
9/3/2022 0:00	19	15	19	ESE (122)	83	0	
9/3/2022 1:00	19.2	14	19	ESE (115)	86	0	
9/3/2022 2:00	19.1	10	13	ESE (118)	95	0	
9/3/2022 3:00	19.4	11	15	SE (141)	98	0	
9/3/2022 4:00	19.4	10	14	SSE (160)	100	0	
9/3/2022 5:00	19.3	10	15	SSE (148)	100	0	
9/3/2022 6:00	19.4	11	17	SSE (158)	100	0	
9/3/2022 7:00	19.7	6	12	E (97)	100	0	
9/3/2022 8:00	21.2	4	8	W (268)	100	0	0
9/3/2022 9:00	23.4	8	16	SSW (202)	96	0	
9/3/2022 10:00	25	8	15	SSW (196)	78	0	
9/3/2022 11:00	26.3	7	13	W (265)	74	0	
9/3/2022 12:00	27.4	9	18	SW (221)	71	0	
9/3/2022 13:00	28.4	12	22	SW (214)	59	0	
9/3/2022 14:00	29.1	11	21	SW (234)	56	0	
9/3/2022 15:00	29.4	13	22	SSW (209)	54	0	
9/3/2022 16:00	29.6	13	25	W (261)	50	0	
9/3/2022 17:00	29.1	9	18	S (189)	58	0	
9/3/2022 18:00	28.4	9	16	S (170)	60	0	
9/3/2022 19:00	26.9	7	13	SSW (197)	62	0	
9/3/2022 20:00	25.2	7	12	SSW (195)	67	0	
9/3/2022 21:00	23.3	6	20	NNW (345)	78	0	
9/3/2022 22:00	21.8	6	15	N (352)	100	0	
9/3/2022 23:00	20.6	3	10	WNW (284)	100	0	
9/4/2022 0:00	20	3	8	WSW (241)	100	0	
9/4/2022 1:00	-49.1	5	8	NW (316)	100	0	
9/4/2022 2:00	-59.9	5	9	N (5)	100	0	
9/4/2022 3:00	19	5	10	NE (34)	100	0	
9/4/2022 4:00	18.9	8	13	N (353)	100	0	
9/4/2022 5:00	18.5	8	14	NNE (32)	100	0	
9/4/2022 6:00	18.6	7	13	NNE (17)	100	0	
9/4/2022 7:00	18.7	9	13	NE (48)	100	0	
9/4/2022 8:00	-41.5	10	15	NNE (16)	100	0	0
9/4/2022 9:00	19.4	9	15	NE (46)	100	0	
9/4/2022 10:00	20.1	10	16	NE (49)	100	0	
9/4/2022 11:00	20.9	10	15	NE (54)	100	0	
9/4/2022 12:00	21.4	10	15	N (11)	100	0	
9/4/2022 13:00	21.6	6	10	NNE (15)	100	0	
9/4/2022 14:00	22.5	6	11	WSW (249)	100	0	
9/4/2022 15:00	22	8	12	NW (313)	100	0	
9/4/2022 16:00	21.3	11	17	NW (318)	100	0	
9/4/2022 17:00	20.5	11	18	ENE (72)	100	0.6	
9/4/2022 18:00	19.8	15	20	ESE (103)	100	0.2	
9/4/2022 19:00	19.2	12	19	ENE (70)	100	0	
9/4/2022 20:00	18.8	9	15	E (84)	100	0	
9/4/2022 21:00	18.2	14	20	E (91)	100	0	
9/4/2022 22:00	17.6	12	19	E (89)	100	0	
9/4/2022 23:00	17.2	15	21	E (90)	100	0	
9/5/2022 0:00	17	11	18	ENE (77)	100	0	
9/5/2022 1:00	16.5	12	17	ENE (63)	100	8.6	
9/5/2022 2:00	16.2	13	20	ENE (62)	100	0.8	
9/5/2022 3:00	16.3	11	16	NE (48)	100	0	
9/5/2022 4:00	16.4	12	17	ENE (71)	100	0	
9/5/2022 5:00	16.5	10	17	ENE (59)	100	0	
9/5/2022 6:00	16.6	10	17	ENE (68)	100	0	
9/5/2022 7:00	16.6	11	19	E (88)	100	0	
9/5/2022 8:00	16.5	15	20	NE (44)	100	0	10.2
9/5/2022 9:00	16.8	12	18	NNE (27)	100	0	
9/5/2022 10:00	17.5	13	20	NE (47)	100	0	
9/5/2022 11:00	18.9	12	19	ENE (76)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/5/2022 12:00	19.8	12	17	E (85)	96	0	
9/5/2022 13:00	20	11	17	N (7)	95	0	
9/5/2022 14:00	20.4	11	20	NE (48)	94	0	
9/5/2022 15:00	21	11	18	N (11)	89	0	
9/5/2022 16:00	21.1	10	16	NNE (17)	90	0	
9/5/2022 17:00	21.5	10	17	N (2)	87	0	
9/5/2022 18:00	21.3	8	13	NW (314)	97	0	
9/5/2022 19:00	20.5	9	19	N (0)	100	0	
9/5/2022 20:00	20.1	5	10	NNW (331)	100	0	
9/5/2022 21:00	19.9	3	6	N (0)	100	0	
9/5/2022 22:00	19.8	6	16	NE (50)	100	0	
9/5/2022 23:00	18.5	9	14	NE (53)	100	0	
9/6/2022 0:00	17.4	6	9	NE (43)	100	0	
9/6/2022 1:00	16.7	7	11	NE (46)	100	0	
9/6/2022 2:00	16.2	6	12	NNE (14)	100	0	
9/6/2022 3:00	15.4	4	8	NE (52)	100	0	
9/6/2022 4:00	15	6	8	NNE (16)	100	0	
9/6/2022 5:00	14.4	5	8	NNE (16)	100	0	
9/6/2022 6:00	14.7	5	13	NE (39)	100	0	
9/6/2022 7:00	15.2	6	13	NE (42)	100	0	
9/6/2022 8:00	15.8	8	17	NE (38)	100	0	0
9/6/2022 9:00	17.5	11	18	NE (54)	86	0	
9/6/2022 10:00	19	11	19	NNE (31)	77	0	
9/6/2022 11:00	21	12	22	ENE (68)	65	0	
9/6/2022 12:00	22.2	11	19	NE (48)	56	0	
9/6/2022 13:00	22.9	11	20	NNE (25)	56	0	
9/6/2022 14:00	22.9	13	23	NNW (339)	58	0	
9/6/2022 15:00	22.6	13	22	NNW (334)	60	0	
9/6/2022 16:00	22.2	15	25	N (8)	63	0	
9/6/2022 17:00	21.6	15	29	N (1)	64	0	
9/6/2022 18:00	20.8	13	22	NNW (347)	69	0	
9/6/2022 19:00	19.7	11	19	NW (305)	78	0	
9/6/2022 20:00	18	8	13	NNW (327)	83	0	
9/6/2022 21:00	17.1	7	12	NW (323)	87	0	
9/6/2022 22:00	16.6	5	10	NW (306)	92	0	
9/6/2022 23:00	15.9	4	13	ESE (110)	100	0	
9/7/2022 0:00	15.4	3	8	E (84)	100	0	
9/7/2022 1:00	14.6	2	4	ESE (107)	100	0	
9/7/2022 2:00	14	6	8	E (98)	100	0	
9/7/2022 3:00	14	5	7	ESE (112)	100	0	
9/7/2022 4:00	13.5	0	3	ESE (112)	100	0	
9/7/2022 5:00	12.7	2	4	NNW (346)	100	0	
9/7/2022 6:00	12.1	4	6	E (82)	100	0	
9/7/2022 7:00	13.2	4	6	NE (55)	100	0	
9/7/2022 8:00	16	4	7	NNE (32)	100	0	0
9/7/2022 9:00	18.7	6	9	N (0)	100	0	
9/7/2022 10:00	20.2	8	16	NNE (32)	87	0	
9/7/2022 11:00	21.1	11	20	N (2)	73	0	
9/7/2022 12:00	21.8	12	25	NNE (13)	59	0	
9/7/2022 13:00	22.3	12	23	N (4)	58	0	
9/7/2022 14:00	22.9	9	24	NW (305)	58	0	
9/7/2022 15:00	22.5	12	20	NE (45)	58	0	
9/7/2022 16:00	22.7	13	24	NW (311)	57	0	
9/7/2022 17:00	22.2	15	25	N (349)	58	0	
9/7/2022 18:00	21.6	13	22	NW (320)	59	0	
9/7/2022 19:00	20.2	8	20	NNW (329)	72	0	
9/7/2022 20:00	18.2	6	11	N (5)	84	0	
9/7/2022 21:00	16.8	6	9	N (2)	90	0	
9/7/2022 22:00	15.8	3	6	NNE (31)	100	0	
9/7/2022 23:00	14.9	4	6	NE (54)	100	0	
9/8/2022 0:00	14.7	4	6	NE (34)	100	0	
9/8/2022 1:00	14.2	3	6	NNW (346)	100	0	
9/8/2022 2:00	13.6	3	6	N (0)	100	0	
9/8/2022 3:00	13.4	4	7	N (0)	100	0	
9/8/2022 4:00	12.9	3	6	NNE (25)	100	0	
9/8/2022 5:00	12.2	2	6	N (352)	100	0	
9/8/2022 6:00	11.7	4	7	N (2)	100	0	
9/8/2022 7:00	12.8	2	5	NNE (24)	100	0	
9/8/2022 8:00	15.3	2	4	NW (319)	100	0	0
9/8/2022 9:00	18.2	4	8	NE (39)	95	0	
9/8/2022 10:00	20.6	7	15	NNE (21)	69	0	
9/8/2022 11:00	21.9	8	16	E (92)	55	0	
9/8/2022 12:00	22.8	9	17	SE (125)	48	0	
9/8/2022 13:00	23.9	10	18	SE (133)	43	0	
9/8/2022 14:00	24.4	11	20	SE (125)	43	0	
9/8/2022 15:00	24.7	10	19	SE (138)	43	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/8/2022 16:00	24.8	9	18	SE (143)	46	0	
9/8/2022 17:00	24.7	8	15	SSE (148)	48	0	
9/8/2022 18:00	24.3	9	16	SSW (192)	50	0	
9/8/2022 19:00	22.9	5	8	N (0)	62	0	
9/8/2022 20:00	20.2	4	9	SSE (168)	74	0	
9/8/2022 21:00	19.6	5	9	SE (126)	78	0	
9/8/2022 22:00	18.2	3	7	SSE (160)	86	0	
9/8/2022 23:00	17.6	6	9	S (170)	91	0	
9/9/2022 0:00	17.2	6	10	SSE (150)	100	0	
9/9/2022 1:00	16	3	5	E (98)	100	0	
9/9/2022 2:00	15	3	5	SE (143)	100	0	
9/9/2022 3:00	15.3	5	10	SE (141)	100	0	
9/9/2022 4:00	14.6	3	10	ESE (105)	100	0	
9/9/2022 5:00	14.5	4	7	ESE (106)	100	0	
9/9/2022 6:00	14.1	5	7	ESE (120)	100	0	
9/9/2022 7:00	14.9	4	13	SE (132)	100	0	
9/9/2022 8:00	17.6	9	15	SE (141)	100	0	0
9/9/2022 9:00	19.8	8	10	SSE (148)	92	0	
9/9/2022 10:00	21.1	8	17	SE (138)	84	0	
9/9/2022 11:00	22.4	9	20	SW (227)	78	0	
9/9/2022 12:00	23.9	12	21	SW (229)	61	0	
9/9/2022 13:00	25	11	21	SSE (164)	53	0	
9/9/2022 14:00	26	12	23	S (172)	51	0	
9/9/2022 15:00	26.5	11	22	SE (129)	50	0	
9/9/2022 16:00	26.6	17	24	SE (144)	53	0	
9/9/2022 17:00	26.2	20	27	SE (140)	54	0	
9/9/2022 18:00	25.1	19	26	SSE (148)	55	0	
9/9/2022 19:00	22.7	12	20	ESE (121)	68	0	
9/9/2022 20:00	20.4	12	15	SE (124)	75	0	
9/9/2022 21:00	19.6	15	17	SE (133)	79	0	
9/9/2022 22:00	19.1	16	20	SE (127)	81	0	
9/9/2022 23:00	18.8	16	19	SE (124)	81	0	
9/10/2022 0:00	18.6	15	18	SE (124)	82	0	
9/10/2022 1:00	18.5	14	17	ESE (123)	84	0	
9/10/2022 2:00	17.9	16	18	ESE (118)	92	0	
9/10/2022 3:00	17.8	16	20	ESE (116)	100	0	
9/10/2022 4:00	17.5	15	19	SE (127)	100	0	
9/10/2022 5:00	18	14	17	SE (145)	100	0	
9/10/2022 6:00	18.4	13	16	SE (140)	100	0	
9/10/2022 7:00	18.7	13	16	SE (132)	100	0	
9/10/2022 8:00	19.8	14	19	SE (145)	100	0	0
9/10/2022 9:00	22.2	16	23	SSE (149)	90	0	
9/10/2022 10:00	24.2	13	20	SSE (156)	77	0	
9/10/2022 11:00	25.7	12	20	SE (138)	70	0	
9/10/2022 12:00	26.4	11	19	SSE (162)	68	0	
9/10/2022 13:00	27.5	13	23	SSW (206)	62	0	
9/10/2022 14:00	28.2	16	28	SSE (150)	57	0	
9/10/2022 15:00	27.5	20	31	SSE (158)	58	0	
9/10/2022 16:00	27.6	24	38	SSE (164)	55	0	
9/10/2022 17:00	27.1	24	33	SSE (152)	55	0	
9/10/2022 18:00	25.4	23	31	SSE (154)	61	0	
9/10/2022 19:00	23.3	15	28	SE (127)	73	0	
9/10/2022 20:00	21.5	11	17	ESE (123)	80	0	
9/10/2022 21:00	20.7	12	17	SE (141)	85	0	
9/10/2022 22:00	20.6	12	17	SSE (147)	87	0	
9/10/2022 23:00	20.9	13	19	SE (131)	86	0	
9/11/2022 0:00	20.6	14	20	SSE (166)	87	0	
9/11/2022 1:00	20.4	13	21	SSE (160)	85	0	
9/11/2022 2:00	20	11	17	S (173)	83	0	
9/11/2022 3:00	19.7	9	14	SSE (167)	83	0	
9/11/2022 4:00	19.6	9	13	SSE (157)	83	0	
9/11/2022 5:00	19.2	9	13	SE (138)	88	0	
9/11/2022 6:00	18.7	12	16	SE (135)	93	0	
9/11/2022 7:00	18.9	11	17	SE (126)	97	0	
9/11/2022 8:00	19.8	14	20	SE (129)	87	0	0
9/11/2022 9:00	20.4	16	22	SE (145)	86	0	
9/11/2022 10:00	21.6	17	24	SE (145)	85	0	
9/11/2022 11:00	22.7	20	29	SE (139)	77	0	
9/11/2022 12:00	23.3	22	29	SE (138)	69	0	
9/11/2022 13:00	23.8	23	32	SE (144)	66	0	
9/11/2022 14:00	23.5	24	31	ESE (109)	66	0	
9/11/2022 15:00	23.3	26	35	SE (134)	70	0	
9/11/2022 16:00	23.7	22	30	ESE (112)	65	0	
9/11/2022 17:00	23	16	25	ESE (123)	68	0	
9/11/2022 18:00	22.4	15	24	SE (134)	73	0	
9/11/2022 19:00	21.1	15	21	SE (133)	81	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/11/2022 20:00	19.9	14	19	ESE (118)	83	0	
9/11/2022 21:00	19.4	16	22	ESE (122)	86	0	
9/11/2022 22:00	19.4	16	21	ESE (115)	92	0	
9/11/2022 23:00	18.9	15	21	ESE (121)	100	0	
9/12/2022 0:00	18.7	15	20	ESE (110)	100	0	
9/12/2022 1:00	18.7	15	20	ESE (108)	100	0	
9/12/2022 2:00	18.8	16	20	ESE (122)	100	0	
9/12/2022 3:00	18.9	15	20	E (100)	100	0	
9/12/2022 4:00	18.9	14	19	ESE (114)	100	0	
9/12/2022 5:00	18.9	14	18	ESE (117)	100	1	
9/12/2022 6:00	19.1	10	17	SE (124)	100	0	
9/12/2022 7:00	19.4	8	15	WSW (241)	100	0	
9/12/2022 8:00	19.4	13	21	SW (226)	100	0	1
9/12/2022 9:00	19.2	16	23	SSW (213)	100	0	
9/12/2022 10:00	18.8	17	26	SW (222)	100	0	
9/12/2022 11:00	19.3	16	25	WSW (243)	85	0	
9/12/2022 12:00	20.5	17	28	SW (218)	79	0	
9/12/2022 13:00	21.7	16	29	SSW (209)	64	0	
9/12/2022 14:00	21.7	16	30	S (172)	58	0	
9/12/2022 15:00	21.4	19	32	WSW (237)	63	0	
9/12/2022 16:00	20.8	22	34	WSW (237)	60	0	
9/12/2022 17:00	19.9	20	32	WSW (242)	61	0	
9/12/2022 18:00	19	14	29	SSW (192)	61	0	
9/12/2022 19:00	17.8	7	12	SW (216)	69	0	
9/12/2022 20:00	16.4	6	13	SSW (204)	73	0	
9/12/2022 21:00	15	7	12	SW (218)	74	0	
9/12/2022 22:00	14.3	5	9	SW (229)	77	0	
9/12/2022 23:00	13.7	6	10	S (176)	79	0	
9/13/2022 0:00	13.4	7	9	SSE (164)	78	0	
9/13/2022 1:00	12.7	5	9	ESE (106)	86	0	
9/13/2022 2:00	11.9	5	10	E (96)	89	0	
9/13/2022 3:00	11.2	5	8	E (80)	94	0	
9/13/2022 4:00	12.2	5	7	ESE (113)	89	0	
9/13/2022 5:00	12.8	10	20	E (95)	89	0.2	
9/13/2022 6:00	12.8	13	18	ESE (115)	100	0.2	
9/13/2022 7:00	13.4	14	19	E (90)	100	0.2	
9/13/2022 8:00	14.5	12	16	E (97)	100	0	0.6
9/13/2022 9:00	14.9	11	15	ENE (70)	100	0.4	
9/13/2022 10:00	15.4	10	16	NE (43)	100	0	
9/13/2022 11:00	16.8	7	12	ENE (63)	84	0	
9/13/2022 12:00	18.2	8	14	ENE (78)	82	0	
9/13/2022 13:00	19.4	6	14	NNW (336)	67	0	
9/13/2022 14:00	20.4	6	20	WNW (303)	58	0	
9/13/2022 15:00	20.3	14	24	N (353)	61	0	
9/13/2022 16:00	20.5	16	25	NW (319)	57	0	
9/13/2022 17:00	20.8	16	25	NW (310)	52	0	
9/13/2022 18:00	20.6	12	21	WNW (290)	56	0	
9/13/2022 19:00	19.2	5	8	WSW (244)	64	0	
9/13/2022 20:00	17.6	6	10	SW (232)	69	0	
9/13/2022 21:00	16.9	6	9	SSW (210)	73	0	
9/13/2022 22:00	16	6	10	WSW (243)	79	0	
9/13/2022 23:00	14.8	7	10	W (262)	82	0	
9/14/2022 0:00	15	7	9	WSW (244)	81	0	
9/14/2022 1:00	15.1	7	9	W (266)	88	0	
9/14/2022 2:00	15.4	6	9	WNW (293)	100	0	
9/14/2022 3:00	14.6	5	8	SW (234)	100	0	
9/14/2022 4:00	14.4	6	8	SW (231)	100	0	
9/14/2022 5:00	13.6	6	10	SW (225)	100	0	
9/14/2022 6:00	13.7	6	9	SW (222)	100	0	
9/14/2022 7:00	14	6	9	SW (225)	100	0	
9/14/2022 8:00	14.6	8	11	WSW (244)	100	0	0.4
9/14/2022 9:00	10.4	7	13	WNW (301)	100	0	
9/14/2022 10:00	11	15	24	NW (312)	100	0	
9/14/2022 11:00	20.9	18	30	WNW (298)	70	0	
9/14/2022 12:00	20.8	19	30	N (4)	72	0	
9/14/2022 13:00	20.8	20	30	NNW (338)	71	0	
9/14/2022 14:00	21	17	29	NW (312)	69	0	
9/14/2022 15:00	21.1	17	27	NNW (328)	66	0	
9/14/2022 16:00	20.8	16	27	NW (326)	66	0	
9/14/2022 17:00	20	16	28	NNE (22)	67	0	
9/14/2022 18:00	19	15	25	N (11)	68	0	
9/14/2022 19:00	17.5	12	24	N (352)	73	0	
9/14/2022 20:00	15.9	6	14	ENE (61)	79	0	
9/14/2022 21:00	14.7	5	8	NNE (21)	80	0	
9/14/2022 22:00	14.1	7	10	NNE (27)	80	0	
9/14/2022 23:00	13.2	8	13	NE (51)	82	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/15/2022 0:00	12.8	9	14	ENE (66)	83	0	
9/15/2022 1:00	12.4	9	15	ENE (77)	82	0	
9/15/2022 2:00	11.9	9	13	E (85)	82	0	
9/15/2022 3:00	11.4	11	15	ENE (76)	84	0	
9/15/2022 4:00	10.6	11	14	ENE (65)	88	0	
9/15/2022 5:00	10.1	12	15	E (80)	88	0	
9/15/2022 6:00	9.7	11	13	E (86)	88	0	
9/15/2022 7:00	9.4	4	9	ENE (60)	87	0	
9/15/2022 8:00	10.5	8	15	E (92)	86	0	0
9/15/2022 9:00	12.7	12	17	E (87)	75	0	
9/15/2022 10:00	14.5	10	16	ENE (74)	67	0	
9/15/2022 11:00	15.7	7	16	E (86)	58	0	
9/15/2022 12:00	16.9	7	15	E (87)	52	0	
9/15/2022 13:00	18.3	5	14	WSW (239)	49	0	
9/15/2022 14:00	19.2	5	12	SW (217)	49	0	
9/15/2022 15:00	19.8	5	14	SE (137)	45	0	
9/15/2022 16:00	20.1	9	16	S (175)	44	0	
9/15/2022 17:00	20.4	8	14	ESE (120)	43	0	
9/15/2022 18:00	19.3	9	22	SE (138)	63	0	
9/15/2022 19:00	16.7	13	20	SE (132)	71	0	
9/15/2022 20:00	15.1	14	20	SSE (156)	76	0	
9/15/2022 21:00	14.6	13	17	SSE (162)	77	0	
9/15/2022 22:00	14	11	16	SSE (160)	80	0	
9/15/2022 23:00	13.7	8	12	SSE (165)	82	0	
9/16/2022 0:00	13.5	10	12	S (169)	83	0	
9/16/2022 1:00	13.7	9	14	SE (141)	84	0	
9/16/2022 2:00	13.5	10	12	S (181)	87	0	
9/16/2022 3:00	13.6	5	11	SSW (192)	90	0	
9/16/2022 4:00	14.2	7	10	S (175)	90	0	
9/16/2022 5:00	14.4	6	10	SSW (212)	100	0	
9/16/2022 6:00	14.7	7	15	SW (215)	100	0	
9/16/2022 7:00	14.3	6	11	SW (223)	100	0	
9/16/2022 8:00	15.9	8	14	SW (235)	100	0	0
9/16/2022 9:00	18.4	11	18	SW (236)	100	0	
9/16/2022 10:00	21.3	11	18	WSW (237)	83	0	
9/16/2022 11:00	23	10	17	W (267)	72	0	
9/16/2022 12:00	24.5	9	21	WSW (237)	65	0	
9/16/2022 13:00	25.4	8	17	WNW (296)	57	0	
9/16/2022 14:00	26.5	5	12	WSW (258)	52	0	
9/16/2022 15:00	27.2	8	19	SW (221)	48	0	
9/16/2022 16:00							
9/16/2022 17:00	26.3	10	17	SSW (192)	50	0	
9/16/2022 18:00	25.8	9	17	SSW (203)	53	0	
9/16/2022 19:00	23.7	7	13	SSE (165)	67	0	
9/16/2022 20:00	21.5	10	13	SSE (159)	75	0	
9/16/2022 21:00	20.4	10	12	SSE (161)	80	0	
9/16/2022 22:00	19.3	11	14	S (170)	83	0	
9/16/2022 23:00	18.8	11	13	SSE (156)	84	0	
9/17/2022 0:00	18.6	11	13	SSE (161)	85	0	
9/17/2022 1:00	18.1	8	13	SSE (152)	94	0	
9/17/2022 2:00	18	8	13	SSE (166)	92	0	
9/17/2022 3:00	17.8	10	13	SE (138)	100	0	
9/17/2022 4:00	17.2	11	16	ESE (122)	100	0	
9/17/2022 5:00	16.4	14	18	ESE (120)	100	0	
9/17/2022 6:00	16	16	20	ESE (121)	100	0	
9/17/2022 7:00	16.5	14	18	ESE (112)	100	0	
9/17/2022 8:00	17.1	14	18	SE (132)	100	0	0
9/17/2022 9:00	18.2	15	20	ESE (121)	100	0	
9/17/2022 10:00	3.4	15	20	SE (127)	100	0	
9/17/2022 11:00	23.5	12	21	S (186)	100	0	
9/17/2022 12:00	25.2	14	22	SSE (160)	65	0	
9/17/2022 13:00	26.2	17	31	SSW (203)	56	0	
9/17/2022 14:00	26.4	18	30	SSE (158)	52	0	
9/17/2022 15:00	26.7	17	31	S (182)	50	0	
9/17/2022 16:00	27.2	17	28	SSE (162)	45	0	
9/17/2022 17:00	27.2	16	28	SSE (167)	55	0	
9/17/2022 18:00	25.5	16	25	SSE (165)	60	0	
9/17/2022 19:00	23.8	16	23	SSE (163)	67	0	
9/17/2022 20:00	22.2	12	17	SSE (162)	74	0	
9/17/2022 21:00	21.2	12	16	S (173)	77	0	
9/17/2022 22:00	21.1	12	19	SSE (166)	76	0	
9/17/2022 23:00	20.7	10	18	S (183)	78	0	
9/18/2022 0:00	20.8	11	18	SSE (166)	78	0	
9/18/2022 1:00	20.8	10	19	SW (216)	79	0	
9/18/2022 2:00	20.7	12	22	SW (223)	79	0	
9/18/2022 3:00	20.1	13	20	SSW (200)	83	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/18/2022 4:00	19.8	11	19	SSW (211)	84	0	
9/18/2022 5:00	20	12	19	SSW (212)	83	0	
9/18/2022 6:00	19.8	14	21	SSW (206)	84	0	
9/18/2022 7:00	19.7	14	22	SSW (201)	83	0	
9/18/2022 8:00	20.2	12	20	SW (227)	82	0	0
9/18/2022 9:00	21.9	15	23	SW (226)	78	0	
9/18/2022 10:00	22.4	14	28	SW (221)	74	0	
9/18/2022 11:00	22.9	12	19	SW (222)	73	0	
9/18/2022 12:00	22.6	12	27	SSW (197)	76	0	
9/18/2022 13:00	23.9	16	29	SW (214)	68	0	
9/18/2022 14:00	26.4	20	31	SW (236)	58	0	
9/18/2022 15:00	27.2	23	36	WSW (242)	53	0	
9/18/2022 16:00	28	22	36	WSW (242)	50	0	
9/18/2022 17:00	28	19	29	SW (230)	50	0	
9/18/2022 18:00	26.9	18	31	SSW (204)	54	0	
9/18/2022 19:00	25.4	17	28	SW (216)	61	0	
9/18/2022 20:00	24.2	17	26	SW (228)	65	0	
9/18/2022 21:00	23.3	12	22	SW (234)	70	0	
9/18/2022 22:00	21.9	9	16	SW (215)	75	0	
9/18/2022 23:00	21.1	8	12	SW (234)	78	0	
9/19/2022 0:00	20.8	8	11	S (181)	82	0	
9/19/2022 1:00	20.4	8	14	S (190)	82	0	
9/19/2022 2:00	20.2	9	17	WSW (239)	84	0	
9/19/2022 3:00	19.7	8	16	SW (229)	86	0	
9/19/2022 4:00	19.9	10	17	S (189)	85	0	
9/19/2022 5:00	19.2	8	17	WSW (244)	97	0	
9/19/2022 6:00	18.5	5	10	SSW (213)	100	0	
9/19/2022 7:00	18.8	17	38	WSW (253)	100	11	
9/19/2022 8:00	18.8	11	33	NW (316)	100	8.4	19.4
9/19/2022 9:00	20.1	10	17	NNW (332)	100	0	
9/19/2022 10:00	22.3	19	31	NW (307)	86	0	
9/19/2022 11:00	22.9	18	28	NW (309)	77	0	
9/19/2022 12:00	22.9	20	31	WNW (298)	76	0	
9/19/2022 13:00	23.1	21	42	NNW (343)	77	0	
9/19/2022 14:00	22.3	17	34	NW (324)	73	0	
9/19/2022 15:00	22.5	16	28	NW (304)	67	0	
9/19/2022 16:00	22.4	15	26	NW (318)	65	0	
9/19/2022 17:00	22.3	12	23	N (1)	61	0	
9/19/2022 18:00	21.8	8	19	NW (317)	65	0	
9/19/2022 19:00	20.1	5	8	WSW (256)	75	0	
9/19/2022 20:00	18.6	2	5	NW (308)	82	0	
9/19/2022 21:00	17	2	7	WNW (291)	87	0	
9/19/2022 22:00	16.8	0	1	WSW (253)	92	0	
9/19/2022 23:00	15.9	2	5	WSW (252)	100	0	
9/20/2022 0:00	14.3	5	9	SW (236)	100	0	
9/20/2022 1:00	14.4	6	9	WSW (257)	100	0	
9/20/2022 2:00	14.4	6	8	SW (235)	100	0	
9/20/2022 3:00	14.2	5	8	WSW (252)	100	0	
9/20/2022 4:00	13.9	5	11	WSW (240)	100	0	
9/20/2022 5:00	13.9	9	11	SW (222)	100	0	
9/20/2022 6:00	13.8	7	9	SSW (213)	100	0	
9/20/2022 7:00	14.1	6	8	SW (230)	100	0	
9/20/2022 8:00	15.3	6	12	W (273)	100	0	0
9/20/2022 9:00	18.4	10	16	NW (307)	100	0	
9/20/2022 10:00	20.2	11	17	NW (305)	90	0	
9/20/2022 11:00	21.4	13	21	NW (304)	73	0	
9/20/2022 12:00	22.4	17	27	WNW (301)	67	0	
9/20/2022 13:00	22.8	16	24	WNW (292)	59	0	
9/20/2022 14:00	23.3	10	22	W (277)	53	0	
9/20/2022 15:00	23.9	5	12	SE (146)	52	0	
9/20/2022 16:00	25	9	19	SSW (213)	51	0	
9/20/2022 17:00	24.2	10	19	S (176)	49	0	
9/20/2022 18:00	23.1	5	9	S (180)	61	0	
9/20/2022 19:00	21.7	10	16	SSW (202)	63	0	
9/20/2022 20:00	20.7	9	13	SSE (166)	68	0	
9/20/2022 21:00	19.8	9	13	SSE (147)	71	0	
9/20/2022 22:00	19.5	10	16	SSW (202)	71	0	
9/20/2022 23:00	19.2	9	15	S (186)	72	0	
9/21/2022 0:00	18.7	8	16	SSW (199)	78	0	
9/21/2022 1:00	18.9	11	19	SW (216)	79	0	
9/21/2022 2:00	18.5	8	14	S (186)	80	0	
9/21/2022 3:00	18.4	7	11	SSE (164)	84	0	
9/21/2022 4:00	18.2	6	12	SW (214)	85	0	
9/21/2022 5:00	18.4	10	20	S (180)	86	0	
9/21/2022 6:00	18.4	13	19	S (185)	93	0	
9/21/2022 7:00	18.4	16	25	SSE (168)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/21/2022 8:00	19.9	18	29	S (170)	91	0	0
9/21/2022 9:00	21.7	19	34	S (186)	80	0	
9/21/2022 10:00	22.3	18	31	SW (224)	80	0	
9/21/2022 11:00	21.8	16	32	SW (223)	93	1.6	
9/21/2022 12:00	20.8	12	30	E (101)	100	2.2	
9/21/2022 13:00	22.3	11	38	ESE (122)	98	0	
9/21/2022 14:00	23.6	20	30	S (179)	85	0	
9/21/2022 15:00	24.2	13	25	SSW (197)	76	0	
9/21/2022 16:00	24.4	15	25	SW (233)	77	0	
9/21/2022 17:00	25	13	19	SW (231)	76	0	
9/21/2022 18:00	24.9	10	17	WSW (250)	78	0	
9/21/2022 19:00	23.8	7	13	W (267)	87	0	
9/21/2022 20:00	23.6	12	32	NW (312)	90	0	
9/21/2022 21:00	23	27	40	NW (312)	70	0	
9/21/2022 22:00	20.6	22	40	NW (319)	80	0	
9/21/2022 23:00	19.2	17	31	NW (325)	80	0	
9/22/2022 0:00	18.6	22	33	NW (325)	65	0	
9/22/2022 1:00	18	23	35	NW (319)	61	0	
9/22/2022 2:00	17.3	22	36	NW (311)	70	0	
9/22/2022 3:00	16.4	18	29	NW (314)	73	0	
9/22/2022 4:00	15.4	19	31	NW (312)	72	0	
9/22/2022 5:00	15	22	39	NW (309)	69	0	
9/22/2022 6:00	13.9	27	39	NW (322)	69	0	
9/22/2022 7:00	13.2	27	38	WNW (297)	65	0	
9/22/2022 8:00	12.9	30	46	NW (306)	64	0	3.8
9/22/2022 9:00	12.8	34	45	NW (307)	67	0	
9/22/2022 10:00	12.9	34	51	NW (308)	67	0	
9/22/2022 11:00	11.9	33	52	NW (313)	83	0.6	
9/22/2022 12:00	11.7	33	49	NW (310)	97	1.6	
9/22/2022 13:00	12.3	30	54	WNW (299)	91	0.2	
9/22/2022 14:00	12.6	32	53	NW (325)	74	0.4	
9/22/2022 15:00	11.9	27	47	NNW (328)	78	0.4	
9/22/2022 16:00	13.2	30	50	NW (323)	65	0	
9/22/2022 17:00	13.3	35	53	NW (305)	54	0	
9/22/2022 18:00	12.6	28	49	NNW (331)	59	0	
9/22/2022 19:00	12	20	39	NW (304)	62	0	
9/22/2022 20:00	12.5	18	31	NNW (327)	62	0	
9/22/2022 21:00	12.3	16	32	NNW (333)	60	0	
9/22/2022 22:00	12	17	28	NW (322)	62	0	
9/22/2022 23:00	11.8	19	32	NW (318)	61	0	
9/23/2022 0:00	11.7	13	25	NW (322)	64	0	
9/23/2022 1:00	11.7	11	24	NNE (18)	67	0	
9/23/2022 2:00	11	12	25	NE (56)	61	0	
9/23/2022 3:00	9.6	9	18	N (8)	64	0	
9/23/2022 4:00	8.2	8	14	ENE (64)	68	0	
9/23/2022 5:00	7.8	10	19	ENE (57)	69	0	
9/23/2022 6:00	6.5	7	12	ENE (58)	74	0	
9/23/2022 7:00	6.4	5	10	E (89)	76	0	
9/23/2022 8:00	8.4	7	15	NE (40)	70	0	3.2
9/23/2022 9:00	9.9	11	19	NE (55)	61	0	
9/23/2022 10:00	11	11	19	N (0)	58	0	
9/23/2022 11:00	12.1	10	21	NE (39)	58	0	
9/23/2022 12:00	13	11	23	N (1)	56	0	
9/23/2022 13:00	13.7	9	18	NW (305)	56	0	
9/23/2022 14:00	14.3	11	23	WNW (299)	52	0	
9/23/2022 15:00	14.3	11	22	NNE (20)	51	0	
9/23/2022 16:00	14.4	11	20	NW (319)	49	0	
9/23/2022 17:00	14.5	7	16	NNW (331)	49	0	
9/23/2022 18:00	13.9	4	9	NE (41)	59	0	
9/23/2022 19:00	12.7	5	10	E (85)	67	0	
9/23/2022 20:00	11.2	7	10	ENE (71)	72	0	
9/23/2022 21:00	10.8	6	10	E (88)	76	0	
9/23/2022 22:00	9.9	6	10	ESE (117)	79	0	
9/23/2022 23:00	9.4	7	11	ESE (102)	81	0	
9/24/2022 0:00	9.4	3	13	SSE (159)	81	0	
9/24/2022 1:00	9.2	6	12	SSW (194)	82	0	
9/24/2022 2:00	8.4	5	8	SSE (158)	85	0	
9/24/2022 3:00	8.7	3	9	SSE (148)	81	0	
9/24/2022 4:00	9.7	8	14	SSE (159)	74	0	
9/24/2022 5:00	9.8	11	14	SE (131)	73	0	
9/24/2022 6:00	9.2	10	14	SE (128)	77	0	
9/24/2022 7:00	9	11	16	SE (127)	77	0	
9/24/2022 8:00	10.4	15	17	ESE (116)	72	0	0
9/24/2022 9:00	12.2	14	19	SE (124)	72	0	
9/24/2022 10:00	13.5	13	17	SSE (149)	72	0	
9/24/2022 11:00	15	15	23	SSW (198)	67	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/24/2022 12:00	15.5	15	22	SSE (153)	64	0	
9/24/2022 13:00	15.3	14	20	SE (143)	71	0	
9/24/2022 14:00	14.7	13	22	SE (141)	77	0	
9/24/2022 15:00	14.9	13	20	SE (125)	76	0	
9/24/2022 16:00	15.2	14	21	SSE (155)	75	0	
9/24/2022 17:00	15	13	20	SSE (160)	74	0	
9/24/2022 18:00	14.9	10	16	SSE (153)	74	0	
9/24/2022 19:00	14.4	8	11	SSE (148)	80	0.2	
9/24/2022 20:00	14	9	12	SE (130)	82	0	
9/24/2022 21:00	13.8	10	14	SE (129)	82	0	
9/24/2022 22:00	13.9	10	14	SSE (156)	79	0	
9/24/2022 23:00	13.8	8	12	ESE (119)	82	0	
9/25/2022 0:00	13.5	12	16	SE (127)	84	0	
9/25/2022 1:00	13.6	10	14	SSE (155)	87	0	
9/25/2022 2:00	14.3	10	15	S (182)	87	0	
9/25/2022 3:00	14.4	11	20	SW (226)	100	0.2	
9/25/2022 4:00	13.7	6	13	W (270)	100	0.6	
9/25/2022 5:00	13.5	1	5	WNW (292)	100	0.6	
9/25/2022 6:00	13.4	3	6	WSW (255)	100	0	
9/25/2022 7:00	-39.4	4	10	WNW (288)	100	0.2	
9/25/2022 8:00	-79.4	6	10	W (278)	1	0.2	2
9/25/2022 9:00	-5.9	10	19	WNW (300)	100	0	
9/25/2022 10:00	15	11	17	NW (324)	100	0	
9/25/2022 11:00	15.5	15	24	WNW (302)	98	0	
9/25/2022 12:00	16.1	15	25	WSW (250)	95	0	
9/25/2022 13:00	16.4	15	25	WNW (294)	81	0	
9/25/2022 14:00	16.4	13	23	W (276)	73	0	
9/25/2022 15:00	16.4	16	32	WNW (300)	87	0	
9/25/2022 16:00	15.2	16	35	W (280)	87	0	
9/25/2022 17:00	15.4	14	25	W (263)	82	0	
9/25/2022 18:00	15.2	14	24	W (274)	81	0	
9/25/2022 19:00	14.7	13	22	W (271)	70	0	
9/25/2022 20:00	14	15	31	WNW (302)	71	0	
9/25/2022 21:00	13.4	12	22	NW (305)	76	0	
9/25/2022 22:00	12.4	11	27	WSW (254)	83	0	
9/25/2022 23:00	11.3	11	17	WSW (250)	87	0	
9/26/2022 0:00	10.3	12	18	SW (235)	100	0	
9/26/2022 1:00	9.8	12	17	SW (236)	100	0	
9/26/2022 2:00	10	11	17	WSW (252)	100	0	
9/26/2022 3:00	9.7	9	12	SW (235)	100	0	
9/26/2022 4:00	10.1	10	20	SW (233)	100	0	
9/26/2022 5:00	10.6	13	20	WSW (253)	100	0	
9/26/2022 6:00	10.6	14	21	WSW (249)	100	0	
9/26/2022 7:00	11	19	31	WSW (239)	100	0	
9/26/2022 8:00	11	20	31	WSW (252)	96	0	0
9/26/2022 9:00	11	22	34	WSW (237)	100	0.4	
9/26/2022 10:00	11.2	22	34	WSW (246)	100	0	
9/26/2022 11:00	11.7	22	33	WSW (257)	100	0.2	
9/26/2022 12:00	13.1	23	36	WSW (242)	96	0	
9/26/2022 13:00	12.8	21	36	WNW (301)	100	2.4	
9/26/2022 14:00	11.8	14	24	W (274)	100	4	
9/26/2022 15:00	12.5	18	33	W (270)	100	4.6	
9/26/2022 16:00	12.6	19	30	WSW (256)	100	1	
9/26/2022 17:00	13.5	21	34	W (273)	99	0	
9/26/2022 18:00	12.4	18	33	W (270)	100	0	
9/26/2022 19:00	12.4	16	31	WNW (293)	100	0.6	
9/26/2022 20:00	12.4	17	27	W (259)	100	0	
9/26/2022 21:00	12.2	16	32	WNW (291)	100	0.2	
9/26/2022 22:00	11.8	16	25	WSW (255)	100	0	
9/26/2022 23:00	11.9	16	24	WSW (258)	100	0	
9/27/2022 0:00	11.9	17	26	NNW (336)	100	0	
9/27/2022 1:00	11.7	16	25	W (269)	100	0	
9/27/2022 2:00	11.4	15	23	WSW (258)	100	0	
9/27/2022 3:00	11.2	17	27	WSW (245)	100	0	
9/27/2022 4:00	11	17	26	WSW (257)	98	0	
9/27/2022 5:00	10.6	18	27	W (266)	100	0	
9/27/2022 6:00	10.3	17	27	W (262)	100	0	
9/27/2022 7:00	10.2	15	24	WSW (255)	100	0	
9/27/2022 8:00	10.3	16	27	W (259)	100	0	13.4
9/27/2022 9:00	10.6	16	29	W (263)	96	0	
9/27/2022 10:00	11.3	17	27	WNW (296)	84	0	
9/27/2022 11:00	11.6	20	32	W (262)	81	0	
9/27/2022 12:00	11.6	21	32	W (278)	80	0	
9/27/2022 13:00	11.8	19	33	WSW (248)	79	0	
9/27/2022 14:00	12.1	20	33	WNW (290)	77	0	
9/27/2022 15:00	12.4	21	34	WSW (258)	81	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/27/2022 16:00	12.2	21	33	W (278)	100	0.2	
9/27/2022 17:00	11	16	27	W (265)	100	2	
9/27/2022 18:00	11.1	13	22	WNW (292)	100	2.6	
9/27/2022 19:00	10.8	15	23	W (268)	100	2.2	
9/27/2022 20:00	10.8	16	28	WSW (253)	100	2.6	
9/27/2022 21:00	11	12	25	WNW (301)	100	9.4	
9/27/2022 22:00	11.6	9	17	NW (307)	100	0.2	
9/27/2022 23:00	11.5	13	31	NW (314)	100	0.2	
9/28/2022 0:00	11.1	17	32	NW (320)	100	1.4	
9/28/2022 1:00	10.9	19	30	WNW (289)	100	3.4	
9/28/2022 2:00	10.9	17	27	NW (320)	100	1.2	
9/28/2022 3:00	10.5	8	23	NNW (345)	100	4.8	
9/28/2022 4:00	10.2	5	12	NE (43)	100	2.2	
9/28/2022 5:00	10.1	4	12	E (96)	100	1.4	
9/28/2022 6:00	9.8	3	9	E (87)	100	3	
9/28/2022 7:00	9.8	3	7	NW (323)	100	1.8	
9/28/2022 8:00	10.2	6	14	N (5)	100	0.4	39
9/28/2022 9:00	10.8	9	16	N (2)	100	0	
9/28/2022 10:00	11.3	11	22	NNW (331)	96	0	
9/28/2022 11:00	12.2	13	23	N (351)	89	0	
9/28/2022 12:00	12.7	17	30	N (0)	77	0	
9/28/2022 13:00	12.9	17	32	NW (326)	76	0	
9/28/2022 14:00	13	19	31	N (9)	76	0	
9/28/2022 15:00	12.9	18	31	NNW (328)	75	0	
9/28/2022 16:00	12.7	19	33	N (0)	73	0	
9/28/2022 17:00	12	16	28	N (1)	76	0	
9/28/2022 18:00	11	12	25	NW (325)	95	0	
9/28/2022 19:00	10.2	9	17	NE (34)	100	0	
9/28/2022 20:00	9.9	6	13	NNE (32)	100	0	
9/28/2022 21:00	10	5	10	NNE (25)	96	0	
9/28/2022 22:00	10.1	5	9	NE (50)	84	0	
9/28/2022 23:00	10.2	4	8	NE (47)	80	0	
9/29/2022 0:00	10.1	3	6	NE (45)	81	0	
9/29/2022 1:00	10	2	4	E (84)	81	0	
9/29/2022 2:00	10.1	4	7	ESE (118)	81	0	
9/29/2022 3:00	9.9	4	7	SW (231)	88	0	
9/29/2022 4:00	9.5	3	6	WSW (241)	94	0	
9/29/2022 5:00	9.6	3	5	SW (226)	98	0	
9/29/2022 6:00	9.5	3	6	SSW (199)	98	0	
9/29/2022 7:00	9.5	2	4	SW (232)	100	0	
9/29/2022 8:00	9.7	3	6	SSW (212)	95	0	0
9/29/2022 9:00	10.5	2	5	S (184)	88	0	
9/29/2022 10:00	11.9	2	7	ENE (61)	79	0	
9/29/2022 11:00	12.9	4	13	ESE (123)	67	0	
9/29/2022 12:00	13.4	5	12	E (93)	64	0	
9/29/2022 13:00	13.9	7	17	NNE (12)	58	0	
9/29/2022 14:00	14.4	8	20	WNW (292)	58	0	
9/29/2022 15:00	15	6	15	N (8)	54	0	
9/29/2022 16:00	15.2	7	15	N (350)	58	0	
9/29/2022 17:00	14.6	11	20	NNW (348)	58	0	
9/29/2022 18:00	13.3	8	17	N (8)	65	0	
9/29/2022 19:00	11.2	5	9	NNE (25)	76	0	
9/29/2022 20:00	9.8	4	7	NE (56)	80	0	
9/29/2022 21:00	9.3	5	10	ESE (102)	84	0	
9/29/2022 22:00	8.6	6	9	E (91)	91	0	
9/29/2022 23:00	7.7	5	7	E (90)	100	0	
9/30/2022 0:00	7.4	5	7	ENE (76)	100	0	
9/30/2022 1:00	7.3	7	11	ESE (103)	100	0	
9/30/2022 2:00	7.1	9	12	ESE (104)	100	0	
9/30/2022 3:00	6.7	8	11	E (101)	100	0	
9/30/2022 4:00	6.3	5	9	E (101)	100	0	
9/30/2022 5:00	6.4	4	7	ENE (76)	100	0	
9/30/2022 6:00	5.9	3	5	E (84)	100	0	
9/30/2022 7:00	5.6	3	5	E (100)	100	0	
9/30/2022 8:00	7.8	4	5	E (95)	100	0	0
9/30/2022 9:00	11.4	8	15	ESE (111)	94	0	
9/30/2022 10:00	13.8	12	17	ESE (122)	63	0	
9/30/2022 11:00	15	10	16	ESE (110)	52	0	
9/30/2022 12:00	16	8	23	ENE (68)	46	0	
9/30/2022 13:00	16.9	8	18	ESE (123)	43	0	
9/30/2022 14:00	17.7	8	18	SW (218)	41	0	
9/30/2022 15:00	18.2	7	17	ENE (64)	41	0	
9/30/2022 16:00	18.6	7	18	NNE (21)	41	0	
9/30/2022 17:00	17.9	10	22	N (6)	56	0	
9/30/2022 18:00	15.4	13	22	N (0)	67	0	
9/30/2022 19:00	12.7	8	13	NNE (15)	80	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/30/2022 20:00	11	8	14	NE (42)	86	0	
9/30/2022 21:00	10.9	8	13	ENE (63)	86	0	
9/30/2022 22:00	10.4	9	15	NNE (16)	86	0	
9/30/2022 23:00	9.9	6	10	ENE (66)	86	0	

Note: where weather measurements are not available, the sound measurements are conservatively assumed to be valid.

ATTACHMENT C

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

Ontario Traffic, Inc.
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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

Ontario Traffic, Inc.
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Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

Ontario Traffic, Inc.
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Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topography Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2

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February 8, 2023

Ms. Angela McLachlan
Environmental Compliance Manager
Waste Management of Canada Corporation
Twin Creeks Environmental Centre
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Warwick Township, County of Lambton N0M 2S0
E: amclachl@wm.com

Re: Fourth Quarter 2022 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2202861-4000

Dear Ms. McLachlan,

Waste Management of Canada Corporation (WM) has retained RWDI to conduct the Fourth Quarter acoustic survey for 2022 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 19, 2020. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and,
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

STATEMENT OF LIMITATIONS

This report entitled Fourth Quarter 2022 Noise Monitoring Report: Twin Creeks Environmental Centre – Watford, ON: RWDI Project #2202861-4000 was prepared by RWDI Air Inc.("RWDI") for Waste Management of Canada Corporation ("Client"). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein ("Project"). The conclusions and recommendations contained in this report are based on the information available to RWDI when this report was prepared.

The conclusions and recommendations contained in this report have also been made for the specific purpose(s) set out herein. Should the Client or any other Fourth party utilize the report and/or implement the conclusions and recommendations contained therein for any other purpose or project without the involvement of RWDI, the Client or such Fourth party assumes any and all risk of any and all consequences arising from such use and RWDI accepts no responsibility for any liability, loss, or damage of any kind suffered by Client or any other Fourth party arising therefrom.

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Finally, it is imperative that the Client and/or any party relying on the conclusions and recommendations in this report carefully review the stated assumptions contained herein and to understand the different factors which may impact the conclusions and recommendations provided.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. Landfilling during the measurement campaign occurred at locations that match both the landfilling stages described in the NMP as "Phase 6 northwest area @ 240m" and "Phase 9 northeast area @ 260 m". Given that the activity measured at the monitors could be due to activity in either of these locations, a conservative approach of evaluating the sound levels at the lower of the limits for the two phases was taken. The associated sound level limits are shown in **Table 3**.

Table 3: Combined sound level limits from Phase 6 northwest area @ 240m and Phase 9 northeast area @ 260 m

Monitor	Phase 6 northwest area @ 240m Limit (dBA)	Phase 9 northeast area @ 260m Limit (dBA)	Combined Lowest Limit (dBA)
M1	61	62	61
M2	63	59	59
M3	55	55	55
M4	55	55	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2022 Fourth Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ value and the average of the $L_{EQ,\ 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ,\ 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ, 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Fourth Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ, 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	70	65	ORNAMENT Modelling	69
M2	64	N/A	Conservatively Assumed to be negligible	64
M3	57	N/A	Conservatively Assumed to be negligible	57
M4	54	N/A	Conservatively Assumed to be negligible	54

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour in which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ, 1\text{-hr}}$ (dBA) [2]	Average Measured $L_{EQ, 1\text{-hr}}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	366	69	64	61
M2	744	Yes	366	64	54	59
M3	744	Yes	366	57	49	55
M4	744	Yes	366	54	50	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-hr}}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	31	33	54	71	89	277	37.1%	25.6%
M2	3	4	0	1	89	277	4.5%	0.4%
M3	1	0	1	3	89	277	0.0%	1.1%
M4	0	0	1	0	89	277	0.0%	0.0%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-hr}}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit in 64 instances during operational hours, 33 of which were greater than three decibels above the limit. During non-operational hours, 125 hourly intervals in excess of the limit were recorded, 71 of which were greater than three decibels above the limit.

At monitor M2, measured hourly sound levels exceeded the hourly limit in 7 instances during operational hours, 4 of which were greater than three decibels above the limit. During non-operational hours, 1 hourly intervals in excess of the limit was recorded, which was also greater than three decibels above the limit.

At monitor M3, measured hourly sound levels exceeded the hourly limit in 1 instance during operational hours, which was not greater than three decibels above the limit. During non-operational hours, 4 hourly intervals in excess of the limit were recorded, 3 of which were greater than three decibels above the limit.

At monitor M4, measured hourly sound levels exceeded the hourly limit in no instances during operational hours. During non-operational hours, 1 hourly interval in excess of the limit was recorded, which was not greater than three decibels above the limit.

Sound level increases of three decibels or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by three decibels or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ,\ 1\text{-}hr}$ levels when the TCEC was operational exceeded the prescribed sound level limits as specified in the NMP at M1 only.

Monitor M1

At monitor M1, measured hourly sound levels exceeded the hourly limit by more than three decibels during 33 hourly intervals. The durations and statistical characteristics of the exceedances were similar to historically-observed M1 exceedances. Additionally, operations logs showed that the sweeper and water trucks were running continuously during the exceedances on October 24th and October 25th at 1 pm. The sweeper was also active during the exceedances on October 25th at 11 am and 12 pm. All of the remaining 29 exceedances of three decibels or more did not occur during sweeper or water truck activity.

A site visit to M1 was conducted by RWDI on December 12, 2022 to investigate exceedances at M1. Sounds at the monitor were characterized by the sweeper during sweeper pass-bys and were otherwise primarily due to passenger and heavy vehicles passing by with birdsong audible during lulls in traffic. Noise from landfilling was not audible at M1, which is consistent with the site visits performed at M1 in 2021 and 2020. Therefore, RWDI concludes that the landfilling is not the source of elevated sound levels at M1.

Monitor M2

At monitor M2, measured hourly sound levels exceeded the hourly limit by more than three decibels during 4 hourly intervals. If these elevated sound levels were due to landfilling activity, levels at monitors other than M2 would register a respective increase in levels. However, the expected increase in sound levels at other monitors during the same time intervals was not present; therefore, the exceedances at M2 were not caused by landfilling but instead local construction activities or an off-site source. It is noteworthy that a gravel stockpile is located near the M2 location, closer than any landfilling activity, and regular activity at this stockpile is likely the source of the exceedances at M2.

Monitor M3

The measured $L_{EQ, 1\text{-}hr}$ values during the Fourth Quarter did not exceed the prescribed sound level limits by three decibels or more at M3 during any hourly interval while the TCEC was operational.

Monitor M4

The measured $L_{EQ, 1\text{-}hr}$ values during the Fourth Quarter did not exceed the prescribed sound level limits by three decibels or more at M4 during any hourly interval while the TCEC was operational.

In summary, none of the events of elevated sound level at the monitors are attributable to landfilling activity in the Fourth Quarter.

CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI AIR Inc.

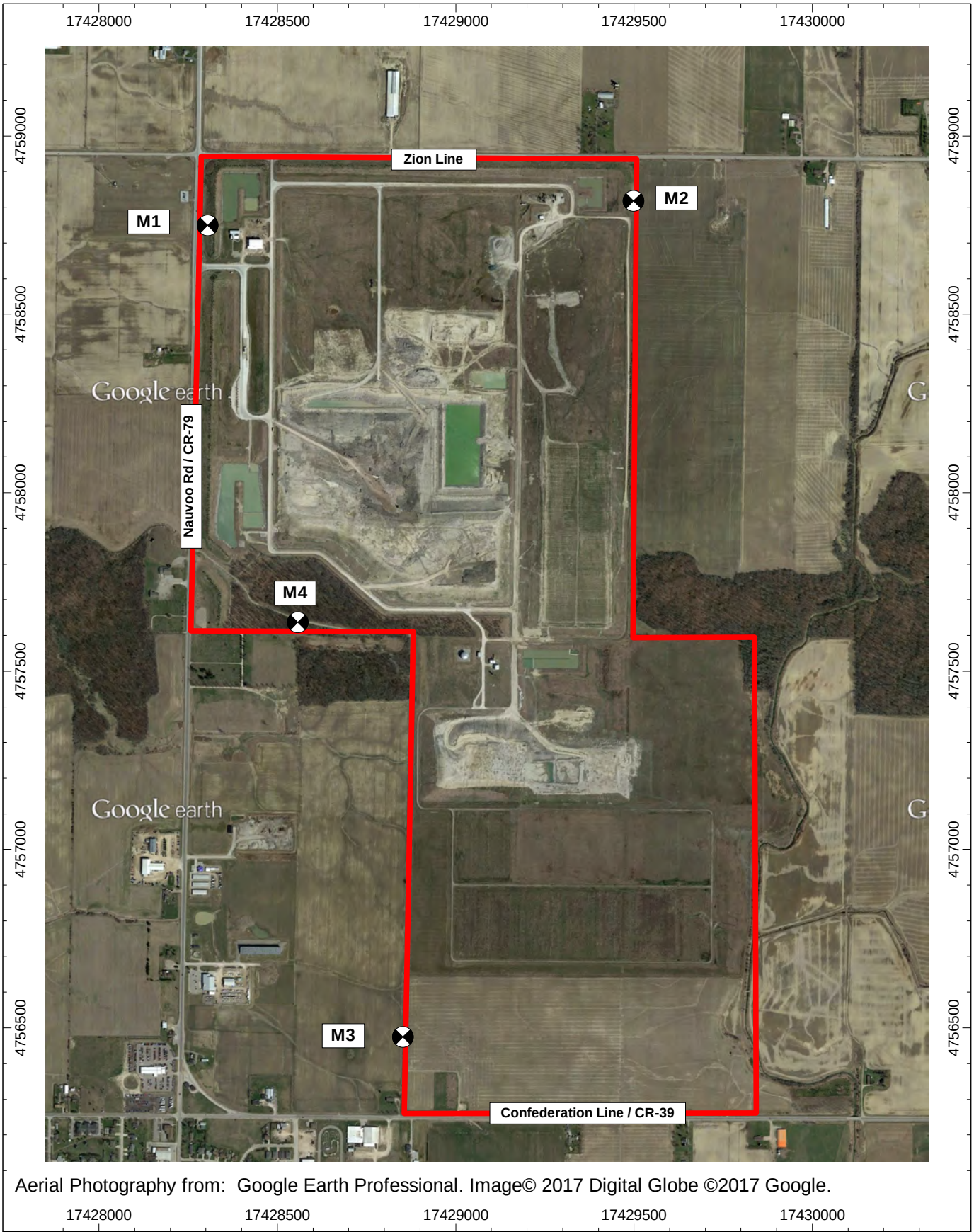
Khalid Hussein, P.Eng.
Project Manager

Brent Langille, B.Sc., P.Geo.
Senior Consultant | Principal

KAMH/BJL/kta

Attach.

FIGURES



Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

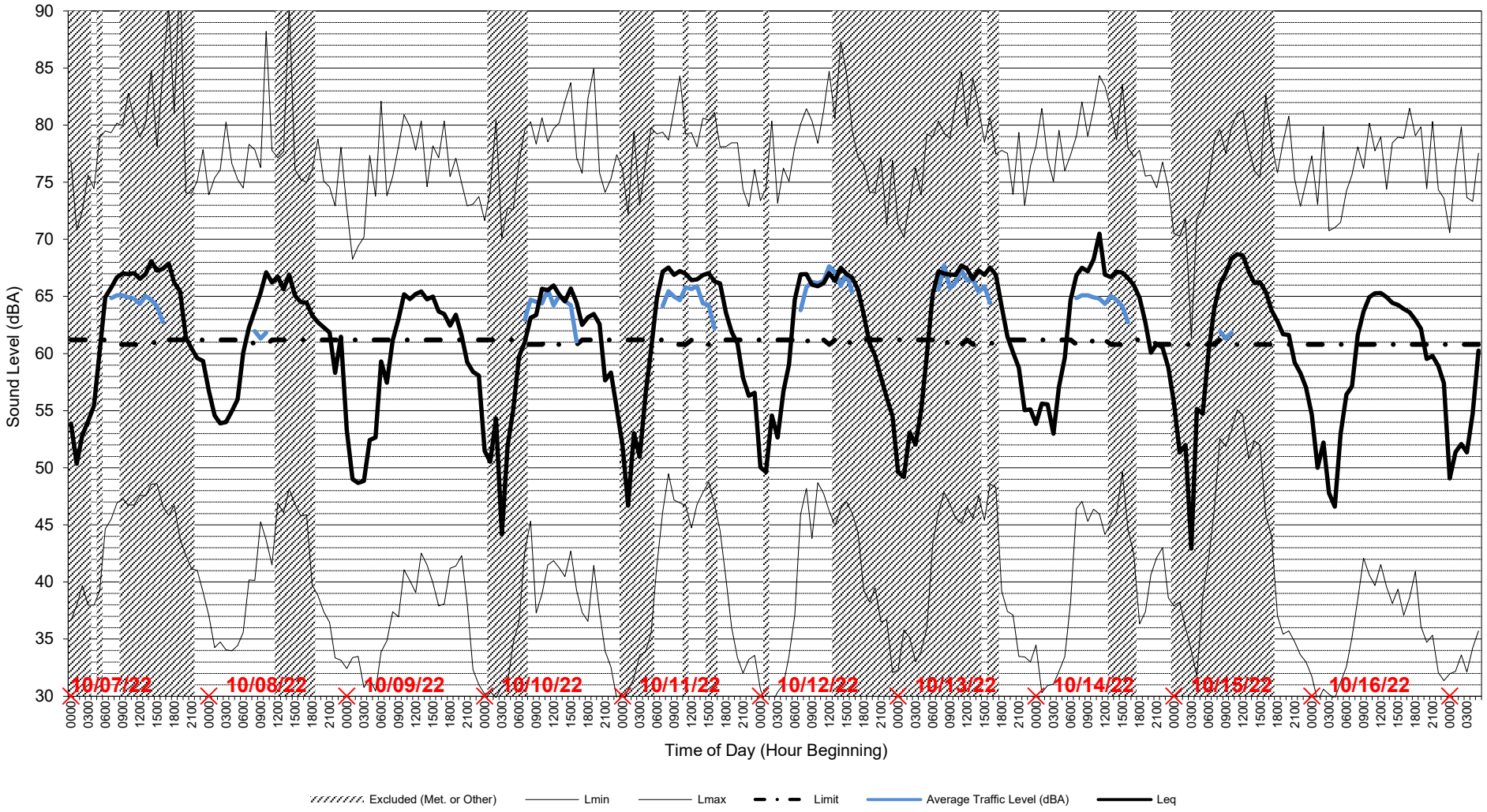
Project #2101781

Drawn by: KAMH Revised by: MFA	Figure: 1
Scale:	1:15000
Date:	Nov. 26, 2019

ATTACHMENT A

Long-Term Measurement Results

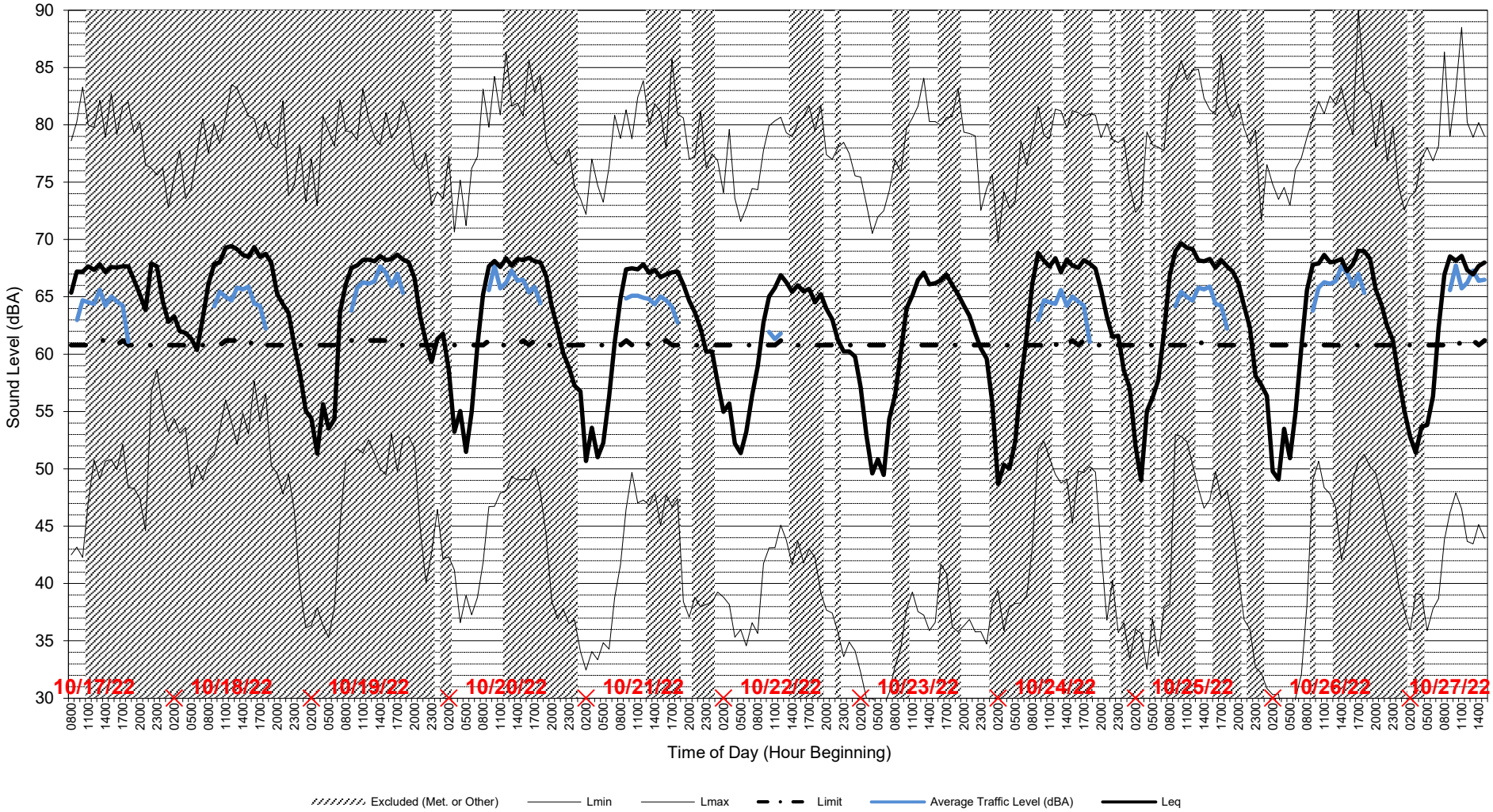
M1



Measured Ambient Sound Levels From Oct 1,2022 to Oct 11,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1a** Date: Feb 02, 2023	

Long-Term Measurement Results

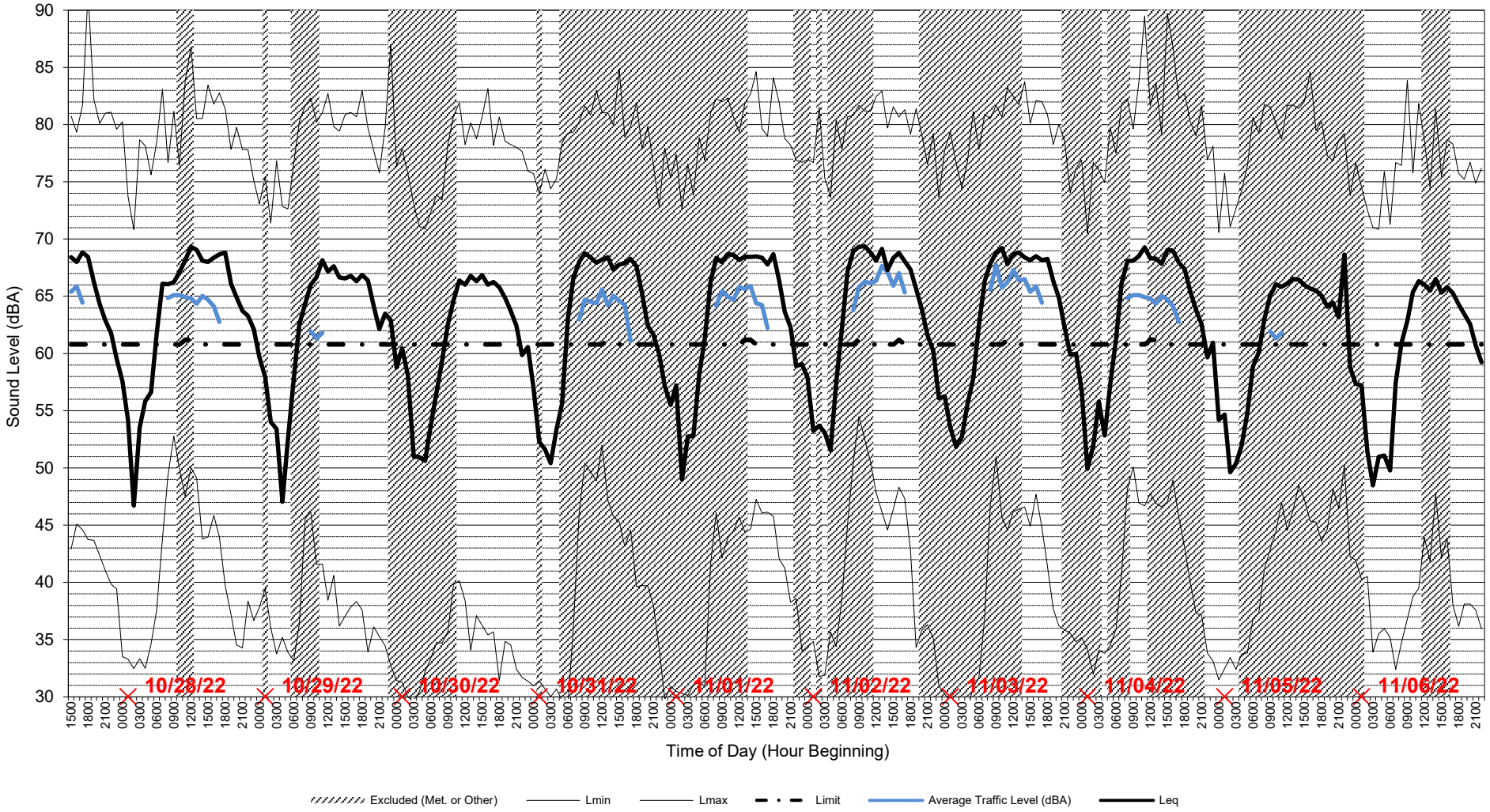
M1



Measured Ambient Sound Levels From Oct 11,2022 to Oct 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1b** Date: Feb 02, 2023	

Long-Term Measurement Results

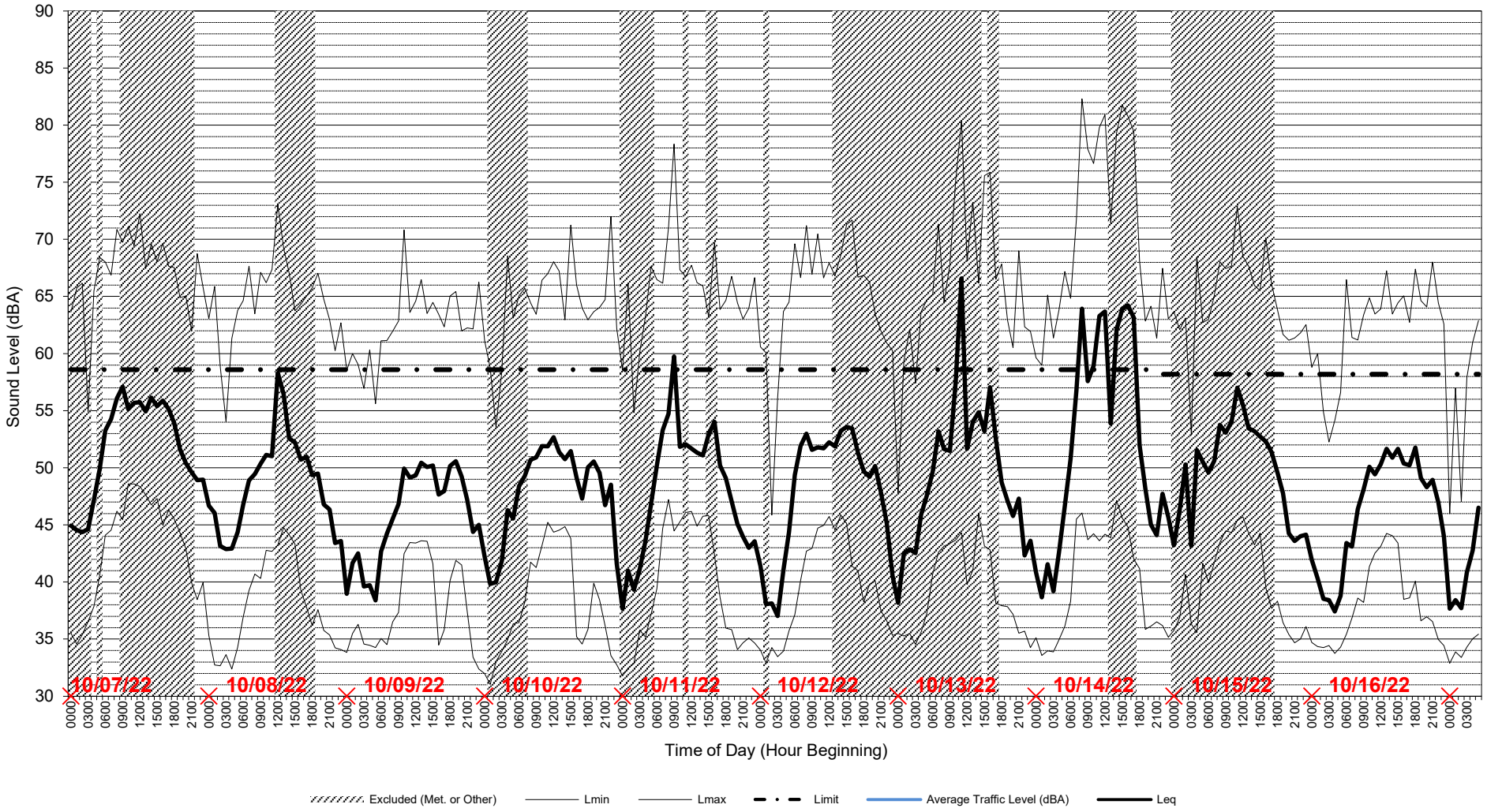
M1



Measured Ambient Sound Levels From Oct 21,2022 to Oct 31,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M1c** Date: Feb 02, 2023	RWDI

Long-Term Measurement Results

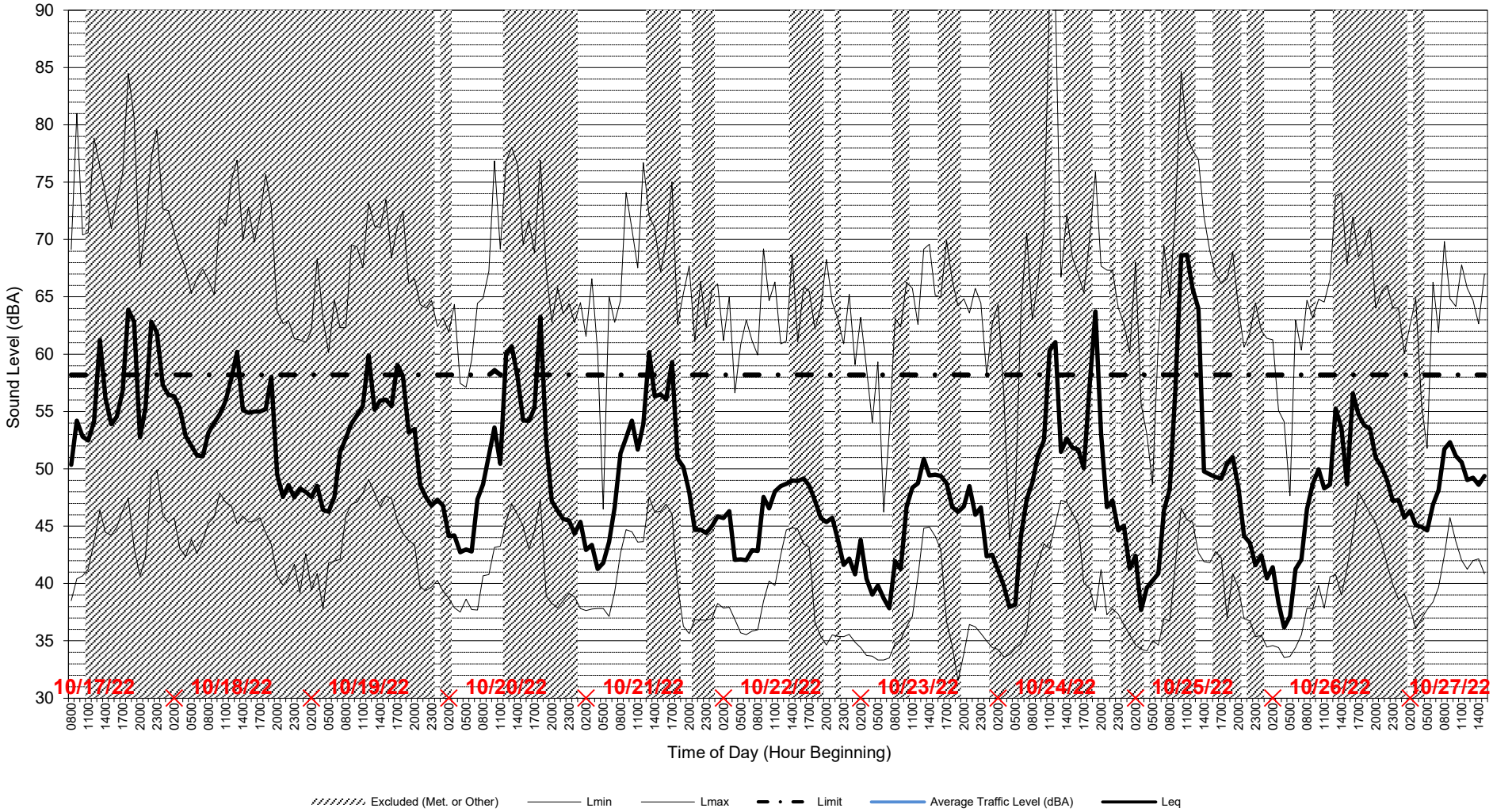
M2



Measured Ambient Sound Levels From Oct 1,2022 to Oct 11,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2a** Date: Feb 02, 2023	

Long-Term Measurement Results

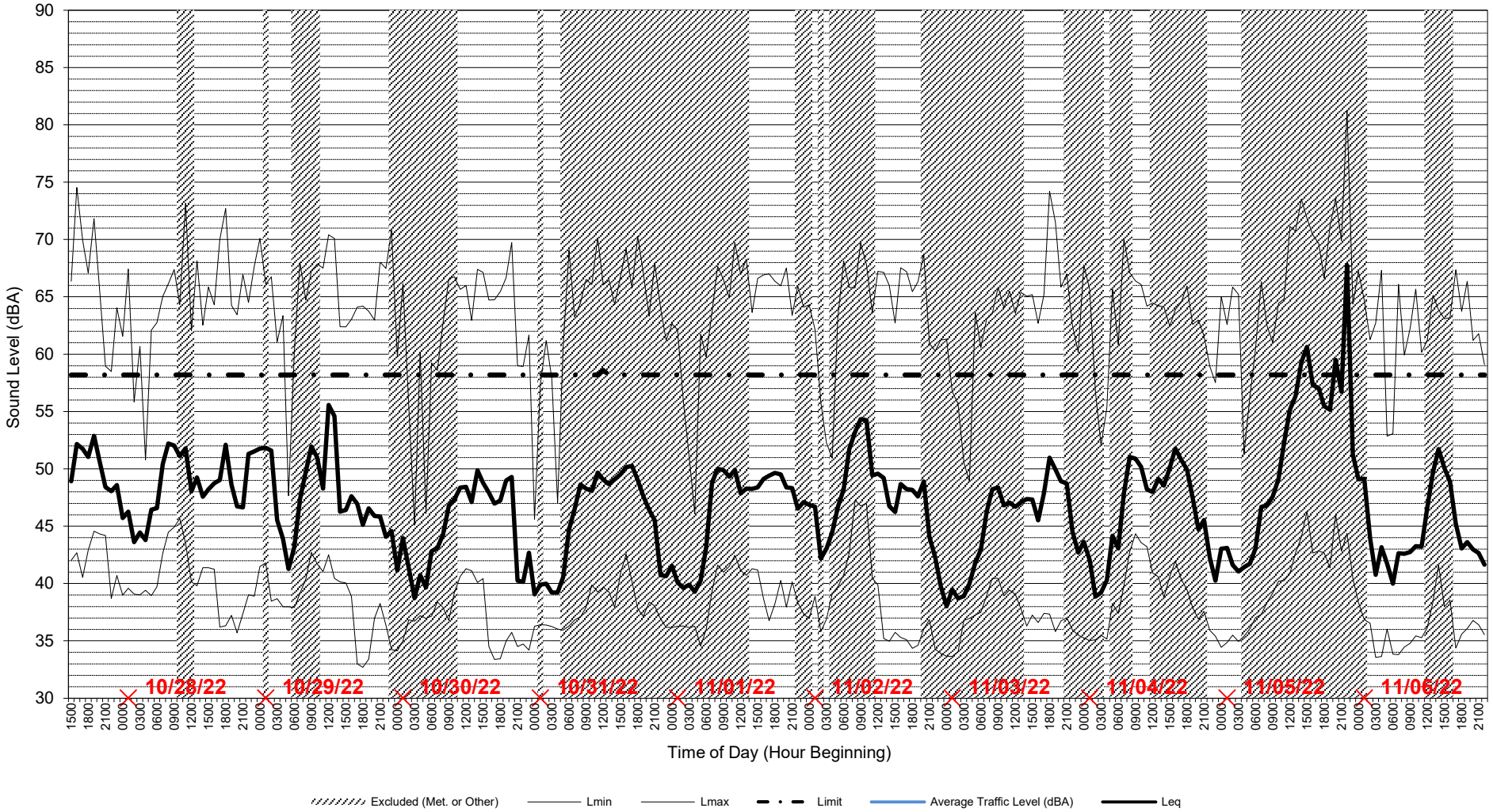
M2



Measured Ambient Sound Levels From Oct 11,2022 to Oct 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M2b** Date: Feb 02, 2023	RWDI

Long-Term Measurement Results

M2



Measured Ambient Sound Levels
From Oct 21,2022 to Oct 31,2022

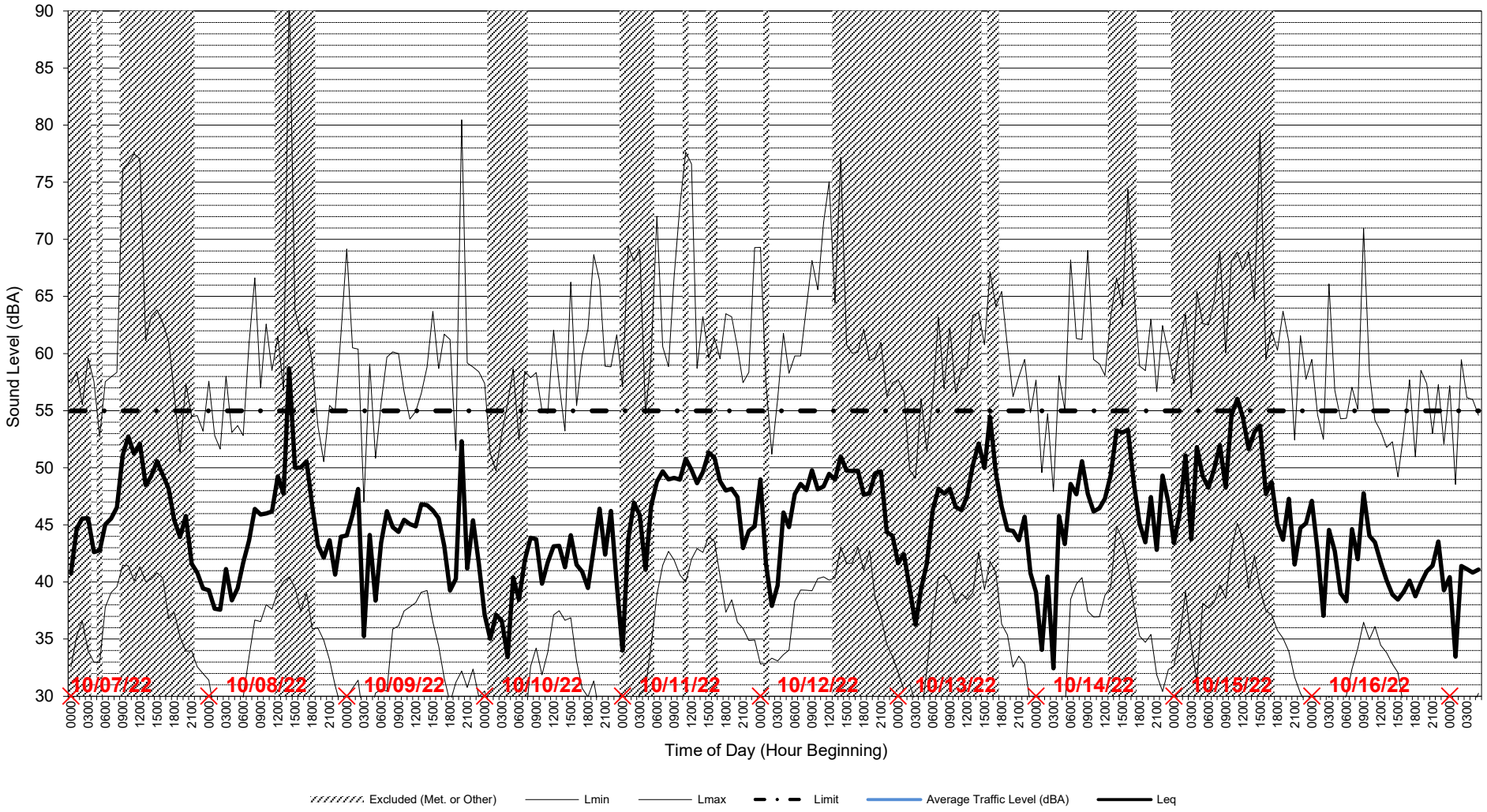
Twin Creeks Environmental Centre Project # 2202861

Figure No. **M2c**

Date: Feb 02, 2023

Long-Term Measurement Results

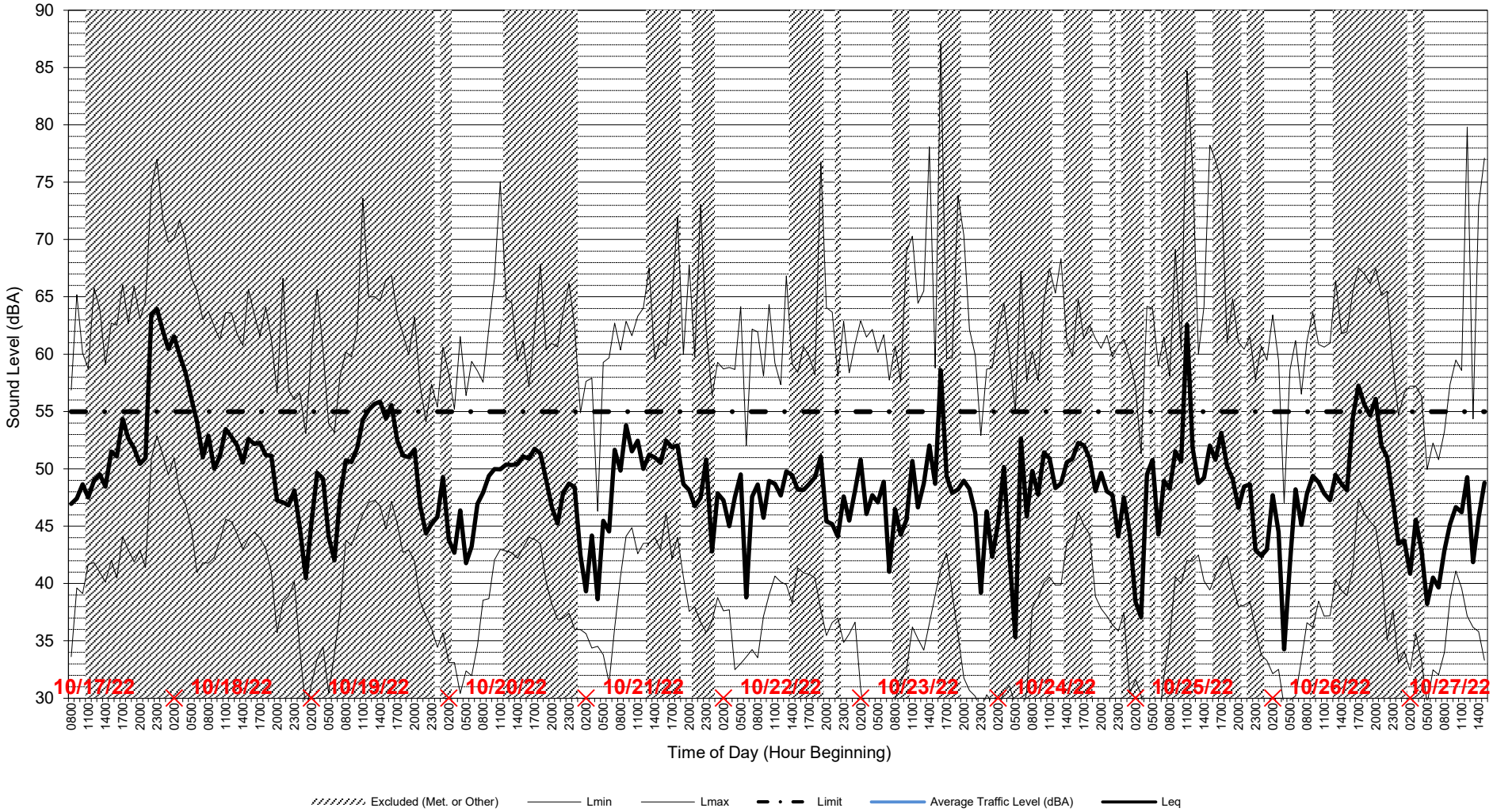
M3



Measured Ambient Sound Levels From Oct 1,2022 to Oct 11,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3a** Date: Feb 02, 2023	

Long-Term Measurement Results

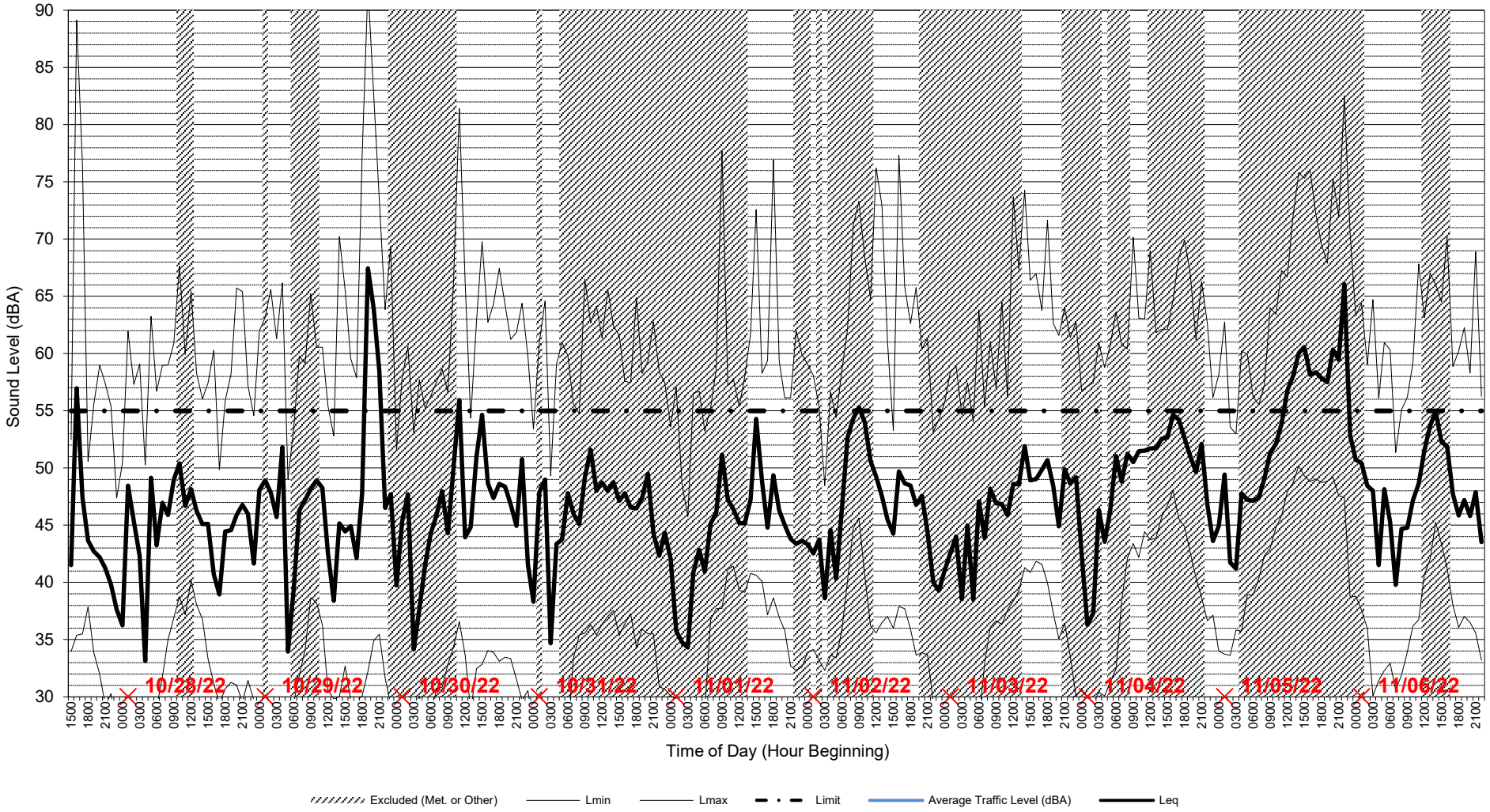
M3



Measured Ambient Sound Levels From Oct 11,2022 to Oct 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3b** Date: Feb 02, 2023	

Long-Term Measurement Results

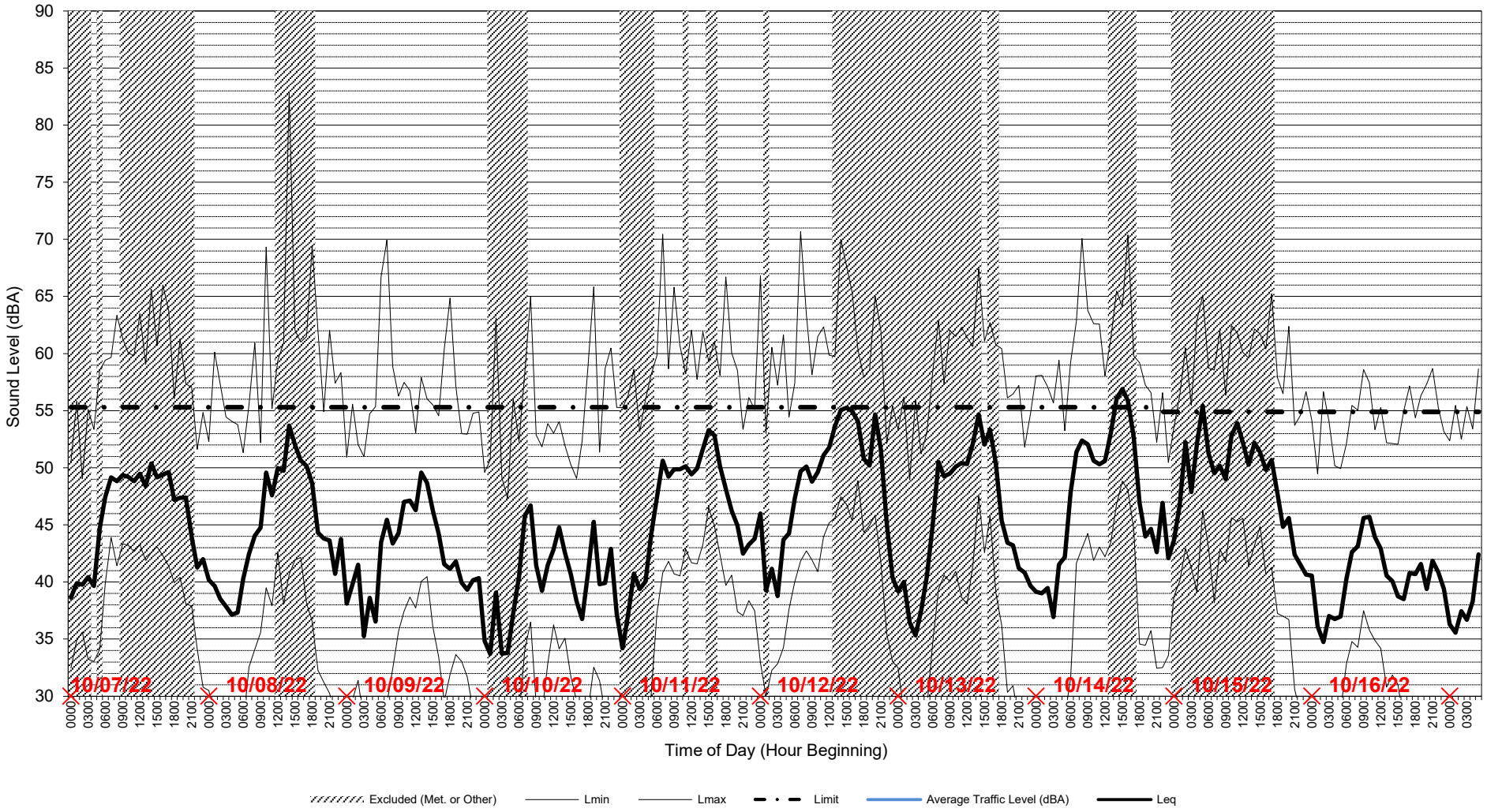
M3



Measured Ambient Sound Levels From Oct 21,2022 to Oct 31,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M3c** Date: Feb 02, 2023	

Long-Term Measurement Results

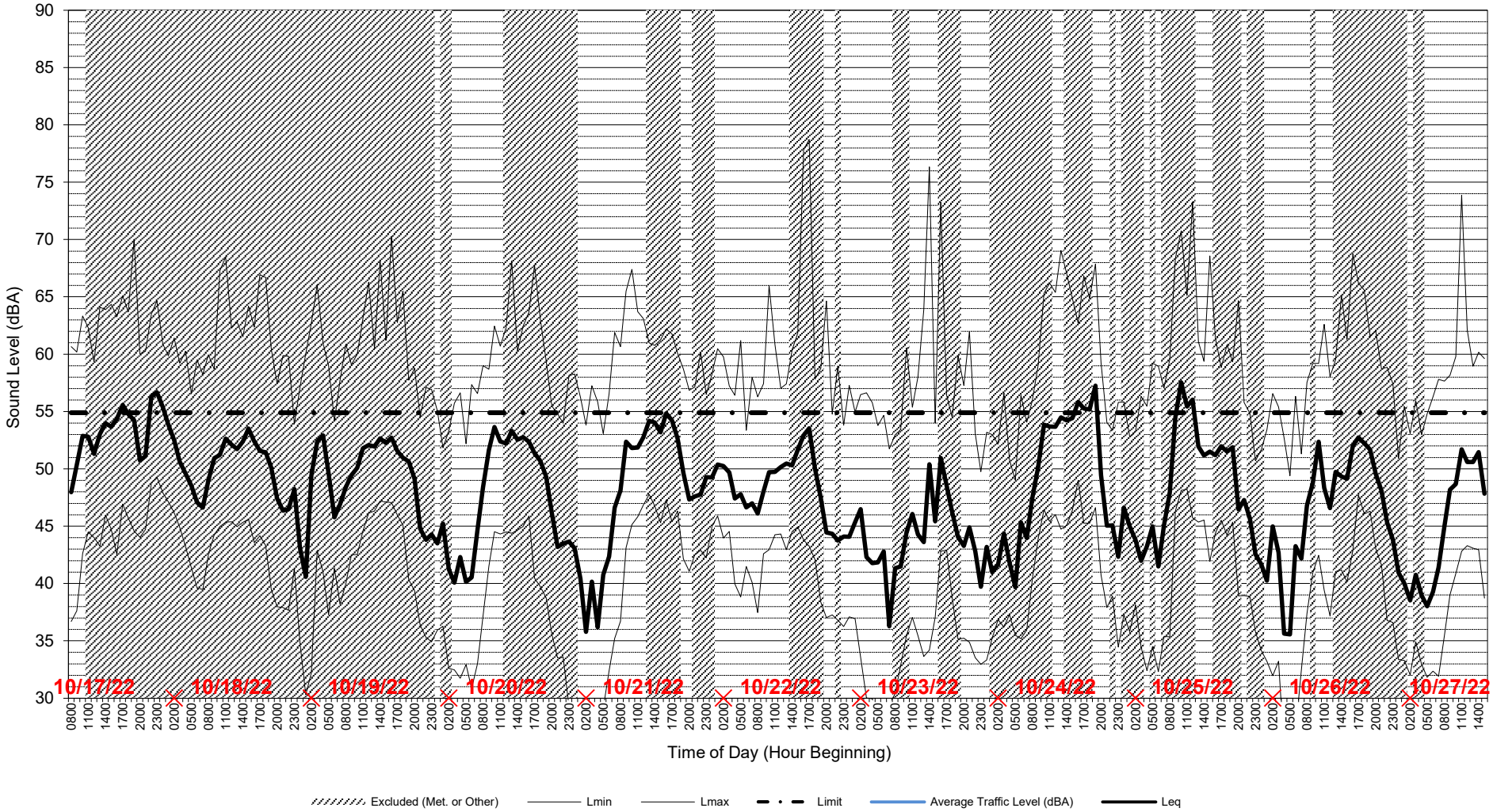
M4



Measured Ambient Sound Levels From Oct 1,2022 to Oct 11,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4a** Date: Feb 02, 2023	

Long-Term Measurement Results

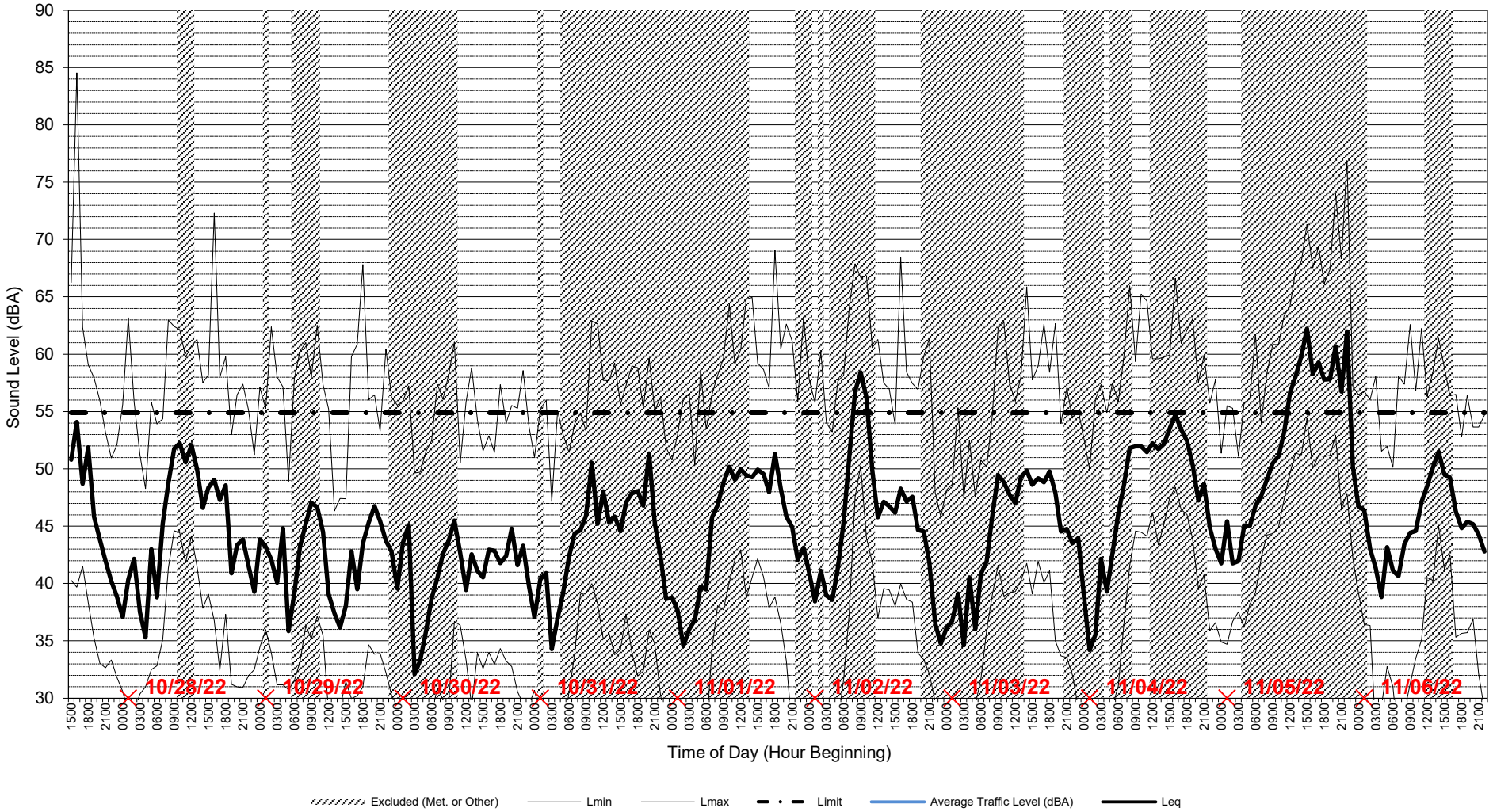
M4



Measured Ambient Sound Levels From Oct 11,2022 to Oct 21,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4b** Date: Feb 02, 2023	RWDI

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Oct 21,2022 to Oct 31,2022 Twin Creeks Environmental Centre Project # 2202861	Figure No. **M4c** Date: Feb 02, 2023	RWDI

ATTACHMENT B

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/1/2022 0:00	9.6	8	11	NE (43)	92	0	
10/1/2022 1:00	9	7	11	NE (51)	95	0	
10/1/2022 2:00	9.1	7	10	E (94)	84	0	
10/1/2022 3:00	9	8	10	NE (43)	74	0	
10/1/2022 4:00	7.8	7	12	NNE (20)	76	0	
10/1/2022 5:00	7.4	7	10	NE (34)	77	0	
10/1/2022 6:00	7.8	7	12	NE (52)	79	0	
10/1/2022 7:00	8.2	8	12	NNE (13)	84	0	
10/1/2022 8:00	9	6	13	NNE (28)	86	0	0
10/1/2022 9:00	10.9	8	12	N (10)	80	0	
10/1/2022 10:00	12.1	11	20	NE (56)	76	0	
10/1/2022 11:00	14	13	20	NE (54)	65	0	
10/1/2022 12:00	15.4	14	22	ENE (67)	63	0	
10/1/2022 13:00	16.5	15	22	N (9)	57	0	
10/1/2022 14:00	17.2	16	28	NNW (343)	63	0	
10/1/2022 15:00	17.5	16	27	NW (314)	63	0	
10/1/2022 16:00	17.2	16	28	NNW (346)	67	0	
10/1/2022 17:00	17.2	18	31	NW (308)	72	0	
10/1/2022 18:00	16.6	14	26	N (3)	81	0	
10/1/2022 19:00	15	8	14	NNE (23)	87	0	
10/1/2022 20:00	13.2	8	12	NNE (26)	88	0	
10/1/2022 21:00	12.3	9	14	N (4)	76	0	
10/1/2022 22:00	12.4	11	17	NNE (17)	78	0	
10/1/2022 23:00	12.1	12	17	NE (36)	87	0	
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10/2/2022 1:00	11	10	17	NNE (15)	100	0	
10/2/2022 2:00	11.3	14	28	NE (53)	100	0	
10/2/2022 3:00	10.6	14	22	NE (43)	95	0	
10/2/2022 4:00	9.6	14	21	NE (41)	91	0	
10/2/2022 5:00	8.8	13	21	ENE (61)	83	0	
10/2/2022 6:00	7.6	9	18	NNE (32)	84	0	
10/2/2022 7:00	6.9	13	20	NE (49)	84	0	
10/2/2022 8:00	7.6	16	26	ENE (59)	79	0	0
10/2/2022 9:00	9.4	19	31	NE (35)	72	0	
10/2/2022 10:00	11.2	18	26	ENE (61)	68	0	
10/2/2022 11:00	12.7	16	27	NE (54)	64	0	
10/2/2022 12:00	13.4	15	30	NNE (20)	61	0	
10/2/2022 13:00	14.6	17	31	NNE (17)	50	0	
10/2/2022 14:00	15.6	17	30	N (8)	41	0	
10/2/2022 15:00	16.2	17	29	N (3)	43	0	
10/2/2022 16:00	15.7	15	28	NNW (334)	49	0	
10/2/2022 17:00	14.8	15	28	N (5)	56	0	
10/2/2022 18:00	13.9	11	24	NNW (347)	64	0	
10/2/2022 19:00	11.9	6	12	N (354)	74	0	
10/2/2022 20:00	9.9	4	7	NNE (17)	81	0	
10/2/2022 21:00	8.7	5	8	NNE (19)	85	0	
10/2/2022 22:00	7.3	7	12	NE (55)	83	0	
10/2/2022 23:00	6.8	9	12	ENE (71)	80	0	
10/3/2022 0:00	6.1	11	14	ENE (70)	77	0	
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10/3/2022 8:00	5.2	3	5	ENE (66)	81	0	0
10/3/2022 9:00	8.6	2	5	ENE (74)	77	0	
10/3/2022 10:00	11.4	4	10	N (2)	68	0	
10/3/2022 11:00	12.9	9	17	ENE (78)	54	0	
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10/3/2022 14:00	15.9	7	15	ENE (66)	39	0	
10/3/2022 15:00	16.4	6	13	NE (42)	32	0	
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10/3/2022 17:00	15.2	9	16	N (0)	54	0	
10/3/2022 18:00	13.2	8	13	NNW (332)	62	0	
10/3/2022 19:00	11	5	8	NNE (12)	70	0	
10/3/2022 20:00	9.9	3	6	NE (35)	72	0	
10/3/2022 21:00	8.8	4	7	NNE (14)	79	0	
10/3/2022 22:00	8.6	4	8	NE (56)	78	0	
10/3/2022 23:00	8.4	5	9	ENE (66)	81	0	
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10/4/2022 1:00	7.5	4	9	ENE (70)	85	0	
10/4/2022 2:00	6.6	7	12	E (82)	90	0	
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10/4/2022 13:00	18.2	8	17	NE (38)	48	0	
10/4/2022 14:00	18.9	7	18	NE (38)	45	0	
10/4/2022 15:00	19.4	8	20	WNW (298)	41	0	
10/4/2022 16:00	19.3	10	19	N (10)	42	0	
10/4/2022 17:00	18.9	8	16	NW (319)	38	0	
10/4/2022 18:00	17.7	5	13	NNE (33)	46	0	
10/4/2022 19:00	14.8	3	6	N (6)	58	0	
10/4/2022 20:00	13.5	4	7	E (80)	65	0	
10/4/2022 21:00	12.7	3	4	ENE (58)	69	0	
10/4/2022 22:00	11.8	2	4	E (87)	74	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/4/2022 23:00	10.2	2	4	SSW (208)	81	0	
10/5/2022 0:00	9.5	2	6	W (262)	90	0	
10/5/2022 1:00	9	1	2	W (259)	90	0	
10/5/2022 2:00	9	0	2	N (1)	88	0	
10/5/2022 3:00	8.7	1	3	E (98)	85	0	
10/5/2022 4:00	8.6	1	2	NNE (13)	86	0	
10/5/2022 5:00	8.4	1	2	SW (218)	92	0	
10/5/2022 6:00	8.1	1	4	SE (141)	87	0	
10/5/2022 7:00	8.4	2	3	ESE (119)	86	0	
10/5/2022 8:00	11.1	1	3	SSE (154)	82	0	0
10/5/2022 9:00	14.4	3	6	S (182)	75	0	
10/5/2022 10:00	16.9	7	11	SW (235)	55	0	
10/5/2022 11:00	19.4	5	9	SSW (210)	50	0	
10/5/2022 12:00	21.2	5	16	SSE (167)	48	0	
10/5/2022 13:00	22.2	7	20	W (275)	43	0	
10/5/2022 14:00	22.6	10	19	SW (232)	44	0	
10/5/2022 15:00	22.6	13	21	NNW (344)	44	0	
10/5/2022 16:00	22.6	8	15	NW (308)	45	0	
10/5/2022 17:00	22.2	8	14	NNW (332)	49	0	
10/5/2022 18:00	20.9	3	7	NE (37)	55	0	
10/5/2022 19:00	18.8	2	4	ESE (105)	73	0	
10/5/2022 20:00	16.8	2	7	SSE (158)	77	0	
10/5/2022 21:00	16.2	1	5	NW (305)	80	0	
10/5/2022 22:00	14.1	0	2	SE (136)	92	0	
10/5/2022 23:00	14.4	4	10	SW (228)	86	0	
10/6/2022 0:00	14.2	5	7	SW (224)	78	0	
10/6/2022 1:00	14	5	10	SSW (211)	79	0	
10/6/2022 2:00	14.4	5	8	SSW (205)	76	0	
10/6/2022 3:00	14.3	6	11	SSW (208)	76	0	
10/6/2022 4:00	13.8	5	9	SSW (197)	80	0	
10/6/2022 5:00	13.5	7	11	SSW (213)	81	0	
10/6/2022 6:00	13	7	10	SSW (208)	83	0	
10/6/2022 7:00	12.2	6	9	SW (221)	88	0	
10/6/2022 8:00	12.7	5	10	SW (214)	86	0	0
10/6/2022 9:00	15.1	6	12	SW (230)	76	0	
10/6/2022 10:00	17.1	9	15	SW (214)	62	0	
10/6/2022 11:00	18.2	11	21	SSW (210)	59	0	
10/6/2022 12:00	19.7	11	20	SSW (199)	50	0	
10/6/2022 13:00	22	16	26	WSW (246)	44	0	
10/6/2022 14:00	23.3	18	30	SW (222)	29	0	
10/6/2022 15:00	22.7	18	31	SW (226)	28	0	
10/6/2022 16:00	22.6	18	30	WSW (239)	30	0	
10/6/2022 17:00	21.4	12	23	WNW (298)	41	0	
10/6/2022 18:00	19.1	7	14	WSW (253)	50	0	
10/6/2022 19:00	17.7	6	13	NW (308)	60	0	
10/6/2022 20:00	17.5	9	16	WNW (284)	63	0	
10/6/2022 21:00	15.2	24	48	NNW (334)	87	0	
10/6/2022 22:00	12.5	21	37	NNW (339)	100	0.6	
10/6/2022 23:00	12.1	14	26	WNW (303)	100	0	
10/7/2022 0:00	12.1	16	26	WNW (301)	100	0.2	
10/7/2022 1:00	11.7	21	33	WNW (301)	95	0	
10/7/2022 2:00	11.1	21	32	W (278)	95	0	
10/7/2022 3:00	10.8	18	29	NNW (329)	99	0.2	
10/7/2022 4:00	10.3	16	25	NNW (332)	83	0	
10/7/2022 5:00	9.5	16	27	NW (311)	84	0.4	
10/7/2022 6:00	8.8	17	30	NW (309)	78	0	
10/7/2022 7:00	8.4	16	28	N (0)	79	0	
10/7/2022 8:00	8.1	15	35	N (351)	82	0	1.4
10/7/2022 9:00	8.6	19	35	NW (317)	77	0	
10/7/2022 10:00	9	22	40	NW (313)	76	0	
10/7/2022 11:00	9	19	43	NNW (329)	78	0	
10/7/2022 12:00	9.3	20	37	N (4)	74	0	
10/7/2022 13:00	8.8	19	35	NNE (16)	78	0.2	
10/7/2022 14:00	8.5	19	34	NNW (335)	83	0.6	
10/7/2022 15:00	9.2	21	41	N (2)	82	0	
10/7/2022 16:00	8.9	21	33	NW (310)	79	0	
10/7/2022 17:00	7.7	17	32	WNW (302)	86	1.2	
10/7/2022 18:00	7.1	14	27	NW (309)	89	0.4	
10/7/2022 19:00	6.6	14	25	WNW (299)	87	0.6	
10/7/2022 20:00	6.5	13	26	WNW (303)	100	1.2	
10/7/2022 21:00	6.4	10	18	W (273)	96	0.2	
10/7/2022 22:00	6	6	16	WNW (301)	84	0	
10/7/2022 23:00	4.7	4	7	WSW (245)	89	0	
10/8/2022 0:00	3.8	6	9	W (263)	87	0	
10/8/2022 1:00	2.8	7	9	WNW (297)	89	0	
10/8/2022 2:00	2.3	8	11	WSW (249)	88	0	
10/8/2022 3:00	2.3	9	13	WSW (256)	87	0	
10/8/2022 4:00	3.7	10	20	WNW (284)	88	0	
10/8/2022 5:00	3.2	10	25	WSW (256)	84	0	
10/8/2022 6:00	2.2	8	12	W (269)	85	0	
10/8/2022 7:00	3.8	10	20	WNW (288)	84	0	
10/8/2022 8:00	4.3	10	20	W (280)	81	0	4.4
10/8/2022 9:00	5.1	14	23	W (278)	75	0	
10/8/2022 10:00	6.1	17	28	SSW (212)	69	0	
10/8/2022 11:00	7.5	18	32	WSW (238)	64	0	
10/8/2022 12:00	8.8	20	35	W (266)	57	0	
10/8/2022 13:00	9.8	21	37	WSW (241)	53	0	
10/8/2022 14:00	10.7	23	38	WSW (247)	49	0	
10/8/2022 15:00	11.2	23	34	WSW (241)	48	0	
10/8/2022 16:00	11.3	24	37	WSW (237)	47	0	
10/8/2022 17:00	11.1	22	37	SW (236)	47	0	
10/8/2022 18:00	10.3	20	32	SW (234)	52	0	
10/8/2022 19:00	8.5	14	22	SW (220)	59	0	
10/8/2022 20:00	7.4	13	19	SW (232)	64	0	
10/8/2022 21:00	6.5	12	18	W (260)	71	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/8/2022 22:00	5.9	10	17	WSW (237)	71	0	
10/8/2022 23:00	5.5	8	13	SSW (211)	70	0	
10/9/2022 0:00	5.2	9	16	SW (217)	71	0	
10/9/2022 1:00	5.3	12	20	SW (219)	74	0	
10/9/2022 2:00	5.5	12	22	SW (228)	75	0	
10/9/2022 3:00	5.9	10	19	SW (231)	75	0	
10/9/2022 4:00	5.8	11	16	SW (228)	75	0	
10/9/2022 5:00	5.9	11	21	SW (225)	75	0	
10/9/2022 6:00	5.7	10	16	SW (221)	76	0	
10/9/2022 7:00	5.9	10	15	SW (226)	76	0	
10/9/2022 8:00	6.3	8	16	SSW (211)	76	0	0
10/9/2022 9:00	7.6	12	20	SW (231)	73	0	
10/9/2022 10:00	10.2	17	26	SW (236)	66	0	
10/9/2022 11:00	12.4	16	23	SW (218)	57	0	
10/9/2022 12:00	13.8	15	26	SW (224)	53	0	
10/9/2022 13:00	15.6	18	33	WSW (243)	46	0	
10/9/2022 14:00	16.7	17	32	SW (232)	40	0	
10/9/2022 15:00	16.8	18	30	W (263)	39	0	
10/9/2022 16:00	16.3	11	21	W (272)	45	0	
10/9/2022 17:00	15.8	6	14	N (1)	52	0	
10/9/2022 18:00	13.6	9	14	N (1)	61	0	
10/9/2022 19:00	12.6	6	13	NNE (26)	66	0	
10/9/2022 20:00	12.2	4	6	E (86)	69	0	
10/9/2022 21:00	11.8	2	5	NNW (334)	77	0	
10/9/2022 22:00	11.1	2	7	S (186)	77	0	
10/9/2022 23:00	9.9	4	10	NW (318)	85	0	
10/10/2022 0:00	8.2	2	6	ESE (112)	95	0	
10/10/2022 1:00	7.8	1	2	NE (56)	100	0	
10/10/2022 2:00	7.3	2	13	N (9)	100	0	
10/10/2022 3:00	6.1	6	14	E (84)	100	0	
10/10/2022 4:00	6.5	6	9	NE (40)	100	0	
10/10/2022 5:00	5.7	5	9	ENE (65)	100	0	
10/10/2022 6:00	5.4	4	8	ENE (71)	100	0	
10/10/2022 7:00	5.7	4	7	ESE (102)	100	0	
10/10/2022 8:00	7.5	1	4	E (81)	94	0	0
10/10/2022 9:00	9.9	4	8	ENE (72)	79	0	
10/10/2022 10:00	11.9	5	12	NNW (340)	67	0	
10/10/2022 11:00	12.6	11	20	NNW (336)	65	0	
10/10/2022 12:00	13.1	13	23	WNW (292)	56	0	
10/10/2022 13:00	13.4	13	24	WNW (298)	47	0	
10/10/2022 14:00	13.7	11	22	NW (314)	44	0	
10/10/2022 15:00	14.5	10	21	NW (314)	48	0	
10/10/2022 16:00	15	9	19	NW (317)	47	0	
10/10/2022 17:00	15.1	6	12	N (0)	49	0	
10/10/2022 18:00	13.7	5	7	NNE (30)	56	0	
10/10/2022 19:00	11	7	10	ESE (102)	68	0	
10/10/2022 20:00	9.5	7	14	ESE (107)	75	0	
10/10/2022 21:00	8.5	6	8	E (83)	76	0	
10/10/2022 22:00	8.6	6	10	ESE (120)	83	0	
10/10/2022 23:00	8.3	8	12	SE (127)	94	0	
10/11/2022 0:00	8.5	10	14	ESE (113)	100	0	
10/11/2022 1:00	8.6	14	18	SE (125)	100	0	
10/11/2022 2:00	9	14	17	SE (130)	98	0	
10/11/2022 3:00	9.9	15	20	SSE (153)	97	0	
10/11/2022 4:00	10.1	14	18	S (172)	96	0	
10/11/2022 5:00	10.1	12	19	SSE (156)	96	0	
10/11/2022 6:00	11	12	21	SSW (202)	88	0	
10/11/2022 7:00	11	15	26	SSW (196)	76	0	
10/11/2022 8:00	11.2	14	24	SSW (196)	76	0	0
10/11/2022 9:00	12.8	15	22	SW (221)	74	0	
10/11/2022 10:00	15.5	17	29	SW (221)	68	0	
10/11/2022 11:00	17.9	19	29	WSW (239)	57	0	
10/11/2022 12:00	19.8	18	28	SSW (201)	47	0	
10/11/2022 13:00	20.8	18	30	SW (224)	44	0	
10/11/2022 14:00	21.8	18	30	SW (215)	41	0	
10/11/2022 15:00	22.5	22	34	S (188)	37	0	
10/11/2022 16:00	22.2	22	35	SW (235)	37	0	
10/11/2022 17:00	21.8	17	34	S (176)	39	0	
10/11/2022 18:00	19.8	14	24	S (169)	43	0	
10/11/2022 19:00	18.2	16	22	SSE (160)	48	0	
10/11/2022 20:00	16.8	14	22	S (172)	56	0	
10/11/2022 21:00	16	14	20	SSE (160)	58	0	
10/11/2022 22:00	16.1	15	21	SSE (165)	58	0	
10/11/2022 23:00	16.2	13	21	S (170)	61	0	
10/12/2022 0:00	15.5	10	16	SSE (160)	67	0	
10/12/2022 1:00	15	10	15	SSE (150)	69	0.2	
10/12/2022 2:00	15.3	15	26	SSE (166)	67	0	
10/12/2022 3:00	15.3	14	21	SSE (168)	66	0	
10/12/2022 4:00	15.5	13	19	S (169)	63	0	
10/12/2022 5:00	15.7	14	22	SSE (158)	60	0	
10/12/2022 6:00	15.7	16	23	SE (141)	59	0	
10/12/2022 7:00	15.3	17	23	SSE (153)	65	0	
10/12/2022 8:00	15.4	17	28	SSE (160)	65	0	0.2
10/12/2022 9:00	16.2	14	25	S (181)	63	0	
10/12/2022 10:00	16.3	15	27	S (173)	66	0	
10/12/2022 11:00	17.4	17	29	SSW (199)	63	0	
10/12/2022 12:00	18.4	18	32	SSW (208)	59	0	
10/12/2022 13:00	18.1	24	38	SSE (168)	62	0	
10/12/2022 14:00	19	25	39	S (185)	62	0	
10/12/2022 15:00	19.4	24	41	SE (138)	64	0	
10/12/2022 16:00	19.2	25	41	SSW (195)	64	0	
10/12/2022 17:00	18.9	26	38	SSE (163)	66	0	
10/12/2022 18:00	18.6	25	34	SSE (159)	70	0	
10/12/2022 19:00	18.5	28	39	SSE (162)	71	0	
10/12/2022 20:00	18.6	27	41	S (174)	79	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/12/2022 21:00	17	18	32	SSW (199)	100	2.6	
10/12/2022 22:00	16	17	30	SW (214)	100	0.6	
10/12/2022 23:00	15.3	11	24	S (179)	100	0	
10/13/2022 0:00	15.2	11	19	SSW (205)	100	0	
10/13/2022 1:00	12.9	17	28	WNW (301)	100	0	
10/13/2022 2:00	11.8	14	23	WNW (290)	100	0	
10/13/2022 3:00	11.1	11	18	WNW (292)	100	0	
10/13/2022 4:00	10.2	10	16	W (267)	100	0.2	
10/13/2022 5:00	9.6	12	20	W (281)	100	0	
10/13/2022 6:00	8.1	7	12	SW (232)	100	0	
10/13/2022 7:00	7.5	6	11	S (171)	100	0	
10/13/2022 8:00	7.7	8	20	SSW (204)	100	0	3.4
10/13/2022 9:00	8.5	11	17	SW (214)	100	0	
10/13/2022 10:00	9.1	12	21	SSW (212)	100	0	
10/13/2022 11:00	9.6	16	27	SW (226)	100	0	
10/13/2022 12:00	9.4	14	27	SSW (199)	96	0.2	
10/13/2022 13:00	11.6	18	39	SW (218)	97	0	
10/13/2022 14:00	12.2	24	39	SSW (193)	63	0	
10/13/2022 15:00	11.6	18	34	WSW (246)	59	0	
10/13/2022 16:00	12.8	25	42	WSW (240)	47	0	
10/13/2022 17:00	12.4	21	36	WSW (238)	46	0	
10/13/2022 18:00	10.7	11	25	WSW (248)	52	0	
10/13/2022 19:00	8.5	6	10	W (269)	62	0	
10/13/2022 20:00	7.4	4	7	SSE (164)	64	0	
10/13/2022 21:00	7.1	10	13	SSE (159)	65	0	
10/13/2022 22:00	7.4	11	18	SSW (211)	65	0	
10/13/2022 23:00	8	10	16	SSW (209)	59	0	
10/14/2022 0:00	7.2	12	19	SSW (210)	63	0	
10/14/2022 1:00	6.2	9	16	SW (219)	65	0	
10/14/2022 2:00	5.2	9	12	S (172)	72	0	
10/14/2022 3:00	4.5	10	15	SSE (151)	74	0	
10/14/2022 4:00	4.6	9	15	S (189)	68	0	
10/14/2022 5:00	3.4	7	11	SSW (207)	72	0	
10/14/2022 6:00	3.7	7	11	S (186)	68	0	
10/14/2022 7:00	3.9	9	18	SSW (210)	69	0	
10/14/2022 8:00	5.1	13	21	S (185)	65	0	0.2
10/14/2022 9:00	5.8	12	22	SSW (211)	64	0	
10/14/2022 10:00	7.4	15	30	S (181)	60	0	
10/14/2022 11:00	9	16	28	SW (218)	51	0	
10/14/2022 12:00	10.6	16	30	SSW (200)	41	0	
10/14/2022 13:00	12.1	19	35	SW (222)	33	0	
10/14/2022 14:00	13	24	45	S (182)	29	0	
10/14/2022 15:00	13.4	24	45	SW (220)	30	0	
10/14/2022 16:00	13.3	24	41	SW (231)	36	0	
10/14/2022 17:00	13.3	22	33	S (172)	41	0	
10/14/2022 18:00	12.6	17	25	SSE (158)	37	0	
10/14/2022 19:00	11.2	13	21	S (178)	42	0	
10/14/2022 20:00	11	12	23	SSW (206)	41	0	
10/14/2022 21:00	9.8	12	25	SSE (160)	45	0	
10/14/2022 22:00	8.2	14	18	ESE (120)	48	0	
10/14/2022 23:00	8.2	18	25	SE (125)	48	0	
10/15/2022 0:00	9.7	21	28	SE (124)	47	0	
10/15/2022 1:00	11.4	25	39	SSE (147)	46	0	
10/15/2022 2:00	13.3	32	47	SSE (157)	42	0	
10/15/2022 3:00	13.3	23	41	S (172)	42	0	
10/15/2022 4:00	12.6	20	39	SSE (162)	55	0	
10/15/2022 5:00	10.4	23	38	SSW (192)	66	0	
10/15/2022 6:00	10.2	23	40	WSW (253)	71	0	
10/15/2022 7:00	8.8	24	33	W (262)	73	0	
10/15/2022 8:00	6.8	23	42	WSW (244)	83	0.2	0.2
10/15/2022 9:00	6.3	22	42	W (260)	82	0	
10/15/2022 10:00	7.2	26	43	WSW (253)	69	0	
10/15/2022 11:00	8	28	46	W (272)	60	0	
10/15/2022 12:00	8.4	28	45	W (262)	53	0	
10/15/2022 13:00	8.8	26	42	WSW (246)	46	0	
10/15/2022 14:00	9.2	26	44	WSW (252)	46	0	
10/15/2022 15:00	9.5	26	44	WSW (258)	45	0	
10/15/2022 16:00	9.7	23	35	WSW (246)	46	0	
10/15/2022 17:00	10	22	35	SW (222)	45	0	
10/15/2022 18:00	9.2	18	33	SSW (203)	49	0	
10/15/2022 19:00	8	11	19	SSW (206)	54	0	
10/15/2022 20:00	7.3	9	18	S (180)	58	0	
10/15/2022 21:00	6.7	11	17	SSW (197)	63	0	
10/15/2022 22:00	5.8	11	17	SSW (204)	66	0	
10/15/2022 23:00	5.5	10	14	SSW (210)	68	0	
10/16/2022 0:00	5	7	12	SW (215)	72	0	
10/16/2022 1:00	4.6	7	11	S (172)	75	0	
10/16/2022 2:00	5.2	9	14	S (172)	74	0	
10/16/2022 3:00	5.8	10	14	S (183)	73	0	
10/16/2022 4:00	6.4	8	15	SSW (212)	70	0	
10/16/2022 5:00	6.2	11	17	SW (215)	72	0	
10/16/2022 6:00	6.3	11	19	SSW (207)	71	0	
10/16/2022 7:00	6.6	11	18	SSW (193)	70	0	
10/16/2022 8:00	6.8	12	20	SW (218)	70	0	0
10/16/2022 9:00	7.9	13	20	SW (228)	70	0	
10/16/2022 10:00	9.5	15	23	SW (236)	68	0	
10/16/2022 11:00	10.6	12	19	W (272)	63	0	
10/16/2022 12:00	11.8	11	20	SW (216)	58	0	
10/16/2022 13:00	12.7	10	18	NNW (333)	52	0	
10/16/2022 14:00	12.7	10	19	N (0)	51	0	
10/16/2022 15:00	12.6	8	14	N (0)	49	0	
10/16/2022 16:00	12.8	5	12	NW (313)	50	0	
10/16/2022 17:00	12.5	6	13	NNW (341)	49	0	
10/16/2022 18:00	11.6	4	8	NE (38)	55	0	
10/16/2022 19:00	10.8	2	7	ESE (104)	61	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/16/2022 20:00	9.2	1	5	E (93)	72	0	
10/16/2022 21:00	8.6	2	7	WNW (300)	74	0	
10/16/2022 22:00	8.6	3	9	SSW (206)	69	0	
10/16/2022 23:00	8.5	7	12	WSW (238)	71	0	
10/17/2022 0:00	8.3	11	18	WSW (252)	73	0	
10/17/2022 1:00	7.9	12	20	W (265)	76	0	
10/17/2022 2:00	7.2	12	19	WSW (240)	79	0	
10/17/2022 3:00	6	7	13	SSW (196)	83	0	
10/17/2022 4:00	5.7	10	15	SW (222)	83	0	
10/17/2022 5:00	5.9	13	19	WSW (252)	82	0	
10/17/2022 6:00	6	17	27	SW (228)	88	0	
10/17/2022 7:00	5.6	15	21	WSW (242)	87	0	
10/17/2022 8:00	5.8	14	27	SW (222)	85	0	0
10/17/2022 9:00	5.9	19	27	WSW (252)	81	0	
10/17/2022 10:00	6.3	21	32	WSW (257)	79	0	
10/17/2022 11:00	6.7	22	32	SW (227)	71	0	
10/17/2022 12:00	7.3	24	35	WSW (239)	65	0	
10/17/2022 13:00	6.6	25	42	WSW (256)	76	0	
10/17/2022 14:00	6.9	24	37	SW (229)	74	0	
10/17/2022 15:00	7.8	27	46	SW (230)	64	0	
10/17/2022 16:00	6.9	27	42	WSW (238)	74	0	
10/17/2022 17:00	5.6	23	38	WSW (239)	89	0.8	
10/17/2022 18:00	3.1	21	36	SW (222)	100	1.6	
10/17/2022 19:00	2.6	21	38	W (261)	100	3	
10/17/2022 20:00	5.1	35	61	W (281)	100	2.6	
10/17/2022 21:00	5.2	39	60	NW (308)	100	1.8	
10/17/2022 22:00	5.1	33	50	NW (305)	100	3	
10/17/2022 23:00	5.2	32	49	WNW (301)	100	2.4	
10/18/2022 0:00	5.2	34	55	WNW (298)	100	0.6	
10/18/2022 1:00	5.2	32	50	WNW (298)	96	0	
10/18/2022 2:00	5.1	30	46	NW (307)	90	0	
10/18/2022 3:00	4.9	28	43	WNW (292)	82	0	
10/18/2022 4:00	4.6	25	37	W (274)	82	0	
10/18/2022 5:00	4.4	23	34	WNW (287)	80	0	
10/18/2022 6:00	4.1	24	37	WNW (288)	80	0	
10/18/2022 7:00	3.8	20	38	WNW (292)	83	0	
10/18/2022 8:00	3.4	21	32	W (268)	86	0	15.8
10/18/2022 9:00	3.3	25	36	W (267)	87	0.4	
10/18/2022 10:00	2.7	25	38	WSW (239)	97	0.8	
10/18/2022 11:00	1.9	24	40	WSW (244)	100	1	
10/18/2022 12:00	2.7	26	35	SW (235)	100	0.2	
10/18/2022 13:00	3.7	25	37	WSW (254)	100	0.4	
10/18/2022 14:00	4.2	27	40	WSW (255)	100	0.2	
10/18/2022 15:00	4.7	25	39	SW (234)	95	0	
10/18/2022 16:00	4.8	25	38	WSW (258)	92	0	
10/18/2022 17:00	4.4	24	38	W (272)	84	0	
10/18/2022 18:00	4.1	21	31	WSW (257)	86	0	
10/18/2022 19:00	3.8	20	31	SW (236)	91	0.2	
10/18/2022 20:00	3.3	21	29	WNW (287)	100	0.4	
10/18/2022 21:00	3.1	20	32	SW (232)	100	1.2	
10/18/2022 22:00	4.5	14	28	NW (322)	100	0.2	
10/18/2022 23:00	5	11	31	NW (304)	100	0	
10/19/2022 0:00	4.9	10	29	N (353)	100	2.2	
10/19/2022 1:00	4.5	9	24	SW (230)	100	2.6	
10/19/2022 2:00	3.7	7	12	WNW (289)	100	4	
10/19/2022 3:00	3.1	4	11	E (87)	100	3.2	
10/19/2022 4:00	3.4	6	19	WNW (284)	100	1.2	
10/19/2022 5:00	4.6	20	36	W (270)	100	0.4	
10/19/2022 6:00	4.4	21	32	WNW (299)	100	0	
10/19/2022 7:00	4.1	18	34	WNW (289)	100	0.2	
10/19/2022 8:00	4.2	20	30	WNW (298)	100	0.2	19
10/19/2022 9:00	4.3	23	40	WNW (289)	100	0.4	
10/19/2022 10:00	4.3	25	41	W (276)	100	0	
10/19/2022 11:00	4.4	25	37	WNW (292)	100	0.2	
10/19/2022 12:00	4.8	27	41	WNW (298)	92	0	
10/19/2022 13:00	4.4	26	39	WNW (300)	91	0.2	
10/19/2022 14:00	4.3	24	42	WNW (297)	96	0.2	
10/19/2022 15:00	3.5	20	41	W (274)	100	1.6	
10/19/2022 16:00	3.6	17	33	WSW (248)	100	1.4	
10/19/2022 17:00	4.1	20	33	W (269)	100	0.4	
10/19/2022 18:00	3.9	23	41	W (277)	96	0.2	
10/19/2022 19:00	3.5	14	22	WSW (240)	97	0	
10/19/2022 20:00	3.5	12	16	WSW (240)	99	0	
10/19/2022 21:00	3.7	13	24	W (265)	96	0	
10/19/2022 22:00	4	18	31	W (273)	83	0	
10/19/2022 23:00	3.5	21	37	WSW (257)	84	0	
10/20/2022 0:00	2.9	19	28	WSW (244)	79	0	
10/20/2022 1:00	2.8	17	25	SW (218)	79	0	
10/20/2022 2:00	2.3	16	23	SW (229)	79	0	
10/20/2022 3:00	2	18	26	SW (222)	74	0	
10/20/2022 4:00	1.8	12	20	SW (229)	76	0	
10/20/2022 5:00	2.1	12	18	SSW (211)	79	0	
10/20/2022 6:00	2.3	11	17	SW (224)	83	0	
10/20/2022 7:00	2.7	12	21	SSW (199)	83	0	
10/20/2022 8:00	2.9	13	20	SW (222)	82	0	4.6
10/20/2022 9:00	3.3	13	22	SSW (203)	81	0	
10/20/2022 10:00	3.5	20	33	SSW (207)	84	0.2	
10/20/2022 11:00	3.7	19	31	SW (234)	84	0.2	
10/20/2022 12:00	3.8	23	35	WSW (255)	85	0.2	
10/20/2022 13:00	3	22	33	SW (233)	100	0.6	
10/20/2022 14:00	2.7	23	37	SW (219)	100	0.8	
10/20/2022 15:00	2.8	22	34	WSW (243)	100	0.4	
10/20/2022 16:00	2.7	18	27	SW (217)	100	0	
10/20/2022 17:00	3	16	27	SW (222)	100	0	
10/20/2022 18:00	2.6	15	27	SE (142)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/20/2022 19:00	2.3	10	17	S (180)	100	0	
10/20/2022 20:00	2.3	10	17	S (169)	100	0	
10/20/2022 21:00	1.6	12	16	SSE (152)	100	0	
10/20/2022 22:00	1.8	11	17	SSE (148)	99	0	
10/20/2022 23:00	2.3	12	18	SSE (152)	90	0	
10/21/2022 0:00	2.2	9	17	SSE (163)	80	0	
10/21/2022 1:00	2.5	14	18	SSE (156)	76	0	
10/21/2022 2:00	2.6	13	17	SSE (164)	77	0	
10/21/2022 3:00	2.9	14	19	S (170)	75	0	
10/21/2022 4:00	3.5	13	18	S (181)	73	0	
10/21/2022 5:00	3.7	13	19	SSE (164)	71	0	
10/21/2022 6:00	3.5	15	19	S (184)	72	0	
10/21/2022 7:00	4.3	13	20	SSE (163)	71	0	
10/21/2022 8:00	4.8	15	20	SSE (167)	71	0	2.4
10/21/2022 9:00	7.2	18	31	S (173)	68	0	
10/21/2022 10:00	9.8	18	32	S (172)	58	0	
10/21/2022 11:00	11.9	22	39	S (184)	55	0	
10/21/2022 12:00	13.1	22	37	S (183)	54	0	
10/21/2022 13:00	14.1	23	43	S (186)	51	0	
10/21/2022 14:00	15.1	22	41	SE (146)	49	0	
10/21/2022 15:00	15.9	23	39	S (184)	45	0	
10/21/2022 16:00	16.4	19	36	SSE (164)	41	0	
10/21/2022 17:00	16.4	16	32	SSE (168)	42	0	
10/21/2022 18:00	15	17	27	S (170)	52	0	
10/21/2022 19:00	13.8	19	27	SSE (164)	56	0	
10/21/2022 20:00	13.8	19	28	SSE (152)	56	0	
10/21/2022 21:00	13.7	20	28	S (185)	56	0	
10/21/2022 22:00	13.9	21	32	S (182)	54	0	
10/21/2022 23:00	14.2	18	31	S (172)	52	0	
10/22/2022 0:00	14.1	17	31	S (189)	50	0	
10/22/2022 1:00	13.6	17	31	S (191)	51	0	
10/22/2022 2:00	12.6	16	26	S (183)	56	0	
10/22/2022 3:00	11.9	17	26	S (179)	58	0	
10/22/2022 4:00	11.9	17	28	SSE (168)	58	0	
10/22/2022 5:00	11.8	15	24	S (178)	58	0	
10/22/2022 6:00	11.3	18	28	S (172)	61	0	
10/22/2022 7:00	11.4	18	29	SSW (203)	61	0	
10/22/2022 8:00	11.9	16	27	S (182)	60	0	0
10/22/2022 9:00	13.2	16	32	S (188)	57	0	
10/22/2022 10:00	15	18	29	SW (224)	53	0	
10/22/2022 11:00	17	18	31	SSW (194)	51	0	
10/22/2022 12:00	18.5	21	31	S (178)	51	0	
10/22/2022 13:00	19.4	21	34	SSE (151)	50	0	
10/22/2022 14:00	20.1	20	32	SSE (167)	49	0	
10/22/2022 15:00	21	23	33	SSE (162)	48	0	
10/22/2022 16:00	20.8	24	34	S (174)	50	0	
10/22/2022 17:00	19.7	21	32	SE (145)	52	0	
10/22/2022 18:00	17.5	18	26	SE (136)	62	0	
10/22/2022 19:00	15.7	17	23	SE (145)	67	0	
10/22/2022 20:00	15.2	19	26	SE (141)	69	0	
10/22/2022 21:00	15.4	18	23	SSE (147)	67	0	
10/22/2022 22:00	15.6	18	24	SSE (152)	67	0	
10/22/2022 23:00	15.6	17	24	SE (138)	67	0	
10/23/2022 0:00	15.1	16	21	SSE (162)	68	0	
10/23/2022 1:00	14.7	15	19	SE (139)	70	0	
10/23/2022 2:00	13.8	15	22	SE (142)	73	0	
10/23/2022 3:00	13.2	13	19	SE (129)	76	0	
10/23/2022 4:00	12.5	13	17	ESE (122)	78	0	
10/23/2022 5:00	12.3	17	21	SE (141)	79	0	
10/23/2022 6:00	12	20	25	SE (136)	82	0	
10/23/2022 7:00	11.8	20	24	SE (132)	84	0	
10/23/2022 8:00	12	20	24	SE (131)	84	0	0
10/23/2022 9:00	13.7	16	24	SSE (151)	80	0	
10/23/2022 10:00	16.8	12	20	SSE (164)	69	0	
10/23/2022 11:00	19.7	10	16	SW (214)	58	0	
10/23/2022 12:00	21.8	12	19	SE (141)	51	0	
10/23/2022 13:00	22.6	18	27	SE (130)	50	0	
10/23/2022 14:00	23	23	31	SE (128)	47	0	
10/23/2022 15:00	22.6	25	32	SE (131)	46	0	
10/23/2022 16:00	21.7	22	35	SE (133)	46	0	
10/23/2022 17:00	20.2	19	26	SE (131)	49	0	
10/23/2022 18:00	17.5	14	19	ESE (115)	56	0	
10/23/2022 19:00	16.4	14	17	ESE (119)	56	0	
10/23/2022 20:00	16.2	15	18	SE (127)	54	0	
10/23/2022 21:00	15.3	15	19	SE (126)	57	0	
10/23/2022 22:00	14.3	16	24	ESE (117)	61	0	
10/23/2022 23:00	13.2	19	25	ESE (118)	67	0	
10/24/2022 0:00	12.4	20	24	ESE (120)	67	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/24/2022 1:00	11.8	20	24	SE (125)	69	0	
10/24/2022 2:00	11.4	20	24	ESE (120)	70	0	
10/24/2022 3:00	11.4	20	25	ESE (123)	71	0	
10/24/2022 4:00	11.2	20	27	ESE (117)	71	0	
10/24/2022 5:00	11	20	25	ESE (123)	73	0	
10/24/2022 6:00	10.8	21	26	ESE (123)	76	0	
10/24/2022 7:00	10.5	20	25	SE (127)	79	0	
10/24/2022 8:00	10.8	21	27	SE (130)	80	0	0
10/24/2022 9:00	12	21	27	SE (126)	79	0	
10/24/2022 10:00	15	17	24	SSE (150)	74	0	
10/24/2022 11:00	18.3	17	25	SSE (166)	62	0	
10/24/2022 12:00	20.6	21	28	SE (145)	53	0	
10/24/2022 13:00	22.2	23	36	SSE (165)	46	0	
10/24/2022 14:00	22.6	27	39	S (170)	40	0	
10/24/2022 15:00	22.4	25	36	SSE (160)	42	0	
10/24/2022 16:00	21.3	22	31	SSE (151)	44	0	
10/24/2022 17:00	19.1	18	23	SE (136)	57	0	
10/24/2022 18:00	16.6	18	24	ESE (121)	61	0	
10/24/2022 19:00	15.2	16	20	ESE (121)	60	0	
10/24/2022 20:00	14.7	19	25	ESE (120)	57	0	
10/24/2022 21:00	14	17	22	SE (131)	61	0	
10/24/2022 22:00	13.8	22	33	ESE (123)	62	0	
10/24/2022 23:00	13.5	20	29	SE (134)	66	0	
10/25/2022 0:00	13.2	21	29	ESE (105)	68	0	
10/25/2022 1:00	12.8	20	27	ESE (123)	74	0	
10/25/2022 2:00	12.5	18	24	ESE (117)	75	0	
10/25/2022 3:00	12.3	21	27	SE (141)	77	0	
10/25/2022 4:00	11.8	18	21	SE (126)	80	0	
10/25/2022 5:00	11.8	21	26	SE (139)	80	0	
10/25/2022 6:00	11.7	19	25	SE (136)	80	0	
10/25/2022 7:00	12.2	20	26	ESE (118)	77	0	
10/25/2022 8:00	12.3	19	24	ESE (116)	75	0	0
10/25/2022 9:00	12.6	19	25	SE (132)	74	0	
10/25/2022 10:00	14.6	20	26	SSE (148)	71	0	
10/25/2022 11:00	16.4	17	25	SSE (164)	61	0	
10/25/2022 12:00	19.2	18	25	SSE (159)	53	0	
10/25/2022 13:00	20.9	17	24	SSE (152)	47	0	
10/25/2022 14:00	21.6	19	28	S (175)	46	0	
10/25/2022 15:00	22	20	32	SSE (147)	46	0	
10/25/2022 16:00	21.4	24	33	SE (134)	52	0	
10/25/2022 17:00	19	20	28	SE (125)	58	0	
10/25/2022 18:00	17.5	19	27	SE (124)	60	0	
10/25/2022 19:00	16.7	18	23	SE (124)	63	0	
10/25/2022 20:00	16.6	19	25	ESE (122)	63	0	
10/25/2022 21:00	16.1	20	27	SE (141)	65	0	
10/25/2022 22:00	16.1	19	24	SE (138)	64	0	
10/25/2022 23:00	16	16	20	SE (132)	64	0	
10/26/2022 0:00	15.9	17	24	SE (131)	66	0	
10/26/2022 1:00	15.8	18	23	ESE (120)	67	0	
10/26/2022 2:00	15.6	10	20	SSE (168)	67	0	
10/26/2022 3:00	15.5	8	12	SSE (157)	67	0	
10/26/2022 4:00	15.3	14	19	SE (135)	71	0	
10/26/2022 5:00	14.6	16	21	SE (143)	75	0	
10/26/2022 6:00	14.1	17	24	SSE (158)	80	0	
10/26/2022 7:00	13.7	15	22	SSE (165)	83	0.2	
10/26/2022 8:00	13.4	12	19	SSE (156)	85	0	0.2
10/26/2022 9:00	13.6	13	21	SE (144)	89	0	
10/26/2022 10:00	14.2	17	25	S (173)	93	0	
10/26/2022 11:00	14.4	15	25	S (184)	100	0.8	
10/26/2022 12:00	13.8	14	27	SSW (202)	100	0.4	
10/26/2022 13:00	14.6	18	31	SW (226)	100	0	
10/26/2022 14:00	11.7	26	45	NW (320)	100	1.4	
10/26/2022 15:00	9.1	30	48	NW (316)	100	0.2	
10/26/2022 16:00	8.2	32	46	NW (310)	100	0	
10/26/2022 17:00	7.8	30	47	NW (318)	100	0.4	
10/26/2022 18:00	7.6	30	44	WNW (285)	100	0.2	
10/26/2022 19:00	7.7	29	41	WNW (296)	99	0	
10/26/2022 20:00	7.7	26	39	WNW (296)	92	0	
10/26/2022 21:00	7.6	23	33	WNW (303)	79	0	
10/26/2022 22:00	7.4	21	34	NW (322)	78	0	
10/26/2022 23:00	7	19	31	NW (322)	74	0	
10/27/2022 0:00	6.7	18	33	NNW (334)	72	0	
10/27/2022 1:00	6.5	21	36	NNW (332)	71	0	
10/27/2022 2:00	6.2	19	31	WNW (302)	71	0	
10/27/2022 3:00	6	13	23	N (352)	73	0	
10/27/2022 4:00	5.7	12	24	NNW (344)	72	0	
10/27/2022 5:00	5.6	11	21	N (4)	70	0	
10/27/2022 6:00	5.6	7	14	NNW (329)	70	0	
10/27/2022 7:00	5.7	8	13	NW (321)	72	0	
10/27/2022 8:00	5.6	5	9	W (266)	77	0	3.4
10/27/2022 9:00	6	6	11	WNW (289)	78	0	
10/27/2022 10:00	7.1	8	15	NW (316)	67	0	
10/27/2022 11:00	8	7	15	N (1)	62	0	
10/27/2022 12:00	8.6	7	16	ENE (66)	60	0	
10/27/2022 13:00	9.3	5	15	NNW (333)	59	0	
10/27/2022 14:00	9.9	7	16	NE (52)	60	0	
10/27/2022 15:00	9.8	8	18	SE (137)	60	0	
10/27/2022 16:00	9.4	8	15	WNW (294)	65	0	
10/27/2022 17:00	9.1	9	15	N (351)	68	0	
10/27/2022 18:00	7.2	7	16	NNW (332)	77	0	
10/27/2022 19:00	5.6	6	9	N (3)	83	0	
10/27/2022 20:00	4.8	5	8	N (7)	86	0	
10/27/2022 21:00	4.5	5	10	NE (43)	86	0	
10/27/2022 22:00	4.4	7	10	ENE (75)	84	0	
10/27/2022 23:00	4.1	8	13	ENE (76)	81	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/28/2022 0:00	3.2	8	11	E (80)	86	0	
10/28/2022 1:00	3	8	12	E (94)	85	0	
10/28/2022 2:00	3.4	11	16	E (93)	82	0	
10/28/2022 3:00	3.7	12	16	ESE (109)	79	0	
10/28/2022 4:00	3.5	12	16	E (87)	79	0	
10/28/2022 5:00	3.2	12	16	E (101)	81	0	
10/28/2022 6:00	2.9	13	16	E (79)	82	0	
10/28/2022 7:00	2.8	13	18	E (83)	82	0	
10/28/2022 8:00	3.5	18	25	E (92)	81	0	0
10/28/2022 9:00	5	22	30	ESE (105)	79	0	
10/28/2022 10:00	6.9	21	31	ESE (121)	78	0	
10/28/2022 11:00	8.3	19	32	ESE (116)	71	0	
10/28/2022 12:00	9	18	25	ESE (119)	67	0	
10/28/2022 13:00	10.1	15	21	SE (130)	64	0	
10/28/2022 14:00	11.6	12	20	ESE (118)	60	0	
10/28/2022 15:00	12.4	6	13	ENE (64)	54	0	
10/28/2022 16:00	12.6	8	14	ESE (107)	49	0	
10/28/2022 17:00	12.2	11	17	ESE (115)	55	0	
10/28/2022 18:00	10.1	5	9	E (86)	69	0	
10/28/2022 19:00	8.3	9	15	SE (138)	74	0	
10/28/2022 20:00	7.4	9	14	ESE (110)	84	0	
10/28/2022 21:00	5.8	7	10	ENE (73)	84	0	
10/28/2022 22:00	5.3	12	19	ESE (117)	82	0	
10/28/2022 23:00	5	17	23	ESE (119)	77	0	
10/29/2022 0:00	4.3	19	25	ESE (120)	80	0	
10/29/2022 1:00	3.6	17	22	ESE (113)	84	0	
10/29/2022 2:00	3.1	13	16	ESE (113)	85	0	
10/29/2022 3:00	3.2	17	19	ESE (119)	84	0	
10/29/2022 4:00	3.4	16	21	ESE (112)	86	0	
10/29/2022 5:00	2.7	13	16	E (100)	98	0	
10/29/2022 6:00	2.6	10	14	E (89)	100	0	
10/29/2022 7:00	3	9	13	ESE (120)	100	0	
10/29/2022 8:00	4.4	9	13	E (99)	100	0	0
10/29/2022 9:00	6.7	10	17	SE (138)	99	0	
10/29/2022 10:00	9.6	9	14	S (172)	92	0	
10/29/2022 11:00	12.4	8	12	SSE (152)	73	0	
10/29/2022 12:00	13.9	3	8	SSE (160)	62	0	
10/29/2022 13:00	15	4	13	SE (131)	50	0	
10/29/2022 14:00	15.7	9	18	ESE (122)	48	0	
10/29/2022 15:00	16.3	8	14	E (101)	46	0	
10/29/2022 16:00	16.6	9	15	SE (127)	50	0	
10/29/2022 17:00	15.6	11	16	SE (131)	56	0	
10/29/2022 18:00	12.8	14	18	SE (140)	66	0	
10/29/2022 19:00	10.7	14	20	SSE (147)	74	0	
10/29/2022 20:00	9.1	13	17	SE (128)	82	0	
10/29/2022 21:00	8	17	23	SE (144)	84	0	
10/29/2022 22:00	7.4	14	21	SE (135)	100	0	
10/29/2022 23:00	7.5	13	18	SE (128)	100	0	
10/30/2022 0:00	7.1	6	16	E (89)	100	0	
10/30/2022 1:00	5.7	4	7	E (80)	100	0	
10/30/2022 2:00	5.4	8	14	ESE (110)	100	0	
10/30/2022 3:00	6.7	16	20	ESE (119)	100	0	
10/30/2022 4:00	6.8	14	18	ESE (118)	100	0	
10/30/2022 5:00	6.3	14	18	ESE (112)	100	0	
10/30/2022 6:00	5.9	16	20	ESE (119)	100	0	
10/30/2022 7:00	6.3	16	21	SE (128)	100	0	
10/30/2022 8:00	6.7	15	18	ESE (122)	100	0	0
10/30/2022 9:00	8.2	16	20	ESE (110)	96	0	
10/30/2022 10:00	9.4	16	21	SE (142)	92	0	
10/30/2022 11:00	11.7	13	21	ESE (113)	79	0	
10/30/2022 12:00	13.2	9	14	SE (145)	67	0	
10/30/2022 13:00	15.3	10	17	SSE (153)	58	0	
10/30/2022 14:00	15.8	11	17	SE (133)	52	0	
10/30/2022 15:00	15.3	12	17	SE (138)	54	0	
10/30/2022 16:00	14.6	13	18	SSE (147)	57	0	
10/30/2022 17:00	13.3	11	17	SE (134)	65	0	
10/30/2022 18:00	11.6	14	19	ESE (118)	72	0	
10/30/2022 19:00	10.3	13	19	SE (132)	77	0	
10/30/2022 20:00	9.8	12	16	SE (126)	80	0	
10/30/2022 21:00	9.5	12	18	SE (136)	81	0	
10/30/2022 22:00	9.4	14	19	SE (124)	84	0	
10/30/2022 23:00	9.6	17	21	SE (128)	87	0	
10/31/2022 0:00	9.6	16	21	SE (126)	96	0	
10/31/2022 1:00	10	16	21	SE (136)	94	0	
10/31/2022 2:00	10.3	13	17	SE (142)	93	0	
10/31/2022 3:00	10.8	14	20	SSE (159)	91	0	
10/31/2022 4:00	10.7	10	17	SE (144)	100	0.8	
10/31/2022 5:00	10.8	6	11	SE (131)	100	0.2	
10/31/2022 6:00	11.1	6	9	ESE (113)	100	0	
10/31/2022 7:00	11.4	9	13	SE (128)	100	0	
10/31/2022 8:00	11.8	14	20	SE (129)	100	0	1
10/31/2022 9:00	12.2	13	20	ESE (122)	100	1.8	
10/31/2022 10:00	13	15	24	SE (137)	100	0.2	
10/31/2022 11:00	7.6	17	25	SSE (159)	100	0.8	
10/31/2022 12:00	13.6	16	25	SSE (153)	100	0	
10/31/2022 13:00	14.4	15	21	SSE (148)	100	0.2	
10/31/2022 14:00	15.4	13	18	SSE (160)	100	0	
10/31/2022 15:00	15.8	10	23	S (174)	100	0	
10/31/2022 16:00	15.4	8	14	SW (223)	100	0	
10/31/2022 17:00	15.4	8	14	SW (229)	100	0	
10/31/2022 18:00	15.2	5	10	SSW (208)	100	0	
10/31/2022 19:00	14.4	14	29	SW (230)	100	2.8	
10/31/2022 20:00	14.1	13	20	SW (234)	100	1.8	
10/31/2022 21:00	14.1	8	16	SSW (192)	100	0	
10/31/2022 22:00	14	4	8	SW (222)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/31/2022 23:00	13.8	4	11	S (188)	100	0	
11/1/2022 0:00	13.8	8	14	SW (222)	100	0	
11/1/2022 1:00	13.4	7	12	SW (222)	100	0.2	
11/1/2022 2:00	13.1	7	12	SW (230)	100	0	
11/1/2022 3:00	13.1	5	9	SSW (195)	100	0.2	
11/1/2022 4:00	13	5	8	SW (216)	100	0	
11/1/2022 5:00	12.9	8	15	WNW (295)	100	0	
11/1/2022 6:00	12.7	11	19	NW (322)	100	0	
11/1/2022 7:00	12.4	9	15	NW (314)	100	0	
11/1/2022 8:00	11.8	11	18	WNW (299)	100	0	8
11/1/2022 9:00	11.5	14	22	NW (310)	100	0	
11/1/2022 10:00	11.7	10	16	W (281)	100	0	
11/1/2022 11:00	11.2	7	14	NW (305)	100	0	
11/1/2022 12:00	15.2	9	15	WNW (289)	100	0	
11/1/2022 13:00	16	13	20	NW (305)	67	0	
11/1/2022 14:00	16.5	12	20	NW (324)	59	0	
11/1/2022 15:00	17.7	11	18	WSW (241)	55	0	
11/1/2022 16:00	18.1	8	15	NW (310)	55	0	
11/1/2022 17:00	17.8	6	12	W (269)	54	0	
11/1/2022 18:00	15.4	2	7	SSW (197)	73	0	
11/1/2022 19:00	12.9	1	4	WSW (251)	90	0	
11/1/2022 20:00	12	2	5	SW (233)	87	0	
11/1/2022 21:00	10.9	1	3	SSE (163)	100	0	
11/1/2022 22:00	10.3	1	3	SSE (166)	100	0	
11/1/2022 23:00	9.8	3	12	S (183)	100	0	
11/2/2022 0:00	10.2	5	10	SSE (166)	84	0	
11/2/2022 1:00	8.8	2	6	SSW (209)	100	0	
11/2/2022 2:00	9.9	5	10	SSW (206)	90	0	
11/2/2022 3:00	9.2	4	8	SSW (204)	100	0	
11/2/2022 4:00	8.8	1	4	S (183)	100	0	
11/2/2022 5:00	7.5	3	7	S (181)	100	0	
11/2/2022 6:00	6.8	3	7	NNE (24)	100	0	
11/2/2022 7:00	6.5	3	5	ESE (112)	100	0	
11/2/2022 8:00	7	2	4	ESE (106)	100	0.2	0.2
11/2/2022 9:00	9.5	4	11	ESE (114)	100	0	
11/2/2022 10:00	12.7	9	12	SE (136)	100	0	
11/2/2022 11:00	15.3	12	16	SE (140)	77	0	
11/2/2022 12:00	17.1	11	17	SSE (165)	68	0	
11/2/2022 13:00	18	11	19	SSE (155)	58	0	
11/2/2022 14:00	18.2	11	18	SSE (167)	62	0	
11/2/2022 15:00	18.1	14	22	SE (141)	63	0	
11/2/2022 16:00	17.5	14	20	SE (141)	68	0	
11/2/2022 17:00	16.3	13	18	SE (144)	77	0	
11/2/2022 18:00	14.1	13	16	SE (132)	84	0	
11/2/2022 19:00	12.3	14	18	SE (131)	100	0	
11/2/2022 20:00	10.7	13	19	SE (133)	100	0	
11/2/2022 21:00	9	16	21	SE (140)	100	0	
11/2/2022 22:00	8.7	19	25	SE (144)	100	0	
11/2/2022 23:00	8.8	15	24	SSE (149)	100	0	
11/3/2022 0:00	8.7	14	20	SSE (155)	100	0	
11/3/2022 1:00	8.4	13	19	S (178)	100	0	
11/3/2022 2:00	8.3	12	18	SSE (147)	100	0	
11/3/2022 3:00	8.4	10	14	SE (129)	100	0	
11/3/2022 4:00	8.3	11	17	SE (128)	100	0	
11/3/2022 5:00	8.3	8	13	ESE (102)	100	0	
11/3/2022 6:00	8.3	7	17	SE (142)	100	0	
11/3/2022 7:00	8.6	14	19	SE (144)	100	0	
11/3/2022 8:00	8.8	13	18	SSE (157)	100	0	0
11/3/2022 9:00	9.3	15	21	SSE (152)	100	0	
11/3/2022 10:00	10.2	11	16	SSE (166)	100	0	
11/3/2022 11:00	3.5	11	16	S (176)	100	0	
11/3/2022 12:00	14.8	14	22	SSE (163)	100	0	
11/3/2022 13:00	16.5	16	29	SSW (192)	74	0	
11/3/2022 14:00	17.8	16	28	SW (220)	69	0	
11/3/2022 15:00	18.3	15	26	SSW (198)	61	0	
11/3/2022 16:00	18	15	30	S (170)	59	0	
11/3/2022 17:00	16.6	16	26	S (182)	65	0	
11/3/2022 18:00	14.2	13	19	SSE (162)	74	0	
11/3/2022 19:00	12.3	14	19	SE (135)	84	0	
11/3/2022 20:00	10.8	17	23	SE (140)	100	0	
11/3/2022 21:00	10	18	26	SE (126)	100	0	
11/3/2022 22:00	9.3	15	20	ESE (121)	100	0	
11/3/2022 23:00	10	15	24	SSE (150)	100	0	
11/4/2022 0:00	10.6	17	24	SE (144)	100	0	
11/4/2022 1:00	10.6	15	22	SSE (156)	99	0	
11/4/2022 2:00	10.9	14	18	SSE (150)	99	0	
11/4/2022 3:00	11.3	14	19	SSE (161)	95	0	
11/4/2022 4:00	10.8	13	16	SSE (165)	98	0	
11/4/2022 5:00	11	12	17	S (171)	98	0	
11/4/2022 6:00	11.4	13	18	SSE (166)	97	0	
11/4/2022 7:00	11.4	14	18	SSE (166)	97	0	
11/4/2022 8:00	12	14	22	S (171)	95	0	0
11/4/2022 9:00	14.3	18	29	S (183)	83	0	
11/4/2022 10:00	16.2	18	30	SSE (148)	74	0	
11/4/2022 11:00	18.2	19	32	SSW (207)	67	0	
11/4/2022 12:00	19.7	20	36	SSE (156)	61	0	
11/4/2022 13:00	20.3	22	36	S (180)	57	0	
11/4/2022 14:00	21	20	38	S (182)	54	0	
11/4/2022 15:00	21	25	43	S (181)	54	0	
11/4/2022 16:00	20.1	26	41	S (183)	58	0	
11/4/2022 17:00	19.7	25	38	S (189)	59	0	
11/4/2022 18:00	18.9	23	35	S (170)	63	0	
11/4/2022 19:00	17.6	20	30	SSE (164)	67	0	
11/4/2022 20:00	17.4	21	29	S (171)	67	0	
11/4/2022 21:00	17.4	18	27	SSE (157)	67	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/4/2022 22:00	17	16	26	S (171)	67	0	
11/4/2022 23:00	16.9	16	23	SSE (159)	67	0	
11/5/2022 0:00	16.3	16	23	SSW (192)	67	0	
11/5/2022 1:00	16.7	17	27	S (179)	66	0	
11/5/2022 2:00	16.3	18	27	S (174)	67	0	
11/5/2022 3:00	16.2	19	27	SSE (160)	66	0	
11/5/2022 4:00	16	22	32	SSE (162)	67	0	
11/5/2022 5:00	15.9	24	35	SSE (166)	67	0	
11/5/2022 6:00	16.2	24	36	SSE (164)	67	0	
11/5/2022 7:00	16.3	25	36	SSE (155)	68	0	
11/5/2022 8:00	16.5	25	38	SSE (162)	67	0	0
11/5/2022 9:00	16.8	25	40	S (169)	68	0	
11/5/2022 10:00	17.9	28	44	S (187)	65	0	
11/5/2022 11:00	19.5	30	51	SW (226)	61	0	
11/5/2022 12:00	20.1	33	51	S (174)	60	0	
11/5/2022 13:00	21.3	36	70	S (187)	58	0	
11/5/2022 14:00	21.9	38	64	SSE (162)	55	0	
11/5/2022 15:00	22	35	50	SSE (166)	56	0	
11/5/2022 16:00	22.4	35	55	SSE (158)	53	0	
11/5/2022 17:00	22.1	36	54	SE (142)	54	0	
11/5/2022 18:00	22.1	34	50	SSE (168)	53	0	
11/5/2022 19:00	22.4	34	57	SSW (197)	51	0	
11/5/2022 20:00	22	29	56	SW (226)	57	0	
11/5/2022 21:00	18.4	38	74	SW (216)	84	1	
11/5/2022 22:00	17.3	23	49	SSW (201)	83	0	
11/5/2022 23:00	17.1	21	38	SSW (213)	79	0	
11/6/2022 0:00	16.4	22	38	SSW (210)	69	0	
11/6/2022 1:00	14.7	18	28	SSW (210)	63	0	
11/6/2022 2:00	12.4	17	30	SSW (202)	70	0	
11/6/2022 3:00	11.8	17	26	SSE (167)	72	0	
11/6/2022 4:00	11	15	27	SW (218)	75	0	
11/6/2022 5:00	9.4	11	20	SW (232)	84	0	
11/6/2022 6:00	8.3	10	15	SSW (213)	85	0	
11/6/2022 7:00	7.8	7	12	SSE (152)	79	0	1
11/6/2022 8:00	8.8	10	17	SW (216)	79	0	
11/6/2022 9:00	9.9	11	22	SSE (166)	69	0	
11/6/2022 10:00	11.6	13	25	SW (216)	64	0	
11/6/2022 11:00	13.3	19	34	SW (233)	58	0	
11/6/2022 12:00	14.8	22	37	SSW (210)	54	0	
11/6/2022 13:00	14.9	25	40	S (190)	55	0	
11/6/2022 14:00	15.4	24	38	SSW (205)	54	0	
11/6/2022 15:00	15.5	22	36	SW (218)	55	0	
11/6/2022 16:00	15.2	17	35	SSW (211)	57	0	
11/6/2022 17:00	13.8	13	21	SSW (204)	61	0	
11/6/2022 18:00	13.2	14	21	SSE (168)	59	0	
11/6/2022 19:00	12.8	14	22	SSW (198)	59	0	
11/6/2022 20:00	12.4	14	25	SSW (206)	61	0	
11/6/2022 21:00	11.1	10	15	SSW (202)	65	0	
11/6/2022 22:00	10.8	11	15	SW (221)	65	0	
11/6/2022 23:00	10.3	11	17	W (268)	69	0	
11/7/2022 0:00	9.7	10	15	WSW (254)	71	0	
11/7/2022 1:00	9.7	12	19	WSW (245)	70	0	
11/7/2022 2:00	9	12	18	WSW (254)	73	0	
11/7/2022 3:00	8	13	19	WSW (251)	75	0	
11/7/2022 4:00	7.7	14	18	W (263)	71	0	
11/7/2022 5:00	6.9	14	19	W (262)	70	0	
11/7/2022 6:00	6.1	12	18	W (272)	66	0	
11/7/2022 7:00	5.5	12	17	W (267)	65	0	0
11/7/2022 8:00	7.2	17	28	WNW (290)	60	0	
11/7/2022 9:00	9.1	24	39	WNW (287)	51	0	
11/7/2022 10:00	9.8	26	39	WNW (296)	41	0	
11/7/2022 11:00	10.1	24	36	W (281)	41	0	
11/7/2022 12:00	10.2	27	39	NW (311)	40	0	
11/7/2022 13:00	10.3	27	40	NW (306)	40	0	
11/7/2022 14:00	10.1	26	37	NW (306)	41	0	
11/7/2022 15:00	9.6	20	32	NNW (332)	46	0	
11/7/2022 16:00	8.6	16	31	NW (315)	55	0	
11/7/2022 17:00	6.8	9	17	NNW (339)	62	0	
11/7/2022 18:00	5.2	6	11	NNE (31)	72	0	
11/7/2022 19:00	4.4	5	8	N (7)	74	0	
11/7/2022 20:00	3.9	5	8	NNE (17)	73	0	
11/7/2022 21:00	3.9	7	11	N (354)	71	0	
11/7/2022 22:00	5.2	9	20	NNW (343)	68	0	
11/7/2022 23:00	5.1	8	14	NNW (348)	67	0	
11/8/2022 0:00	4.6	7	11	NNW (332)	71	0	
11/8/2022 1:00	5.1	5	11	N (1)	71	0	
11/8/2022 2:00	5	3	8	NW (324)	75	0	
11/8/2022 3:00	5.1	2	5	NE (47)	78	0	
11/8/2022 4:00	5.4	5	10	NNE (32)	78	0	
11/8/2022 5:00	5.6	8	14	ENE (67)	74	0	
11/8/2022 6:00	4.7	10	17	NE (48)	74	0	
11/8/2022 7:00	3.9	8	14	ENE (63)	76	0	0
11/8/2022 8:00	5	9	17	NE (34)	76	0	
11/8/2022 9:00	6.3	15	23	ENE (70)	69	0	
11/8/2022 10:00	7.2	16	23	NE (50)	65	0	
11/8/2022 11:00	8	12	19	ENE (62)	60	0	
11/8/2022 12:00	9	8	17	ENE (61)	55	0	
11/8/2022 13:00	9.8	7	17	NE (56)	54	0	
11/8/2022 14:00	10.2	9	21	E (101)	48	0	
11/8/2022 15:00	10.5	10	16	NE (55)	46	0	
11/8/2022 16:00	10	12	19	E (86)	48	0	
11/8/2022 17:00	7.9	5	10	NNE (25)	63	0	
11/8/2022 18:00	5.5	6	12	ENE (73)	71	0	
11/8/2022 19:00	5.7	10	22	SE (124)	69	0	
11/8/2022 20:00	5.6	17	24	ESE (116)	61	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/8/2022 21:00	4.5	21	30	ESE (104)	63	0	
11/8/2022 22:00	3.9	28	37	SE (125)	62	0	
11/8/2022 23:00	3.4	27	36	ESE (112)	59	0	
11/9/2022 0:00	3.4	28	38	ESE (121)	60	0	
11/9/2022 1:00	3.2	27	35	ESE (106)	72	0	
11/9/2022 2:00	3.5	30	39	ESE (108)	79	0	
11/9/2022 3:00	3.5	28	36	ESE (118)	79	0	
11/9/2022 4:00	3	24	32	ESE (121)	83	0	
11/9/2022 5:00	3	27	35	ESE (115)	83	0	
11/9/2022 6:00	3	21	34	SE (127)	85	0	
11/9/2022 7:00	3.1	20	27	ESE (117)	86	0	0
11/9/2022 8:00	4.7	21	27	SE (132)	80	0	
11/9/2022 9:00	7.5	18	24	SE (134)	73	0	
11/9/2022 10:00	11.7	20	29	SSE (167)	62	0	
11/9/2022 11:00	14.4	22	34	SSW (195)	47	0	
11/9/2022 12:00	15.6	19	34	SSE (166)	36	0	
11/9/2022 13:00	16.2	18	32	SSE (168)	36	0	
11/9/2022 14:00	16.4	20	29	S (172)	35	0	
11/9/2022 15:00	16	20	30	S (169)	36	0	
11/9/2022 16:00	14.8	16	25	SSE (167)	41	0	
11/9/2022 17:00	12.9	15	21	SSE (162)	44	0	
11/9/2022 18:00	12	16	21	SE (139)	48	0	
11/9/2022 19:00	11.6	15	19	SSE (148)	50	0	
11/9/2022 20:00	11.4	18	25	SE (145)	55	0	
11/9/2022 21:00	11.2	15	21	SSE (166)	57	0	
11/9/2022 22:00	12.1	14	19	SSE (165)	52	0	
11/9/2022 23:00	12.4	14	19	SSE (164)	44	0	
11/10/2022 0:00	11.9	14	20	S (177)	44	0	
11/10/2022 1:00	11.8	13	18	S (178)	45	0	
11/10/2022 2:00	11.4	14	20	S (171)	48	0	
11/10/2022 3:00	11.4	15	21	SSE (168)	49	0	
11/10/2022 4:00	10.9	15	21	S (169)	52	0	
11/10/2022 5:00	10.5	15	22	S (186)	54	0	
11/10/2022 6:00	10.7	17	22	SSW (192)	52	0	
11/10/2022 7:00	10.8	16	22	SSE (168)	54	0	0
11/10/2022 8:00	12	17	27	S (174)	54	0	
11/10/2022 9:00	14.4	18	28	S (181)	47	0	
11/10/2022 10:00	16.4	18	28	SW (217)	40	0	
11/10/2022 11:00	17.6	20	33	SSE (160)	40	0	
11/10/2022 12:00	18.6	19	31	S (172)	39	0	
11/10/2022 13:00	19.3	18	30	S (169)	38	0	
11/10/2022 14:00	19.9	18	29	S (170)	38	0	
11/10/2022 15:00	19.6	20	33	SSE (165)	39	0	
11/10/2022 16:00	18.2	19	29	S (169)	42	0	
11/10/2022 17:00	16	16	21	SSE (166)	47	0	
11/10/2022 18:00	15.3	22	30	SSE (160)	50	0	
11/10/2022 19:00	15	21	28	S (172)	50	0	
11/10/2022 20:00	15.1	19	28	SSE (162)	50	0	
11/10/2022 21:00	15.5	19	27	S (183)	53	0	
11/10/2022 22:00	15	16	26	SSE (159)	58	0	
11/10/2022 23:00	13.7	13	18	SSE (159)	63	0	
11/11/2022 0:00	13.4	14	22	SSE (155)	66	0	
11/11/2022 1:00	13.1	12	16	SSE (154)	67	0	
11/11/2022 2:00	12.7	12	17	SE (131)	72	0	
11/11/2022 3:00	11.8	12	17	SE (139)	75	0	
11/11/2022 4:00	11.7	13	17	SSE (152)	76	0	
11/11/2022 5:00	11.2	9	12	SE (145)	79	0	
11/11/2022 6:00	10.9	13	18	SE (130)	82	0	
11/11/2022 7:00	11.2	15	18	SE (125)	81	0	0
11/11/2022 8:00	11.5	17	22	SE (129)	84	0	
11/11/2022 9:00	12.3	18	24	SE (146)	84	0	
11/11/2022 10:00	13.3	15	20	SE (140)	84	0	
11/11/2022 11:00	14.1	15	21	S (175)	85	0	
11/11/2022 12:00	14.5	13	18	S (169)	87	0	
11/11/2022 13:00	14.6	7	12	SSE (151)	87	0	
11/11/2022 14:00	14.6	8	15	SE (127)	90	0	
11/11/2022 15:00	14.2	5	10	WSW (254)	100	0.2	
11/11/2022 16:00	13.8	1	5	ESE (121)	100	0	
11/11/2022 17:00	13.4	3	6	SE (146)	100	0	
11/11/2022 18:00	12.2	4	8	W (281)	100	0	
11/11/2022 19:00	11.6	8	17	NW (313)	100	0	
11/11/2022 20:00	11.8	18	27	NW (321)	100	0	
11/11/2022 21:00	10.4	20	29	N (354)	100	0	
11/11/2022 22:00	9.6	20	32	NW (320)	100	0	
11/11/2022 23:00	8.6	22	36	WNW (299)	100	0.2	
11/12/2022 0:00	7.1	28	39	NW (306)	100	0	
11/12/2022 1:00	5.5	28	41	NW (311)	97	0	
11/12/2022 2:00	4.7	25	40	NW (304)	88	0	
11/12/2022 3:00	4	22	33	WNW (288)	83	0	
11/12/2022 4:00	2.8	15	29	W (272)	86	0	
11/12/2022 5:00	2.5	13	22	WSW (253)	90	0	
11/12/2022 6:00	2	13	21	W (274)	88	0	
11/12/2022 7:00	2.3	13	23	WSW (249)	85	0	0.4
11/12/2022 8:00	2	15	23	W (266)	82	0	
11/12/2022 9:00	2.1	20	30	W (280)	78	0	
11/12/2022 10:00	2.3	16	30	W (266)	71	0	
11/12/2022 11:00	2.6	13	21	SW (221)	69	0	
11/12/2022 12:00	2.9	14	21	W (262)	68	0	
11/12/2022 13:00	1.5	13	24	SW (234)	100	0	
11/12/2022 14:00	0.1	8	14	SSW (202)	100	0.2	
11/12/2022 15:00	0.1	11	19	SW (228)	100	0.4	
11/12/2022 16:00	0.2	14	23	SW (218)	100	0.2	
11/12/2022 17:00	0.2	15	22	SW (230)	100	0	
11/12/2022 18:00	0.2	16	22	SW (234)	100	0.2	
11/12/2022 19:00	0.3	13	23	WSW (243)	100	0.2	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/12/2022 20:00	0.5	12	18	WSW (241)	100	0.2	
11/12/2022 21:00	0.3	15	20	SW (235)	100	0	
11/12/2022 22:00	0.2	13	20	WSW (244)	100	0	
11/12/2022 23:00	0.6	12	17	WSW (249)	100	0	
11/13/2022 0:00	1	15	20	W (260)	99	0	
11/13/2022 1:00	1.1	13	20	W (278)	96	0.2	
11/13/2022 2:00	1	12	21	WSW (253)	94	0	
11/13/2022 3:00	0.7	13	19	W (264)	97	0.2	
11/13/2022 4:00	0.8	15	23	WSW (251)	97	0	
11/13/2022 5:00	0.9	17	28	WNW (289)	95	0.2	
11/13/2022 6:00	0.6	20	30	WNW (292)	96	0	
11/13/2022 7:00	0.7	23	34	NW (307)	91	0.2	2.2
11/13/2022 8:00	0.9	24	37	NW (304)	80	0.4	
11/13/2022 9:00	1.2	25	40	WNW (298)	76	1.2	
11/13/2022 10:00	1.3	28	42	WNW (290)	72	1	
11/13/2022 11:00	1.7	26	38	NW (305)	65	0	
11/13/2022 12:00	1.3	23	36	WNW (299)	65	0	
11/13/2022 13:00	1.3	20	32	NW (310)	68	0	
11/13/2022 14:00	0.3	20	36	WNW (286)	83	0	
11/13/2022 15:00	0.7	19	32	WNW (289)	71	0	
11/13/2022 16:00	0.7	16	28	WSW (257)	66	0	
11/13/2022 17:00	0.5	15	26	WNW (283)	66	0	
11/13/2022 18:00	0.4	15	26	W (281)	67	0	
11/13/2022 19:00	0.4	12	19	WNW (289)	67	0	
11/13/2022 20:00	0.4	10	17	WNW (294)	66	0	
11/13/2022 21:00	0.2	9	13	W (264)	68	0	
11/13/2022 22:00	0	10	16	WSW (240)	69	0	
11/13/2022 23:00	-0.2	12	20	WSW (253)	69	0	
11/14/2022 0:00	-0.4	12	20	W (270)	70	0	
11/14/2022 1:00	-0.5	10	16	WNW (296)	65	0	
11/14/2022 2:00	-0.2	10	15	WNW (294)	62	0	
11/14/2022 3:00	-0.7	12	20	WSW (244)	69	0	
11/14/2022 4:00	-1.5	14	21	W (267)	71	0	
11/14/2022 5:00	-2.2	8	16	SW (232)	77	0	
11/14/2022 6:00	-2.8	9	12	WSW (244)	78	0	
11/14/2022 7:00	-2.6	11	14	WSW (238)	77	0	2.6
11/14/2022 8:00	-2.2	9	14	SW (233)	75	0	
11/14/2022 9:00	-0.2	11	17	WSW (254)	73	0	
11/14/2022 10:00	1.4	12	23	WSW (256)	63	0	
11/14/2022 11:00	1.8	12	21	WSW (248)	56	0	
11/14/2022 12:00	2.7	7	20	WNW (282)	51	0	
11/14/2022 13:00	2.4	11	18	NW (310)	53	0	
11/14/2022 14:00	2	10	16	NNW (340)	53	0	
11/14/2022 15:00	2	10	16	NNW (333)	53	0	
11/14/2022 16:00	1.3	5	14	N (0)	59	0	
11/14/2022 17:00	0.1	5	7	NNE (19)	63	0	
11/14/2022 18:00	-0.4	4	6	ENE (68)	67	0	
11/14/2022 19:00	-0.7	4	8	ESE (116)	73	0	
11/14/2022 20:00	-0.5	6	13	E (80)	74	0	
11/14/2022 21:00	-0.7	6	13	ENE (60)	70	0	
11/14/2022 22:00	-0.8	4	8	ENE (65)	73	0	
11/14/2022 23:00	-0.1	7	12	ENE (72)	73	0	
11/15/2022 0:00	0	10	13	E (81)	73	0	
11/15/2022 1:00	0.1	11	16	ENE (73)	76	0	
11/15/2022 2:00	0.3	15	19	ENE (72)	76	0	
11/15/2022 3:00	0.5	14	20	E (79)	75	0	
11/15/2022 4:00	0.6	16	23	E (89)	71	0	
11/15/2022 5:00	0.5	19	26	ENE (67)	69	0	
11/15/2022 6:00	0.4	17	26	ENE (65)	68	0	
11/15/2022 7:00	0.6	20	28	ENE (66)	68	0	0
11/15/2022 8:00	0.3	24	33	ENE (78)	78	0	
11/15/2022 9:00	0.1	24	31	ENE (75)	81	0	
11/15/2022 10:00	0.2	29	41	E (85)	84	0	
11/15/2022 11:00	0.3	28	37	ENE (73)	82	0	
11/15/2022 12:00	0.7	27	40	ENE (60)	78	0	
11/15/2022 13:00	1.2	27	38	E (87)	75	0	
11/15/2022 14:00	1.6	26	38	ENE (65)	72	0	
11/15/2022 15:00	2	18	27	ENE (75)	73	0	
11/15/2022 16:00	2	23	33	E (99)	80	0	
11/15/2022 17:00	0.8	21	30	E (90)	98	0	
11/15/2022 18:00	0.4	22	29	E (82)	100	0	
11/15/2022 19:00	0.5	16	25	ENE (66)	100	0	
11/15/2022 20:00	0.5	14	22	ENE (60)	100	0	
11/15/2022 21:00	0.1	14	18	ENE (69)	100	0	
11/15/2022 22:00	0	14	20	ENE (72)	100	0	
11/15/2022 23:00	0	14	19	ENE (71)	100	0	
11/16/2022 0:00	0	13	19	ENE (77)	100	0	
11/16/2022 1:00	0	12	15	E (87)	100	0	
11/16/2022 2:00	-0.1	5	12	ESE (102)	100	0	
11/16/2022 3:00	0	4	9	S (189)	100	0	
11/16/2022 4:00	0	7	16	SW (232)	100	0	
11/16/2022 5:00	0	13	19	SW (230)	100	0	
11/16/2022 6:00	0	14	21	WSW (252)	100	0.2	
11/16/2022 7:00	0.1	17	22	WSW (237)	100	0	0.2
11/16/2022 8:00	0.1	16	22	SW (233)	100	0	
11/16/2022 9:00	0.1	16	22	SW (235)	100	0.4	
11/16/2022 10:00	0.2	18	25	WSW (258)	100	1.2	
11/16/2022 11:00	0.2	16	24	W (263)	100	0.8	
11/16/2022 12:00	0.3	13	21	NW (305)	100	1	
11/16/2022 13:00	0.2	11	21	WNW (290)	100	1.4	
11/16/2022 14:00	0.1	6	11	WNW (288)	100	0.4	
11/16/2022 15:00	0.4	7	18	W (260)	100	1	
11/16/2022 16:00	1	14	23	WSW (251)	100	0.4	
11/16/2022 17:00	0.9	16	25	SW (230)	97	0.2	
11/16/2022 18:00	0.6	17	27	WSW (252)	99	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/16/2022 19:00	0.3	20	30	W (264)	100	0	
11/16/2022 20:00	0.1	18	27	WSW (255)	100	0	
11/16/2022 21:00	0	18	25	W (262)	100	0	
11/16/2022 22:00	-0.2	14	19	WSW (241)	100	0	
11/16/2022 23:00	-0.5	15	21	W (272)	100	0	
11/17/2022 0:00	-0.6	15	21	WSW (255)	100	0	
11/17/2022 1:00	-0.9	17	25	WSW (254)	100	0	
11/17/2022 2:00	-1	19	28	W (278)	100	0	
11/17/2022 3:00	-0.9	22	33	WNW (287)	100	0	
11/17/2022 4:00	-1.3	20	32	NW (315)	100	0	
11/17/2022 5:00	-1.5	23	36	WNW (301)	82	0	
11/17/2022 6:00	-1.9	23	34	W (278)	82	0	
11/17/2022 7:00	-2.3	20	29	W (271)	90	0	6.8
11/17/2022 8:00	-3.1	21	28	W (267)	90	0	
11/17/2022 9:00	-2.4	21	29	WSW (241)	90	0	
11/17/2022 10:00	-1.6	18	27	W (271)	86	0.2	
11/17/2022 11:00	-0.3	15	24	WSW (254)	76	0	
11/17/2022 12:00	0.3	17	26	WSW (244)	74	0	
11/17/2022 13:00	0.9	16	25	WSW (252)	75	0	
11/17/2022 14:00	1.1	18	29	SW (230)	74	0	
11/17/2022 15:00	1.2	17	30	SW (225)	75	0	
11/17/2022 16:00	0.2	18	28	SW (222)	100	0	
11/17/2022 17:00	-0.1	20	34	W (259)	90	0	
11/17/2022 18:00	-0.6	22	37	WSW (237)	100	0	
11/17/2022 19:00	-1.4	21	31	WSW (249)	100	0	
11/17/2022 20:00	-1.5	21	33	WSW (237)	80	0	
11/17/2022 21:00	-1.3	26	40	SSW (203)	75	0	
11/17/2022 22:00	-1.8	26	39	SW (234)	77	0	
11/17/2022 23:00	-1.8	26	36	SW (227)	79	0	
11/18/2022 0:00	-1.9	25	36	SW (224)	80	0	
11/18/2022 1:00	-1.8	23	33	WSW (243)	82	0	
11/18/2022 2:00	-1.7	21	29	SW (228)	86	0	
11/18/2022 3:00	-1.5	18	27	SW (232)	87	0	
11/18/2022 4:00	-1.1	19	31	SW (230)	82	0	
11/18/2022 5:00	-1.7	20	34	WSW (239)	100	0	
11/18/2022 6:00	-2.4	18	28	WSW (242)	99	0	
11/18/2022 7:00	-2.4	17	25	SW (226)	87	0	0.2
11/18/2022 8:00	-2.4	20	31	WSW (251)	84	0	
11/18/2022 9:00	-2.3	19	29	WSW (258)	80	0	
11/18/2022 10:00	-2	18	28	SW (234)	83	0	
11/18/2022 11:00	-1.5	21	35	WSW (245)	81	0.2	
11/18/2022 12:00	-1.2	24	34	SW (223)	73	0	
11/18/2022 13:00	-1.7	25	37	WSW (238)	82	0	
11/18/2022 14:00	-1.2	26	45	WSW (249)	76	0	
11/18/2022 15:00	-1.2	23	38	WSW (248)	77	0	
11/18/2022 16:00	-1.5	22	37	WSW (252)	81	0	
11/18/2022 17:00	-1.4	25	36	SW (231)	76	0	
11/18/2022 18:00	-2.1	26	40	SW (228)	79	0	
11/18/2022 19:00	-2.3	27	37	SW (229)	77	0	
11/18/2022 20:00	-2.5	23	36	SW (232)	78	0	
11/18/2022 21:00	-3	25	37	WSW (238)	76	0	
11/18/2022 22:00	-3.2	28	41	SW (231)	76	0	
11/18/2022 23:00	-3.8	25	39	WSW (245)	74	0	
11/19/2022 0:00	-3.9	23	35	SW (235)	74	0	
11/19/2022 1:00	-3.9	24	39	SSW (211)	73	0	
11/19/2022 2:00	-4.2	25	38	SW (234)	72	0	
11/19/2022 3:00	-4.5	24	34	SW (228)	70	0	
11/19/2022 4:00	-4.7	22	35	SW (219)	71	0	
11/19/2022 5:00	-5	22	33	SSW (207)	70	0	
11/19/2022 6:00	-5.2	24	39	SW (223)	70	0	
11/19/2022 7:00	-5.3	19	32	S (187)	70	0	0.2
11/19/2022 8:00	-5.2	22	38	SW (226)	69	0	
11/19/2022 9:00	-4.8	26	41	SW (231)	68	0	
11/19/2022 10:00	-4.2	29	46	SW (221)	64	0	
11/19/2022 11:00	-4	29	48	SSW (198)	64	0	
11/19/2022 12:00	-3.9	28	44	SSW (198)	64	0	
11/19/2022 13:00	-3.7	26	44	SSW (209)	64	0	
11/19/2022 14:00	-3	28	45	SSW (205)	61	0	
11/19/2022 15:00	-2.9	28	48	SSW (206)	59	0	
11/19/2022 16:00	-2.8	25	45	WSW (237)	58	0	
11/19/2022 17:00	-2.9	28	51	SW (220)	59	0	
11/19/2022 18:00	-3.1	32	47	SW (234)	63	0	
11/19/2022 19:00	-3.2	29	47	WSW (253)	64	0	
11/19/2022 20:00	-4.1	26	42	WSW (258)	81	0	
11/19/2022 21:00	-5.3	25	40	WSW (248)	84	0	
11/19/2022 22:00	-5.9	22	34	WSW (249)	75	0	
11/19/2022 23:00	-6.4	24	34	W (262)	73	0	
11/20/2022 0:00	-6.8	25	36	W (267)	71	0	
11/20/2022 1:00	-7.2	25	37	WSW (256)	73	0	
11/20/2022 2:00	-7.4	28	39	SW (231)	73	0	
11/20/2022 3:00	-8	23	37	SW (236)	72	0	
11/20/2022 4:00	-8.5	24	34	WSW (246)	72	0	
11/20/2022 5:00	-8.8	22	34	WSW (249)	73	0	
11/20/2022 6:00	-8.9	24	35	W (260)	73	0	
11/20/2022 7:00	-8.9	22	32	WSW (253)	71	0	0
11/20/2022 8:00	-8.3	23	34	WSW (256)	69	0	
11/20/2022 9:00	-7.1	28	40	W (268)	67	0	
11/20/2022 10:00	-6.1	28	41	WNW (283)	58	0	
11/20/2022 11:00	-5.4	31	48	W (263)	53	0	
11/20/2022 12:00	-5.4	29	46	WSW (239)	57	0	
11/20/2022 13:00	-5.1	26	43	WSW (258)	58	0	
11/20/2022 14:00	-5.1	22	33	WNW (288)	56	0	
11/20/2022 15:00	-4.4	20	30	WSW (249)	55	0	
11/20/2022 16:00	-4.9	19	32	W (262)	61	0	
11/20/2022 17:00	-6.2	9	16	SW (226)	66	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/20/2022 18:00	-6.6	7	12	S (185)	66	0	
11/20/2022 19:00	-6.6	8	15	SW (217)	69	0	
11/20/2022 20:00	-6.4	10	15	SSW (201)	71	0	
11/20/2022 21:00	-6.9	8	15	SSE (164)	74	0	
11/20/2022 22:00	-7.1	10	17	SSW (201)	75	0	
11/20/2022 23:00	-7.2	10	16	SW (215)	75	0	
11/21/2022 0:00	-7.3	9	15	SSW (196)	75	0	
11/21/2022 1:00	-6.8	11	17	SSE (167)	65	0	
11/21/2022 2:00	-7.3	15	21	S (175)	66	0	
11/21/2022 3:00	-6.1	17	24	S (188)	63	0	
11/21/2022 4:00	-5.1	16	25	SSW (209)	58	0	
11/21/2022 5:00	-4.5	17	30	SW (216)	58	0	
11/21/2022 6:00	-3.6	21	34	SSW (202)	57	0	
11/21/2022 7:00	-3	22	39	SSW (192)	57	0	0
11/21/2022 8:00	-2.2	21	33	S (188)	57	0	
11/21/2022 9:00	-1.2	22	34	SSW (207)	56	0	
11/21/2022 10:00	0.1	27	43	SW (223)	54	0	
11/21/2022 11:00	1	29	47	SW (228)	51	0	
11/21/2022 12:00	1.9	29	53	SSW (211)	50	0	
11/21/2022 13:00	2.7	31	52	SW (220)	48	0	
11/21/2022 14:00	3.8	29	54	SW (222)	49	0	
11/21/2022 15:00	4.3	27	44	WSW (255)	45	0	
11/21/2022 16:00	3.5	16	26	W (267)	54	0	
11/21/2022 17:00	2.2	14	23	W (273)	59	0	
11/21/2022 18:00	0.8	13	20	W (270)	63	0	
11/21/2022 19:00	-0.1	11	17	WSW (241)	68	0	
11/21/2022 20:00	-0.2	10	13	W (266)	70	0	
11/21/2022 21:00	0.1	9	12	WSW (240)	75	0	
11/21/2022 22:00	1.2	8	16	NW (317)	76	0	
11/21/2022 23:00	1.5	8	13	W (272)	71	0	
11/22/2022 0:00	0.8	3	8	W (279)	73	0	
11/22/2022 1:00	-0.3	4	6	SSW (210)	75	0	
11/22/2022 2:00	-0.3	6	10	SW (219)	73	0	
11/22/2022 3:00	-1.4	5	8	SSW (199)	78	0	
11/22/2022 4:00	-2.3	7	11	S (174)	83	0	
11/22/2022 5:00	-2.6	9	11	S (174)	82	0	
11/22/2022 6:00	-2.8	7	9	SSE (156)	83	0	
11/22/2022 7:00	-2.2	8	12	ESE (120)	81	0	0
11/22/2022 8:00	-2.2	8	14	ESE (118)	83	0	
11/22/2022 9:00	0.8	11	15	SSE (150)	78	0	
11/22/2022 10:00	3.4	11	20	SSW (197)	75	0	
11/22/2022 11:00	4.9	16	24	WSW (238)	65	0	
11/22/2022 12:00	5.9	17	26	SW (215)	56	0	
11/22/2022 13:00	6.5	18	29	SSW (211)	51	0	
11/22/2022 14:00	6.6	18	35	WSW (256)	50	0	
11/22/2022 15:00	6.5	13	23	SW (218)	51	0	
11/22/2022 16:00	5.4	10	17	SSW (200)	53	0	
11/22/2022 17:00	4	11	18	SSW (210)	56	0	
11/22/2022 18:00	3.6	8	15	WSW (244)	61	0	
11/22/2022 19:00	2.6	5	9	N (0)	65	0	
11/22/2022 20:00	1.7	2	9	NW (304)	71	0	
11/22/2022 21:00	0.6	2	6	SW (223)	78	0	
11/22/2022 22:00	0.4	4	8	W (263)	73	0	
11/22/2022 23:00	-0.2	6	9	W (259)	72	0	
11/23/2022 0:00	-0.5	8	12	WSW (256)	73	0	
11/23/2022 1:00	-0.9	6	10	WSW (244)	75	0	
11/23/2022 2:00	-1	8	11	WSW (244)	77	0	
11/23/2022 3:00	-1.2	5	9	WSW (246)	79	0	
11/23/2022 4:00	-1.2	7	10	SW (234)	81	0	
11/23/2022 5:00	-1	6	8	SSW (208)	79	0	
11/23/2022 6:00	-1.3	5	10	S (178)	77	0	
11/23/2022 7:00	-1.7	7	11	S (175)	79	0	0
11/23/2022 8:00	-0.6	8	13	SSW (211)	76	0	
11/23/2022 9:00	1.8	6	12	SSW (199)	75	0	
11/23/2022 10:00	4	10	17	SSW (193)	70	0	
11/23/2022 11:00	5.9	9	17	SE (145)	57	0	
11/23/2022 12:00	7.7	8	14	S (180)	48	0	
11/23/2022 13:00	9.2	9	16	SSE (164)	43	0	
11/23/2022 14:00	9.8	9	16	S (170)	43	0	
11/23/2022 15:00	10.2	7	13	SSW (201)	45	0	
11/23/2022 16:00	9	6	10	S (171)	57	0	
11/23/2022 17:00	5.8	11	15	SSE (162)	68	0	
11/23/2022 18:00	4.1	11	14	SE (138)	77	0	
11/23/2022 19:00	3.2	11	14	SSE (160)	81	0	
11/23/2022 20:00	2.4	7	13	SE (127)	86	0	
11/23/2022 21:00	1.5	5	10	ESE (113)	97	0	
11/23/2022 22:00	1.8	8	13	SE (138)	100	0	
11/23/2022 23:00	2.3	12	15	SE (127)	100	0	
11/24/2022 0:00	2.4	15	18	ESE (113)	100	0	
11/24/2022 1:00	1.3	16	20	SE (137)	100	0	
11/24/2022 2:00	1	9	17	SE (137)	100	0	
11/24/2022 3:00	1.3	8	15	SSE (152)	100	0	
11/24/2022 4:00	0.9	7	13	ESE (117)	100	0	
11/24/2022 5:00	0.8	6	11	S (185)	100	0	
11/24/2022 6:00	1.2	9	13	S (181)	100	0	
11/24/2022 7:00	1.4	9	13	SSE (164)	99	0	0
11/24/2022 8:00	1.9	9	16	S (169)	93	0	
11/24/2022 9:00	4.4	11	18	S (188)	83	0	
11/24/2022 10:00	7.2	11	20	WSW (251)	67	0	
11/24/2022 11:00	8.9	12	23	SW (224)	61	0	
11/24/2022 12:00	10.7	13	24	SW (229)	54	0	
11/24/2022 13:00	11.6	13	24	S (180)	43	0	
11/24/2022 14:00	12.1	14	26	SSW (199)	42	0	
11/24/2022 15:00	11.2	9	20	SSW (192)	47	0	
11/24/2022 16:00	9.4	10	14	SSE (168)	53	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/24/2022 17:00	8.1	12	17	S (169)	56	0	
11/24/2022 18:00	7.6	12	16	SSE (161)	58	0	
11/24/2022 19:00	7	12	17	SSE (154)	59	0	
11/24/2022 20:00	6.8	11	15	SE (133)	62	0	
11/24/2022 21:00	7.1	11	22	SW (226)	66	0	
11/24/2022 22:00	6.9	12	20	SW (235)	82	0.4	
11/24/2022 23:00	6.4	18	29	SW (236)	100	0.2	
11/25/2022 0:00	6	15	26	SW (214)	100	0	
11/25/2022 1:00	6.3	19	30	SW (219)	100	0	
11/25/2022 2:00	6.7	18	26	SW (228)	100	0	
11/25/2022 3:00	6.9	18	26	W (280)	100	0	
11/25/2022 4:00	6.9	20	38	WNW (291)	100	0	
11/25/2022 5:00	6.8	24	38	NW (321)	100	0	
11/25/2022 6:00	6.1	27	42	NW (312)	91	0	
11/25/2022 7:00	5.4	27	38	NW (312)	89	0	0.6
11/25/2022 8:00	5.1	24	37	W (279)	80	0	
11/25/2022 9:00	5	28	49	WNW (300)	74	0	
11/25/2022 10:00	4.9	26	40	NW (308)	72	0	
11/25/2022 11:00	5.3	25	40	WNW (299)	67	0	
11/25/2022 12:00	5.7	29	41	NW (306)	64	0	
11/25/2022 13:00	5.7	28	40	NW (324)	63	0	
11/25/2022 14:00	5.9	24	33	NW (315)	64	0	
11/25/2022 15:00	6.2	19	27	WNW (298)	64	0	
11/25/2022 16:00	5.6	12	19	NW (324)	70	0	
11/25/2022 17:00	4.2	5	9	NW (312)	72	0	
11/25/2022 18:00	3.3	4	5	SW (228)	78	0	
11/25/2022 19:00	2.4	6	12	S (179)	80	0	
11/25/2022 20:00	2.1	6	10	SW (220)	80	0	
11/25/2022 21:00	1.6	4	9	SW (232)	80	0	
11/25/2022 22:00	0.7	8	12	SW (234)	82	0	
11/25/2022 23:00	0.1	9	13	WSW (238)	82	0	
11/26/2022 0:00	-0.1	9	14	WSW (239)	86	0	
11/26/2022 1:00	-0.1	8	11	SW (222)	93	0	
11/26/2022 2:00	-0.2	8	13	SW (214)	99	0	
11/26/2022 3:00	-0.4	8	12	SW (225)	96	0	
11/26/2022 4:00	-0.7	6	13	SSW (212)	100	0	
11/26/2022 5:00	0.2	11	17	SW (226)	99	0	
11/26/2022 6:00	0	12	17	S (189)	100	0	
11/26/2022 7:00	0.2	12	20	SW (221)	100	0	0
11/26/2022 8:00	0.9	15	26	SSW (206)	97	0	
11/26/2022 9:00	2.4	15	24	SSW (212)	86	0	
11/26/2022 10:00	4.9	16	28	SW (235)	78	0	
11/26/2022 11:00	7.4	20	30	SW (232)	69	0	
11/26/2022 12:00	9.3	21	32	SW (221)	58	0	
11/26/2022 13:00	10.5	20	30	SW (223)	50	0	
11/26/2022 14:00	10.5	21	36	SSW (198)	47	0	
11/26/2022 15:00	9.9	22	35	SSW (213)	50	0	
11/26/2022 16:00	9	18	29	SSW (207)	52	0	
11/26/2022 17:00	7.7	17	30	SSW (202)	52	0	
11/26/2022 18:00	6.8	16	26	SSW (212)	54	0	
11/26/2022 19:00	6.2	18	29	SSW (196)	54	0	
11/26/2022 20:00	5.8	14	27	SSW (200)	57	0	
11/26/2022 21:00	5	14	19	SSW (204)	59	0	
11/26/2022 22:00	5.1	13	22	SW (214)	61	0	
11/26/2022 23:00	5	12	22	SW (218)	61	0	
11/27/2022 0:00	4.3	9	13	S (175)	67	0	
11/27/2022 1:00	3.6	11	15	S (173)	72	0	
11/27/2022 2:00	4.3	9	14	SSW (194)	71	0	
11/27/2022 3:00	4.5	8	13	SE (134)	70	0	
11/27/2022 4:00	4.2	10	14	SE (135)	71	0	
11/27/2022 5:00	4.2	15	19	ESE (123)	75	0	
11/27/2022 6:00	4.7	13	18	ESE (114)	80	0	
11/27/2022 7:00	5.1	13	21	SE (140)	83	0	0
11/27/2022 8:00	4.8	9	14	ESE (115)	100	1.4	
11/27/2022 9:00	4.9	8	14	ENE (65)	100	2.2	
11/27/2022 10:00	5.2	12	17	NE (53)	100	0	
11/27/2022 11:00	5.4	13	18	NE (36)	100	0	
11/27/2022 12:00	5.8	17	28	ENE (63)	97	0	
11/27/2022 13:00	5.2	14	21	ENE (77)	100	0.8	
11/27/2022 14:00	4.7	10	19	NE (37)	100	4.4	
11/27/2022 15:00	4.5	11	22	NNW (341)	100	2.8	
11/27/2022 16:00	4.4	10	16	N (0)	100	1	
11/27/2022 17:00	4.1	14	26	NNW (347)	100	0.4	
11/27/2022 18:00	4.1	13	24	NNW (327)	100	0.2	
11/27/2022 19:00	4.4	15	28	NNW (331)	100	0.6	
11/27/2022 20:00	4.7	15	26	NNW (328)	100	0.2	
11/27/2022 21:00	5	14	24	NW (313)	99	0	
11/27/2022 22:00	5.2	16	26	NW (314)	99	0	
11/27/2022 23:00	5.3	20	30	NW (304)	100	0	
11/28/2022 0:00	4.7	22	33	NW (320)	100	0	
11/28/2022 1:00	4.5	22	31	NW (325)	98	0	
11/28/2022 2:00	4.3	17	27	N (349)	94	0	
11/28/2022 3:00	4.1	15	26	NNW (346)	93	0	
11/28/2022 4:00	3.7	11	27	NNW (348)	96	0	
11/28/2022 5:00	3.5	9	18	NNW (343)	91	0	
11/28/2022 6:00	2.2	6	14	NNE (26)	100	0	
11/28/2022 7:00	1.8	8	13	NNW (340)	100	0.4	14.4
11/28/2022 8:00	1.1	7	12	NE (38)	100	0	
11/28/2022 9:00	1.7	5	11	NE (35)	100	0	
11/28/2022 10:00	2.6	6	12	NE (42)	100	0	
11/28/2022 11:00	2.9	5	10	NW (314)	91	0	
11/28/2022 12:00	2.9	6	14	NW (316)	94	0	
11/28/2022 13:00	2.9	3	10	NW (305)	93	0	
11/28/2022 14:00	3.2	7	14	NW (308)	87	0	
11/28/2022 15:00	3.3	5	9	NNE (31)	91	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/28/2022 16:00	3	3	6	ENE (71)	94	0	
11/28/2022 17:00	2.9	2	8	SE (134)	92	0	
11/28/2022 18:00	2.9	3	7	S (172)	92	0	
11/28/2022 19:00	3	7	15	ESE (117)	94	0	
11/28/2022 20:00	2.9	9	13	ESE (117)	99	0	
11/28/2022 21:00	2.8	9	13	S (172)	96	0	
11/28/2022 22:00	2.7	9	16	SSW (198)	84	0	
11/28/2022 23:00	2.5	9	17	S (172)	77	0	
11/29/2022 0:00	2.5	8	12	SSE (155)	76	0	
11/29/2022 1:00	2.7	7	11	SSE (165)	74	0	
11/29/2022 2:00	2.7	8	14	SE (139)	73	0	
11/29/2022 3:00	2.6	8	13	SE (124)	77	0	
11/29/2022 4:00	2.5	16	20	SE (132)	77	0	
11/29/2022 5:00	2.4	17	21	SE (127)	78	0	
11/29/2022 6:00	2.2	16	20	ESE (118)	81	0	
11/29/2022 7:00	2.4	15	19	ESE (123)	81	0	0
11/29/2022 8:00	2.8	17	22	ESE (107)	78	0	
11/29/2022 9:00	3.3	18	23	SE (127)	80	0	
11/29/2022 10:00	4.4	20	28	SE (133)	83	0	
11/29/2022 11:00	5.5	20	27	SE (138)	88	0	
11/29/2022 12:00	6.7	24	32	SSE (149)	90	0	
11/29/2022 13:00	7.2	25	34	SSE (152)	87	0	
11/29/2022 14:00	7.7	26	39	SE (143)	85	0	
11/29/2022 15:00	7.7	27	36	SE (142)	84	0	
11/29/2022 16:00	7.4	28	36	SE (141)	84	0	
11/29/2022 17:00	7	26	35	ESE (123)	86	0	
11/29/2022 18:00	6.8	31	43	SE (132)	86	0	
11/29/2022 19:00	7.3	30	40	SE (128)	84	0	
11/29/2022 20:00	7.5	30	40	SE (131)	82	0	
11/29/2022 21:00	8	31	39	SE (124)	81	0	
11/29/2022 22:00	8.6	32	43	SE (131)	80	0.2	
11/29/2022 23:00	9.2	34	46	SE (145)	78	0	
11/30/2022 0:00	9.3	31	42	SSE (148)	78	0	
11/30/2022 1:00	10.5	26	38	S (177)	76	0	
11/30/2022 2:00	11.4	26	43	SE (137)	67	0	
11/30/2022 3:00	11.7	24	44	SSE (159)	71	0	
11/30/2022 4:00	10.9	22	40	SW (227)	86	0.4	
11/30/2022 5:00	10.4	18	30	S (180)	100	0	
11/30/2022 6:00	10.2	19	31	SW (214)	100	0	
11/30/2022 7:00	8.8	26	53	W (263)	100	0	0.6
11/30/2022 8:00	4.5	29	48	WNW (283)	91	0	
11/30/2022 9:00	3	33	53	W (277)	77	0	
11/30/2022 10:00	2.4	33	54	W (261)	75	0	
11/30/2022 11:00	1	40	61	W (263)	72	0	
11/30/2022 12:00	0	30	51	WNW (301)	67	0	
11/30/2022 13:00	-0.8	36	61	WSW (252)	67	0	
11/30/2022 14:00	-1	33	52	WSW (254)	65	0	
11/30/2022 15:00	-1	30	48	W (271)	64	0	
11/30/2022 16:00	-0.9	27	43	SW (234)	64	0	
11/30/2022 17:00	-0.8	29	46	WSW (246)	64	0	
11/30/2022 18:00	-1	28	47	WSW (242)	67	0	
11/30/2022 19:00	-1.4	27	41	WSW (249)	74	0	
11/30/2022 20:00	-1.5	29	49	W (269)	69	0	
11/30/2022 21:00	-1.5	27	46	WSW (256)	64	0	
11/30/2022 22:00	-1.5	26	46	W (260)	65	0	
11/30/2022 23:00	-2.4	27	44	WSW (255)	82	0	
12/1/2022 0:00	-2.3	33	53	W (261)	74	0	
12/1/2022 1:00	-2.6	31	52	W (261)	62	0	
12/1/2022 2:00	-2.9	28	44	NW (310)	68	0	
12/1/2022 3:00	-3.2	26	43	WNW (287)	72	0	
12/1/2022 4:00	-3.2	26	39	WNW (290)	67	0	
12/1/2022 5:00	-3.4	25	42	WNW (298)	66	0	
12/1/2022 6:00	-3.4	24	36	WNW (288)	66	0	
12/1/2022 7:00	-3.4	24	38	WNW (288)	63	0	0
12/1/2022 8:00	-3.2	21	35	WSW (250)	64	0	
12/1/2022 9:00	-3	23	36	WSW (243)	64	0	
12/1/2022 10:00	-2.7	21	31	W (268)	63	0	
12/1/2022 11:00	-2.2	18	29	WNW (283)	62	0	
12/1/2022 12:00	-1.7	14	25	WNW (284)	60	0	
12/1/2022 13:00	-1.2	11	24	WSW (239)	60	0	
12/1/2022 14:00	-0.6	13	19	WSW (246)	58	0	
12/1/2022 15:00	0	12	20	WNW (285)	56	0	
12/1/2022 16:00	-0.2	7	16	S (180)	59	0	
12/1/2022 17:00	-1.4	6	11	SSE (150)	70	0	
12/1/2022 18:00	-2	7	12	SSE (151)	73	0	
12/1/2022 19:00	-2.3	12	17	S (169)	76	0	
12/1/2022 20:00	-2.4	13	20	SSE (166)	78	0	
12/1/2022 21:00	-2.5	12	17	SSE (156)	78	0	
12/1/2022 22:00	-2.6	11	16	S (173)	79	0	
12/1/2022 23:00	-2.5	11	16	S (184)	80	0	
12/2/2022 0:00	-1.9	11	17	SSE (156)	77	0	
12/2/2022 1:00	-1.7	13	17	S (170)	76	0	
12/2/2022 2:00	-1.5	15	21	SSE (166)	75	0	
12/2/2022 3:00	-1.3	16	22	SSE (158)	74	0	
12/2/2022 4:00	-0.8	16	22	SSE (151)	76	0	
12/2/2022 5:00	-0.2	18	27	SSE (149)	76	0	
12/2/2022 6:00	0.6	21	28	SSE (150)	75	0	
12/2/2022 7:00	1	24	36	SSE (157)	73	0	0
12/2/2022 8:00	1.9	22	36	SSE (168)	71	0	
12/2/2022 9:00	2.5	23	34	SSE (165)	62	0	
12/2/2022 10:00	3.3	25	39	S (181)	60	0	
12/2/2022 11:00	4.7	27	38	SSE (153)	58	0	
12/2/2022 12:00	5.9	25	37	SSE (166)	53	0	
12/2/2022 13:00	6.9	25	41	SSE (165)	50	0	
12/2/2022 14:00	6.6	25	38	SSE (154)	51	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/2/2022 15:00	6.4	27	42	SSE (158)	49	0	
12/2/2022 16:00	6.3	27	38	SSE (160)	53	0	
12/2/2022 17:00	6.5	29	49	SSE (153)	53	0	
12/2/2022 18:00	7.2	32	46	S (170)	52	0	
12/2/2022 19:00	7.6	30	42	SSE (164)	53	0	
12/2/2022 20:00	7.8	28	41	SSE (159)	56	0	
12/2/2022 21:00	8.3	25	39	SSE (162)	54	0	
12/2/2022 22:00	9.1	21	34	SW (217)	57	0	
12/2/2022 23:00	9.4	21	36	SSW (210)	59	0	
12/3/2022 0:00	9.8	24	42	S (191)	63	0	
12/3/2022 1:00	9.8	24	39	SSW (208)	70	0	
12/3/2022 2:00	9.4	23	36	SSW (210)	83	0	
12/3/2022 3:00	9.2	23	41	SSW (210)	100	0	
12/3/2022 4:00	9	23	41	WSW (252)	100	0	
12/3/2022 5:00	9.3	22	37	SW (231)	100	0	
12/3/2022 6:00	9.2	20	30	SW (234)	100	0.2	
12/3/2022 7:00	9.3	22	37	SW (232)	100	0	0.2
12/3/2022 8:00	9.3	34	67	WNW (289)	100	1.4	
12/3/2022 9:00	4.9	42	71	W (277)	97	0.4	
12/3/2022 10:00	3.9	36	57	W (269)	85	0	
12/3/2022 11:00	3.2	32	55	WNW (293)	82	0	
12/3/2022 12:00	2.9	30	47	WNW (285)	74	0	
12/3/2022 13:00	2.6	29	51	W (274)	69	0	
12/3/2022 14:00	2.7	29	48	WNW (290)	65	0	
12/3/2022 15:00	2.2	24	40	WNW (290)	65	0	
12/3/2022 16:00	1.5	21	34	W (276)	65	0	
12/3/2022 17:00	0.6	20	31	WNW (301)	63	0	
12/3/2022 18:00	0.4	18	30	W (279)	65	0	
12/3/2022 19:00	-0.3	16	27	W (267)	68	0	
12/3/2022 20:00	-1.4	15	24	W (261)	72	0	
12/3/2022 21:00	-2.4	15	24	WNW (283)	74	0	
12/3/2022 22:00	-2.9	17	27	WSW (251)	71	0	
12/3/2022 23:00	-3.3	18	26	W (267)	69	0	
12/4/2022 0:00	-3.9	15	23	W (262)	71	0	
12/4/2022 1:00	-3.8	11	20	SW (231)	75	0	
12/4/2022 2:00	-4.2	12	22	WSW (248)	75	0	
12/4/2022 3:00	-5.1	10	16	WSW (240)	79	0	
12/4/2022 4:00	-6	11	17	SW (234)	80	0	
12/4/2022 5:00	-6.5	9	12	SW (224)	82	0	
12/4/2022 6:00	-6.8	6	11	SSW (211)	82	0	
12/4/2022 7:00	-6.5	8	13	SSW (204)	81	0	1.8
12/4/2022 8:00	-5.6	10	16	WSW (241)	80	0	
12/4/2022 9:00	-3.7	13	24	SW (227)	78	0	
12/4/2022 10:00	-2.7	16	29	SW (226)	77	0	
12/4/2022 11:00	-1.2	21	31	SW (214)	74	0	
12/4/2022 12:00	-0.1	20	35	SSW (204)	63	0	
12/4/2022 13:00	0.5	21	32	SW (218)	61	0	
12/4/2022 14:00	0.8	22	35	SW (221)	56	0	
12/4/2022 15:00	0.5	21	36	S (184)	56	0	
12/4/2022 16:00	-0.1	17	29	SSW (194)	58	0	
12/4/2022 17:00	-0.7	18	32	SSW (192)	59	0	
12/4/2022 18:00	-1.2	17	27	SSW (199)	62	0	
12/4/2022 19:00	-1.6	18	30	SW (227)	63	0	
12/4/2022 20:00	-1.9	17	26	SW (215)	66	0	
12/4/2022 21:00	-1.7	18	32	SW (227)	64	0	
12/4/2022 22:00	-1.5	17	29	SW (217)	64	0	
12/4/2022 23:00	-1.7	15	23	SSW (194)	66	0	
12/5/2022 0:00	-2	14	23	SW (216)	67	0	
12/5/2022 1:00	-2.6	14	22	S (181)	71	0	
12/5/2022 2:00	-2.2	16	25	SSW (206)	69	0	
12/5/2022 3:00	-2.2	15	23	SSW (194)	69	0	
12/5/2022 4:00	-2.5	15	22	SW (233)	69	0	
12/5/2022 5:00	-2.4	16	24	SSW (203)	66	0	
12/5/2022 6:00	-2.5	16	25	S (185)	67	0	
12/5/2022 7:00	-2.6	15	24	S (189)	69	0	0
12/5/2022 8:00	-2	16	24	S (188)	68	0	
12/5/2022 9:00	-0.6	14	28	SSW (192)	65	0	
12/5/2022 10:00	0.7	18	32	SSW (204)	63	0	
12/5/2022 11:00	1.6	17	26	SSW (212)	61	0	
12/5/2022 12:00	2.5	16	29	SSW (192)	60	0	
12/5/2022 13:00	3.4	15	26	SSW (208)	55	0	
12/5/2022 14:00	3.8	11	20	S (170)	52	0	
12/5/2022 15:00	3.4	12	17	SSE (166)	57	0	
12/5/2022 16:00	3.2	16	23	S (170)	58	0	
12/5/2022 17:00	3.2	14	24	SSE (153)	56	0	
12/5/2022 18:00	3.1	10	15	SE (130)	61	0	
12/5/2022 19:00	3.2	15	23	SE (141)	63	0	
12/5/2022 20:00	3.8	18	26	SSE (151)	63	0	
12/5/2022 21:00	4.2	16	21	SE (137)	66	0	
12/5/2022 22:00	4.2	5	19	WSW (239)	68	0	
12/5/2022 23:00	4.1	4	8	SSW (201)	71	0	
12/6/2022 0:00	3.8	4	8	S (171)	75	0	
12/6/2022 1:00	3.8	2	5	SW (220)	79	0	
12/6/2022 2:00	4	7	12	SE (138)	77	0	
12/6/2022 3:00	4	5	14	ESE (112)	68	0	
12/6/2022 4:00	3.9	6	10	SSE (148)	72	0	
12/6/2022 5:00	3.9	9	15	SE (140)	67	0	
12/6/2022 6:00	3.9	6	12	NW (320)	67	0	
12/6/2022 7:00	3.4	3	11	NNW (332)	69	0	0
12/6/2022 8:00	3.6	5	10	ESE (108)	70	0	
12/6/2022 9:00	4.4	5	13	S (171)	69	0	
12/6/2022 10:00	5.1	5	9	E (100)	73	0	
12/6/2022 11:00	5.7	12	27	SE (128)	86	0	
12/6/2022 12:00	5.9	11	26	WNW (298)	92	0	
12/6/2022 13:00	5.9	3	7	NE (41)	90	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/6/2022 14:00	5.7	4	7	NE (55)	100	0	
12/6/2022 15:00	5.5	6	10	E (89)	100	0	
12/6/2022 16:00	5.5	8	12	ESE (104)	100	0	
12/6/2022 17:00	5.4	11	15	E (87)	100	0	
12/6/2022 18:00	5.3	10	14	ESE (103)	100	0	
12/6/2022 19:00	5.3	11	16	ESE (114)	100	0	
12/6/2022 20:00	5.3	10	15	ESE (120)	100	0	
12/6/2022 21:00	5.2	7	13	ESE (111)	100	0	
12/6/2022 22:00	5.1	4	9	NE (48)	100	0	
12/6/2022 23:00	5.1	4	8	NE (41)	100	0	
12/7/2022 0:00	4.8	3	6	NNW (334)	100	0	
12/7/2022 1:00	4.8	4	8	N (9)	100	0	
12/7/2022 2:00	4.7	3	6	ENE (72)	100	0	
12/7/2022 3:00	4.7	4	6	NNE (23)	100	0	
12/7/2022 4:00	4.6	4	10	NNW (334)	100	0	
12/7/2022 5:00	4.6	3	7	NNW (335)	100	0	
12/7/2022 6:00	4.6	5	8	N (349)	100	0	
12/7/2022 7:00	4.8	6	12	N (5)	100	0	0
12/7/2022 8:00	5.1	6	12	N (0)	100	0	
12/7/2022 9:00	5.3	13	21	N (4)	100	0	
12/7/2022 10:00	5.4	7	17	NNE (20)	100	0	
12/7/2022 11:00	6.1	3	11	NNW (330)	100	0	
12/7/2022 12:00	6	10	17	NW (310)	100	0	
12/7/2022 13:00	5.9	9	14	NW (322)	100	0	
12/7/2022 14:00	6	11	18	NW (310)	100	0	
12/7/2022 15:00	5.9	10	16	NW (320)	100	0	
12/7/2022 16:00	5.6	9	16	NW (307)	100	0	
12/7/2022 17:00	5.1	12	18	NNW (342)	100	0	
12/7/2022 18:00	4.9	6	11	WNW (301)	100	0	
12/7/2022 19:00	4.7	4	8	NW (309)	100	0	
12/7/2022 20:00	4.7	5	9	WNW (302)	100	0	
12/7/2022 21:00	4.5	4	9	NW (308)	100	0	
12/7/2022 22:00	4.3	3	6	WSW (239)	100	0	
12/7/2022 23:00	4	5	8	W (266)	100	0	
12/8/2022 0:00	3.9	6	8	W (271)	100	0	
12/8/2022 1:00	3.7	5	9	NW (304)	100	0	
12/8/2022 2:00	3.9	8	15	NW (307)	100	0	
12/8/2022 3:00	3.8	8	12	W (281)	100	0	
12/8/2022 4:00	3.6	9	19	NW (313)	100	0	
12/8/2022 5:00	3.4	11	18	NW (310)	100	0	
12/8/2022 6:00	2.9	8	14	N (354)	100	0	
12/8/2022 7:00	2.4	4	10	N (11)	100	0	0
12/8/2022 8:00	2	5	14	N (354)	100	0.4	
12/8/2022 9:00	1.8	7	12	N (8)	100	0	
12/8/2022 10:00	2.6	13	21	NNE (19)	100	0	
12/8/2022 11:00	2.9	12	19	N (11)	98	0	
12/8/2022 12:00	3.2	12	22	NNE (13)	92	0	
12/8/2022 13:00	3.3	13	22	NNE (22)	82	0	
12/8/2022 14:00	2.9	15	24	N (0)	81	0	
12/8/2022 15:00	2.2	14	25	N (2)	81	0	
12/8/2022 16:00	1.8	12	26	NNW (346)	76	0	
12/8/2022 17:00	1.5	10	17	N (1)	76	0	
12/8/2022 18:00	1.4	9	16	N (6)	75	0	
12/8/2022 19:00	0.9	9	15	N (0)	72	0	
12/8/2022 20:00	0.3	11	17	NNE (17)	75	0	
12/8/2022 21:00	-0.3	9	17	N (6)	78	0	
12/8/2022 22:00	-0.6	9	15	NNE (28)	80	0	
12/8/2022 23:00	-0.9	9	16	NE (49)	80	0	
12/9/2022 0:00	-1.3	11	19	ENE (64)	79	0	
12/9/2022 1:00	-1.9	11	16	NE (50)	80	0	
12/9/2022 2:00	-2	10	17	NE (53)	81	0	
12/9/2022 3:00	-2.1	9	18	NE (49)	81	0	
12/9/2022 4:00	-2.2	8	14	NE (46)	83	0	
12/9/2022 5:00	-2.2	7	12	ENE (61)	84	0	
12/9/2022 6:00	-2.1	6	11	ENE (66)	85	0	
12/9/2022 7:00	-1.9	12	19	ENE (76)	85	0	0.4
12/9/2022 8:00	-1.6	15	21	ENE (68)	84	0	
12/9/2022 9:00	-1.6	19	28	E (84)	83	0	
12/9/2022 10:00	-1.7	17	26	E (79)	84	0	
12/9/2022 11:00	-0.1	16	23	E (91)	82	0	
12/9/2022 12:00	1	17	28	E (89)	77	0	
12/9/2022 13:00	1.9	22	32	ENE (68)	72	0	
12/9/2022 14:00	1.8	22	33	E (87)	72	0	
12/9/2022 15:00	1.1	22	32	E (79)	71	0	
12/9/2022 16:00	0.6	23	33	E (85)	73	0	
12/9/2022 17:00	0.3	20	32	E (81)	74	0	
12/9/2022 18:00	0.2	19	29	ENE (73)	75	0	
12/9/2022 19:00	0	20	28	ENE (64)	76	0	
12/9/2022 20:00	-0.1	17	29	ENE (67)	77	0	
12/9/2022 21:00	-0.3	22	33	ENE (73)	76	0	
12/9/2022 22:00	-0.5	19	26	E (80)	76	0	
12/9/2022 23:00	-0.5	16	23	E (86)	76	0	
12/10/2022 0:00	-0.4	20	32	E (99)	76	0	
12/10/2022 1:00	-0.4	18	27	E (98)	74	0	
12/10/2022 2:00	-0.6	17	25	E (88)	74	0	
12/10/2022 3:00	-1	17	26	ENE (75)	76	0	
12/10/2022 4:00	-1.4	11	18	NNE (24)	77	0	
12/10/2022 5:00	-2	7	12	ENE (57)	81	0	
12/10/2022 6:00	-3	7	14	ENE (62)	83	0	
12/10/2022 7:00	-3	10	14	ENE (77)	86	0	0
12/10/2022 8:00	-2.2	14	20	E (87)	86	0	
12/10/2022 9:00	-0.7	19	28	E (90)	81	0	
12/10/2022 10:00	-0.1	19	28	E (89)	75	0	
12/10/2022 11:00	0.5	15	23	SE (142)	74	0	
12/10/2022 12:00	1.2	16	24	E (84)	71	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/10/2022 13:00	1.8	21	31	ESE (106)	69	0	
12/10/2022 14:00	2	15	25	ESE (109)	69	0	
12/10/2022 15:00	1.8	12	19	E (86)	70	0	
12/10/2022 16:00	1.7	13	19	E (89)	71	0	
12/10/2022 17:00	1.3	14	21	ESE (102)	73	0	
12/10/2022 18:00	0.9	14	20	ESE (109)	78	0	
12/10/2022 19:00	1	12	17	E (84)	77	0	
12/10/2022 20:00	0.8	14	24	E (96)	80	0	
12/10/2022 21:00	0.7	12	20	E (83)	82	0	
12/10/2022 22:00	0.7	9	14	ESE (107)	82	0	
12/10/2022 23:00	0.7	12	17	E (98)	82	0	
12/11/2022 0:00	0.6	15	21	E (97)	85	0	
12/11/2022 1:00	0.5	13	19	ESE (102)	88	0	
12/11/2022 2:00	0.2	12	19	ESE (105)	100	0	
12/11/2022 3:00	-0.1	8	11	ESE (117)	100	0	
12/11/2022 4:00	-0.3	4	11	ESE (117)	100	0	
12/11/2022 5:00	-0.4	5	9	WSW (253)	100	0	
12/11/2022 6:00	-0.3	7	14	W (279)	100	0	
12/11/2022 7:00	-0.1	10	15	WSW (254)	100	0	0
12/11/2022 8:00	0.2	11	18	W (281)	100	0	
12/11/2022 9:00	0.6	13	19	WNW (301)	100	0.6	
12/11/2022 10:00	0.8	15	23	WNW (293)	100	1.2	
12/11/2022 11:00	1	14	22	W (281)	100	0	
12/11/2022 12:00	1.2	15	23	W (280)	100	0	
12/11/2022 13:00	1	16	27	WNW (298)	99	0	
12/11/2022 14:00	0.8	15	23	WNW (301)	98	0	
12/11/2022 15:00	1	14	25	W (274)	94	0	
12/11/2022 16:00	0.8	14	22	W (276)	92	0	
12/11/2022 17:00	0.8	12	21	WNW (298)	90	0	
12/11/2022 18:00	0.8	14	24	WNW (292)	90	0	
12/11/2022 19:00	0.6	11	19	NNW (327)	100	0	
12/11/2022 20:00	0	4	7	WNW (292)	100	0	
12/11/2022 21:00	-0.1	4	7	NNW (334)	100	0	
12/11/2022 22:00	-0.1	1	3	N (349)	100	0	
12/11/2022 23:00	-0.1	2	6	NW (304)	100	0	
12/12/2022 0:00	-0.1	2	5	NNE (15)	100	0	
12/12/2022 1:00	-0.3	2	6	WNW (298)	100	0	
12/12/2022 2:00	-0.4	3	7	WSW (256)	100	0	
12/12/2022 3:00	-0.4	4	7	WNW (296)	100	0	
12/12/2022 4:00	-0.5	4	7	NNW (329)	100	0	
12/12/2022 5:00	-0.6	5	11	NNE (31)	100	0	
12/12/2022 6:00	-0.8	5	15	NE (48)	100	0	
12/12/2022 7:00	-0.8	9	17	NE (46)	100	0	1.8
12/12/2022 8:00	-1.3	9	17	NE (52)	100	0	
12/12/2022 9:00	-1.6	11	17	NNE (22)	98	0	
12/12/2022 10:00	-1.4	11	19	NE (52)	96	0.2	
12/12/2022 11:00	-1.3	10	17	NE (45)	95	0	
12/12/2022 12:00	-1.4	9	18	NNE (21)	94	0	
12/12/2022 13:00	-1.2	7	15	ENE (77)	93	0	
12/12/2022 14:00	-1.2	7	14	NE (46)	92	0	
12/12/2022 15:00	-1.2	7	14	ENE (75)	91	0	
12/12/2022 16:00	-1.3	6	14	ENE (72)	90	0	
12/12/2022 17:00	-1.3	5	12	NNE (20)	85	0	
12/12/2022 18:00	-1.3	8	14	N (6)	84	0	
12/12/2022 19:00	-1.6	8	17	ENE (73)	82	0	
12/12/2022 20:00	-2.1	10	18	E (79)	92	0	
12/12/2022 21:00	-2.6	11	15	ENE (76)	94	0	
12/12/2022 22:00	-3	10	14	ENE (57)	94	0	
12/12/2022 23:00	-3.2	7	11	NE (56)	93	0	
12/13/2022 0:00	-3.4	5	10	ENE (70)	93	0	
12/13/2022 1:00	-3.2	7	18	ESE (118)	87	0	
12/13/2022 2:00	-3.4	11	18	SE (136)	88	0	
12/13/2022 3:00	-3.8	8	18	ENE (76)	88	0	
12/13/2022 4:00	-3.9	6	9	ENE (58)	89	0	
12/13/2022 5:00	-3.7	6	11	ENE (61)	85	0	
12/13/2022 6:00	-3.5	7	10	NE (54)	80	0	
12/13/2022 7:00	-3.5	7	10	ENE (66)	82	0	0.2
12/13/2022 8:00	-3	9	13	E (87)	80	0	
12/13/2022 9:00	-2.9	10	16	ESE (112)	79	0	
12/13/2022 10:00	-2.6	9	17	ENE (75)	77	0	
12/13/2022 11:00	-2.6	10	16	ENE (61)	78	0	
12/13/2022 12:00	-2.1	9	17	E (85)	76	0	
12/13/2022 13:00	-1.3	4	8	NE (53)	73	0	
12/13/2022 14:00	-1.2	3	9	NNE (15)	73	0	
12/13/2022 15:00	-1.1	4	8	NE (45)	73	0	
12/13/2022 16:00	-1.8	7	13	NE (41)	78	0	
12/13/2022 17:00	-2.7	8	13	NE (51)	80	0	
12/13/2022 18:00	-3.4	7	10	NE (48)	80	0	
12/13/2022 19:00	-3.8	7	10	ENE (70)	80	0	
12/13/2022 20:00	-4.2	9	14	ENE (62)	81	0	
12/13/2022 21:00	-4.5	13	16	ENE (73)	81	0	
12/13/2022 22:00	-4.4	14	20	ENE (67)	78	0	
12/13/2022 23:00	-4.5	11	16	ENE (69)	77	0	
12/14/2022 0:00	-5	9	15	ENE (73)	77	0	
12/14/2022 1:00	-5.3	5	11	ENE (73)	79	0	
12/14/2022 2:00	-5.2	10	14	ESE (103)	77	0	
12/14/2022 3:00	-4.7	15	25	E (83)	76	0	
12/14/2022 4:00	-3.8	20	29	ESE (102)	79	0	
12/14/2022 5:00	-3.5	20	27	E (88)	80	0	
12/14/2022 6:00	-3.1	17	23	ESE (111)	75	0	
12/14/2022 7:00	-2.8	18	28	ESE (120)	76	0	0
12/14/2022 8:00	-2.7	22	36	ESE (104)	80	0	
12/14/2022 9:00	-2.3	27	38	ESE (116)	80	0	
12/14/2022 10:00	-2.2	27	40	E (79)	78	0	
12/14/2022 11:00	-1.9	19	42	NNW (346)	73	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/14/2022 12:00	0.2	2	34	ESE (109)	66	10.6	
12/14/2022 13:00	0	23	32	ESE (110)	60	0	
12/14/2022 14:00	0.2	22	31	ENE (76)	59	0	
12/14/2022 15:00	0.4	20	29	E (85)	65	0	
12/14/2022 16:00	-0.3	15	28	E (85)	65	0	
12/14/2022 17:00	-1.3	16	21	E (97)	66	0	
12/14/2022 18:00	-1.4	20	31	ESE (113)	65	0	
12/14/2022 19:00	-1.8	24	36	ENE (78)	68	0	
12/14/2022 20:00	-2	24	33	E (84)	71	0	
12/14/2022 21:00	-1.9	25	38	E (92)	72	0	
12/14/2022 22:00	-1.1	29	45	ESE (107)	72	0	
12/14/2022 23:00	0.1	41	55	E (93)	64	0	
12/15/2022 0:00	-0.1	40	53	ESE (103)	64	0	
12/15/2022 1:00	-0.1	37	52	E (98)	64	0	
12/15/2022 2:00	0.2	37	53	E (93)	63	0	
12/15/2022 3:00	0.3	43	65	E (97)	70	0	
12/15/2022 4:00	0	47	61	ESE (104)	73	0	
12/15/2022 5:00	0.1	46	60	ESE (110)	79	0	
12/15/2022 6:00	0.1	45	64	SE (124)	86	1.2	
12/15/2022 7:00	0.1	36	52	ESE (119)	100	2	3.2
12/15/2022 8:00	0.4	33	52	ESE (112)	100	0.6	
12/15/2022 9:00	0.8	33	45	ESE (122)	100	1	
12/15/2022 10:00	1.4	32	44	ESE (103)	100	0.6	
12/15/2022 11:00	2.5	34	45	ESE (113)	100	0	
12/15/2022 12:00	3	32	48	SE (136)	100	0	
12/15/2022 13:00	3.4	28	38	SE (130)	100	0	
12/15/2022 14:00	3.9	26	36	SE (127)	100	0	
12/15/2022 15:00	4	22	35	SE (124)	100	0	
12/15/2022 16:00	4	18	23	SE (132)	100	0	
12/15/2022 17:00	3.9	13	22	SE (136)	100	0	
12/15/2022 18:00	3.8	13	18	ESE (107)	100	0	
12/15/2022 19:00	3.7	15	21	SE (125)	100	0	
12/15/2022 20:00	3.6	15	20	SE (126)	100	0.6	
12/15/2022 21:00	3.4	12	15	SE (138)	100	0.6	
12/15/2022 22:00	3.5	9	13	SSW (209)	100	0.6	
12/15/2022 23:00	2.2	16	37	SW (229)	100	0.8	
12/16/2022 0:00	1.9	6	10	WSW (242)	100	0	
12/16/2022 1:00	1.8	5	9	S (179)	97	0	
12/16/2022 2:00	1.4	6	10	SW (221)	96	0	
12/16/2022 3:00	1.5	7	12	SSW (213)	90	0	
12/16/2022 4:00	1.2	10	19	SW (219)	94	0	
12/16/2022 5:00	1.1	9	20	S (190)	93	0	
12/16/2022 6:00	0.8	7	11	SSW (206)	96	0	
12/16/2022 7:00	0.6	7	13	S (180)	96	0	4.8
12/16/2022 8:00	0.5	8	12	S (182)	100	0	
12/16/2022 9:00	0.7	9	16	SSW (196)	100	0	
12/16/2022 10:00	0.8	12	21	WSW (251)	89	0	
12/16/2022 11:00	0.9	12	19	WSW (240)	89	0	
12/16/2022 12:00	0.7	12	21	SW (214)	91	0	
12/16/2022 13:00	0.8	10	17	S (191)	90	0	
12/16/2022 14:00	0.7	13	24	SW (222)	89	0	
12/16/2022 15:00	0.6	11	18	SW (218)	89	0	
12/16/2022 16:00	0.3	11	19	S (177)	86	0	
12/16/2022 17:00	0.2	11	21	SSW (203)	86	0	
12/16/2022 18:00	-0.4	11	21	S (172)	96	0	
12/16/2022 19:00	-0.6	8	14	SSW (206)	95	0	
12/16/2022 20:00	-0.3	9	15	S (186)	93	0	
12/16/2022 21:00	-0.2	11	21	SW (222)	100	0	
12/16/2022 22:00	-0.4	12	21	SW (223)	100	0	
12/16/2022 23:00	-0.5	14	23	SW (229)	100	0	
12/17/2022 0:00	-0.5	16	31	WSW (238)	100	0	
12/17/2022 1:00	-0.7	15	27	WSW (240)	88	0	
12/17/2022 2:00	-0.9	14	20	SW (222)	83	0	
12/17/2022 3:00	-1.2	15	27	SW (228)	80	0	
12/17/2022 4:00	-1.5	10	17	SSW (206)	84	0	
12/17/2022 5:00	-1.7	14	23	SSW (205)	83	0	
12/17/2022 6:00	-1.9	15	27	SW (220)	79	0	
12/17/2022 7:00	-2.1	17	24	WSW (238)	84	0	0
12/17/2022 8:00	-2.5	16	26	SW (224)	96	0	
12/17/2022 9:00	-2.6	16	29	SW (230)	99	0	
12/17/2022 10:00	-2.2	18	25	SW (225)	91	0	
12/17/2022 11:00	-1.8	22	34	SW (218)	78	0	
12/17/2022 12:00	-1.6	19	29	WSW (238)	76	0	
12/17/2022 13:00	-1.4	19	30	SW (222)	75	0	
12/17/2022 14:00	-1.7	18	29	SW (223)	84	0	
12/17/2022 15:00	-1.7	16	24	WSW (241)	85	0	
12/17/2022 16:00	-1.6	12	20	SW (216)	77	0	
12/17/2022 17:00	-2	9	14	S (185)	83	0	
12/17/2022 18:00	-2	14	22	WSW (241)	84	0	
12/17/2022 19:00	-2.3	14	25	SW (219)	87	0	
12/17/2022 20:00	-2.6	16	24	WSW (240)	100	0	
12/17/2022 21:00	-2.8	17	25	SW (230)	100	0	
12/17/2022 22:00	-3	16	22	SW (225)	97	0	
12/17/2022 23:00	-3.1	16	23	SW (218)	91	0	
12/18/2022 0:00	-3.2	18	25	SW (232)	79	0	
12/18/2022 1:00	-3.3	17	26	SW (236)	80	0	
12/18/2022 2:00	-3.2	21	33	SW (225)	80	0	
12/18/2022 3:00	-3.3	21	30	WSW (247)	81	0	
12/18/2022 4:00	-3.5	20	29	WSW (251)	86	0	
12/18/2022 5:00	-3.5	20	28	SW (228)	86	0	
12/18/2022 6:00	-3.3	20	27	SW (227)	83	0	
12/18/2022 7:00	-3.3	22	31	SW (221)	86	0	0
12/18/2022 8:00	-3.3	22	33	SW (232)	86	0	
12/18/2022 9:00	-3.2	24	34	SW (236)	84	0	
12/18/2022 10:00	-2.9	26	36	SW (226)	84	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/18/2022 11:00	-2.4	24	35	WSW (245)	82	0	
12/18/2022 12:00	-1.8	24	39	W (259)	82	0	
12/18/2022 13:00	-1.2	28	42	W (259)	79	0	
12/18/2022 14:00	-1.2	27	39	WNW (294)	78	0	
12/18/2022 15:00	-1.3	26	43	W (261)	76	0	
12/18/2022 16:00	-1.5	25	37	W (270)	74	0	
12/18/2022 17:00	-1.9	25	41	WSW (239)	74	0	
12/18/2022 18:00	-2.1	20	31	SW (227)	73	0	
12/18/2022 19:00	-2.5	21	30	SW (224)	75	0	
12/18/2022 20:00	-2.8	24	32	WSW (241)	77	0	
12/18/2022 21:00	-3.1	23	34	W (259)	80	0	
12/18/2022 22:00	-3.5	20	32	SW (223)	86	0	
12/18/2022 23:00	-3.6	18	30	WSW (242)	87	0	
12/19/2022 0:00	-3.9	19	27	SW (230)	94	0	
12/19/2022 1:00	-4.2	19	26	WSW (237)	100	0	
12/19/2022 2:00	-4.1	17	24	WSW (251)	100	0	
12/19/2022 3:00	-3.9	16	24	WSW (238)	100	0	
12/19/2022 4:00	-3.6	16	27	W (270)	98	0	
12/19/2022 5:00	-3.7	19	30	WNW (282)	85	0	
12/19/2022 6:00	-4	17	27	W (271)	80	0	
12/19/2022 7:00	-4.1	16	28	W (268)	81	0	0
12/19/2022 8:00	-4.3	19	27	W (266)	81	0	
12/19/2022 9:00	-4.3	19	33	W (268)	79	0	
12/19/2022 10:00	-3.7	22	32	W (259)	78	0	
12/19/2022 11:00	-3.4	20	33	W (269)	76	0	
12/19/2022 12:00	-3.2	16	30	W (264)	76	0	
12/19/2022 13:00	-3	17	26	NW (313)	75	0	
12/19/2022 14:00	-2.9	16	25	W (279)	72	0	
12/19/2022 15:00	-3	14	22	WNW (286)	74	0	
12/19/2022 16:00	-3	11	20	W (267)	75	0	
12/19/2022 17:00	-3	11	17	W (270)	75	0	
12/19/2022 18:00	-3.1	10	15	WSW (258)	76	0	
12/19/2022 19:00	-3.3	11	20	SW (235)	77	0	
12/19/2022 20:00	-3.6	14	23	W (263)	76	0	
12/19/2022 21:00	-3.7	13	19	WSW (246)	75	0	
12/19/2022 22:00	-3.8	12	18	WSW (241)	76	0	
12/19/2022 23:00	-4	12	18	SW (218)	76	0	
12/20/2022 0:00	-4.1	10	16	SW (230)	77	0	
12/20/2022 1:00	-4.1	9	13	WNW (290)	76	0	
12/20/2022 2:00	-4.1	8	13	SW (225)	78	0	
12/20/2022 3:00	-4.3	9	14	SW (228)	77	0	
12/20/2022 4:00	-4.5	9	13	SW (228)	78	0	
12/20/2022 5:00	-4.6	7	13	SW (220)	78	0	
12/20/2022 6:00	-4.6	6	12	S (183)	78	0	
12/20/2022 7:00	-4.7	12	22	SSE (163)	80	0	0
12/20/2022 8:00	-4.3	12	19	SSE (156)	80	0	
12/20/2022 9:00	-3.6	12	20	S (176)	79	0	
12/20/2022 10:00	-2.6	12	20	S (182)	76	0	
12/20/2022 11:00	-2.2	14	27	SSW (208)	77	0	
12/20/2022 12:00	-1.8	14	24	SSW (194)	78	0	
12/20/2022 13:00	-1.3	15	26	SSW (210)	77	0	
12/20/2022 14:00	-1.2	15	24	SSW (194)	77	0	
12/20/2022 15:00	-1.2	12	20	SSW (208)	77	0	
12/20/2022 16:00	-1.3	13	20	SSW (210)	77	0	
12/20/2022 17:00	-1.5	11	17	SW (222)	78	0	
12/20/2022 18:00	-1.7	10	17	SSW (209)	82	0	
12/20/2022 19:00	-2.4	7	12	SSW (206)	83	0	
12/20/2022 20:00	-3.1	8	14	S (171)	86	0	
12/20/2022 21:00	-3.3	9	16	SSW (208)	86	0	
12/20/2022 22:00	-3.7	11	16	SW (217)	86	0	
12/20/2022 23:00	-4	9	14	SW (236)	88	0	
12/21/2022 0:00	-4.6	8	11	WSW (241)	93	0	
12/21/2022 1:00	-5.1	7	9	SW (219)	100	0	
12/21/2022 2:00	-4.9	7	11	SW (235)	100	0	
12/21/2022 3:00	-5.4	7	11	SW (229)	100	0	
12/21/2022 4:00	-4.6	9	12	SW (233)	100	0	
12/21/2022 5:00	-4.2	9	13	W (273)	98	0	
12/21/2022 6:00	-4.9	8	13	WSW (250)	94	0	
12/21/2022 7:00	-5.9	7	11	WSW (240)	95	0	0
12/21/2022 8:00	-6.5	7	10	W (261)	96	0	
12/21/2022 9:00	-5.1	8	17	NW (304)	94	0	
12/21/2022 10:00	-4.1	12	18	WNW (298)	74	0	
12/21/2022 11:00	-3.7	9	15	WNW (282)	67	0	
12/21/2022 12:00	-3	4	11	NE (48)	65	0	
12/21/2022 13:00	-2.4	2	6	WNW (286)	61	0	
12/21/2022 14:00	-2.4	4	10	NNW (333)	61	0	
12/21/2022 15:00	-2.8	5	10	NNW (345)	65	0	
12/21/2022 16:00	-3.1	5	10	NE (41)	70	0	
12/21/2022 17:00	-3.6	6	13	NNE (33)	77	0	
12/21/2022 18:00	-3.9	9	15	NE (53)	78	0	
12/21/2022 19:00	-4.1	12	18	ENE (73)	79	0	
12/21/2022 20:00	-4.3	10	13	ENE (73)	78	0	
12/21/2022 21:00	-4	13	18	ESE (105)	78	0	
12/21/2022 22:00	-3.8	16	20	ESE (110)	77	0	
12/21/2022 23:00	-3.5	18	24	ESE (103)	76	0	
12/22/2022 0:00	-3	22	29	ESE (115)	74	0	
12/22/2022 1:00	-2.7	23	30	ESE (106)	77	0	
12/22/2022 2:00	-2	23	29	ESE (115)	77	0	
12/22/2022 3:00	-1.5	22	29	E (97)	80	0	
12/22/2022 4:00	-1.1	23	32	ESE (111)	80	0	
12/22/2022 5:00	-0.9	26	33	ESE (107)	79	0	
12/22/2022 6:00	-1	26	34	ESE (106)	79	0	
12/22/2022 7:00	-0.9	23	30	ESE (108)	78	0	0
12/22/2022 8:00	-0.2	24	33	ESE (120)	77	0	
12/22/2022 9:00	0.4	20	29	ESE (118)	79	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/22/2022 10:00	1.7	21	29	SE (139)	77	0	
12/22/2022 11:00	3.5	23	34	SE (130)	71	0	
12/22/2022 12:00	4	25	33	SSE (148)	68	0	
12/22/2022 13:00	4.4	24	33	SE (140)	66	0	
12/22/2022 14:00	4.1	23	30	SE (144)	71	0	
12/22/2022 15:00	4	22	32	SE (128)	84	0	
12/22/2022 16:00	3.7	25	36	SE (129)	94	0	
12/22/2022 17:00	3.3	25	34	SE (134)	98	0	
12/22/2022 18:00	3.3	27	37	ESE (115)	96	0	
12/22/2022 19:00	3.2	27	38	ESE (123)	98	0	
12/22/2022 20:00	3.3	29	40	SE (128)	97	0	
12/22/2022 21:00	3.1	29	39	SE (140)	100	0	
12/22/2022 22:00	2.9	25	37	SE (130)	100	1.6	
12/22/2022 23:00	2.7	23	35	ESE (123)	100	0.8	
12/23/2022 0:00	2.5	19	29	ESE (120)	100	0.4	
12/23/2022 1:00	2.5	14	21	ESE (120)	100	0.8	
12/23/2022 2:00	2.5	9	15	W (264)	100	1.6	
12/23/2022 3:00	0.3	25	39	NW (310)	100	0	
12/23/2022 4:00	-1.6	28	43	WNW (297)	100	0	
12/23/2022 5:00	-4.9	29	47	W (279)	100	0	
12/23/2022 6:00	-7.9	33	53	WSW (254)	99	0	
12/23/2022 7:00	-10.1	39	55	WSW (258)	92	0	5.2
12/23/2022 8:00	-11.2	39	61	SW (236)	91	0	
12/23/2022 9:00	-12	39	59	SW (233)	90	0	
12/23/2022 10:00	-12.6	40	57	WSW (250)	87	0	
12/23/2022 11:00	-13	39	60	WSW (244)	87	0	
12/23/2022 12:00	-13.2	39	60	WSW (241)	86	0	
12/23/2022 13:00	-14	41	59	SSW (208)	86	0	
12/23/2022 14:00	-15.1	41	61	SW (236)	85	0	
12/23/2022 15:00	-15	43	58	SW (235)	85	0	
12/23/2022 16:00	-14.7	38	56	SW (235)	86	0	
12/23/2022 17:00	-14.8	36	52	WSW (243)	84	0	
12/23/2022 18:00	-14.8	36	51	WSW (239)	84	0	
12/23/2022 19:00	-14.5	40	59	WSW (250)	83	0	
12/23/2022 20:00	-15.1	42	55	WSW (246)	85	0	
12/23/2022 21:00	-15.5	44	59	SW (231)	85	0	
12/23/2022 22:00	-16	46	59	WSW (242)	84	0	
12/23/2022 23:00	-16.1	48	64	SW (220)	83	0	
12/24/2022 0:00	-16.2	43	62	SW (215)	81	0	
12/24/2022 1:00	-16.2	42	56	SW (216)	82	0	
12/24/2022 2:00	-15.9	42	64	SW (215)	80	0	
12/24/2022 3:00	-15.4	41	54	SW (219)	78	0	
12/24/2022 4:00	-14.9	39	58	SW (232)	77	0	
12/24/2022 5:00	-14.9	38	56	WSW (238)	76	0	
12/24/2022 6:00	-15	38	59	WSW (242)	75	0	
12/24/2022 7:00	-15.1	39	54	SW (228)	76	0	0
12/24/2022 8:00	-15.1	39	55	SW (229)	77	0	
12/24/2022 9:00	-15	39	57	SW (218)	76	0	
12/24/2022 10:00	-14.4	37	52	SW (235)	75	0	
12/24/2022 11:00	-13.7	42	59	SW (228)	74	0	
12/24/2022 12:00	-12.8	45	60	SW (225)	73	0	
12/24/2022 13:00	-12.2	43	59	WSW (251)	74	0	
12/24/2022 14:00	-12.4	41	62	WSW (239)	77	0	
12/24/2022 15:00	-12.6	45	65	SSW (209)	77	0	
12/24/2022 16:00	-12.8	41	59	SW (228)	80	0	
12/24/2022 17:00	-12.6	38	53	SW (224)	81	0	
12/24/2022 18:00	-12.2	37	56	SW (215)	82	0	
12/24/2022 19:00	-11.8	34	49	SW (215)	83	0	
12/24/2022 20:00	-11.3	35	48	WSW (238)	82	0	
12/24/2022 21:00	-11	34	46	WSW (240)	81	0	
12/24/2022 22:00	-10.6	33	42	SW (234)	81	0	
12/24/2022 23:00	-10.2	30	43	WSW (245)	78	0	
12/25/2022 0:00	-10	30	46	SW (232)	74	0	
12/25/2022 1:00	-10	27	36	SW (224)	74	0	
12/25/2022 2:00	-9.7	28	41	WSW (245)	72	0	
12/25/2022 3:00	-9.5	31	47	WSW (255)	70	0	
12/25/2022 4:00	-9.4	32	44	WSW (255)	70	0	
12/25/2022 5:00	-9.5	30	44	WSW (248)	69	0	
12/25/2022 6:00	-9.6	26	41	WSW (258)	69	0	
12/25/2022 7:00	-9.3	28	41	WSW (239)	69	0	0
12/25/2022 8:00	-9.2	26	37	W (266)	69	0	
12/25/2022 9:00	-8.9	28	41	WSW (246)	70	0	
12/25/2022 10:00	-8.5	27	40	SW (234)	68	0	
12/25/2022 11:00	-8.2	27	40	WSW (250)	68	0	
12/25/2022 12:00	-8.1	30	44	SW (224)	67	0	
12/25/2022 13:00	-8.1	28	42	SW (224)	74	0	
12/25/2022 14:00	-8.6	25	33	SW (234)	77	0	
12/25/2022 15:00	-8.9	26	35	SW (235)	80	0	
12/25/2022 16:00	-9.1	26	36	SW (222)	80	0	
12/25/2022 17:00	-9.2	24	35	WSW (246)	82	0	
12/25/2022 18:00	-9.5	19	29	SW (230)	85	0	
12/25/2022 19:00	-9.2	21	30	WSW (243)	83	0	
12/25/2022 20:00	-9.4	26	35	WSW (248)	84	0	
12/25/2022 21:00	-9.5	26	34	WSW (242)	82	0	
12/25/2022 22:00	-9.6	22	32	SW (236)	83	0	
12/25/2022 23:00	-9.8	21	30	SW (229)	81	0	
12/26/2022 0:00	-10.4	18	27	SW (220)	82	0	
12/26/2022 1:00	-10.8	19	31	SSW (212)	82	0	
12/26/2022 2:00	-11	18	29	SW (223)	81	0	
12/26/2022 3:00	-10.8	16	28	SSW (210)	80	0	
12/26/2022 4:00	-10.6	15	25	SW (228)	82	0	
12/26/2022 5:00	-10.2	12	21	SW (216)	83	0	
12/26/2022 6:00	-10	11	20	SW (225)	84	0	
12/26/2022 7:00	-9.8	11	18	SW (221)	85	0	0
12/26/2022 8:00	-9.5	13	20	SW (230)	85	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/26/2022 9:00	-9	13	19	SW (224)	84	0	
12/26/2022 10:00	-8.4	14	22	S (186)	81	0	
12/26/2022 11:00	-8.1	16	25	SW (232)	82	0	
12/26/2022 12:00	-7.7	15	22	SSW (205)	81	0	
12/26/2022 13:00	-7.4	15	23	SW (226)	79	0	
12/26/2022 14:00	-7.1	14	23	SW (224)	79	0	
12/26/2022 15:00	-7	13	21	SW (228)	81	0	
12/26/2022 16:00	-7.1	11	16	SSW (202)	83	0	
12/26/2022 17:00	-7.1	11	17	SSW (204)	83	0	
12/26/2022 18:00	-7.1	11	18	SW (219)	82	0	
12/26/2022 19:00	-7	11	16	SW (231)	82	0	
12/26/2022 20:00	-6.8	9	14	SW (230)	82	0	
12/26/2022 21:00	-6.8	9	19	WSW (243)	82	0	
12/26/2022 22:00	-6.8	12	19	SW (225)	76	0	
12/26/2022 23:00	-7.4	10	15	SSW (205)	82	0	
12/27/2022 0:00	-8.4	8	13	SW (232)	82	0	
12/27/2022 1:00	-8.1	9	14	WSW (237)	82	0	
12/27/2022 2:00	-8.2	10	16	SW (230)	83	0	
12/27/2022 3:00	-9.4	10	14	SW (236)	83	0	
12/27/2022 4:00	-8.8	12	17	SW (232)	83	0	
12/27/2022 5:00	-8	11	16	SW (236)	80	0	
12/27/2022 6:00	-7.9	9	15	SW (225)	79	0	
12/27/2022 7:00	-8.2	10	16	SSW (194)	79	0	0
12/27/2022 8:00	-8.1	12	19	SSW (198)	80	0	
12/27/2022 9:00	-7.3	12	21	SSW (213)	83	0	
12/27/2022 10:00	-6.2	14	23	SSW (195)	83	0	
12/27/2022 11:00	-4.8	14	22	SW (218)	79	0	
12/27/2022 12:00	-4.4	13	21	SSW (192)	78	0	
12/27/2022 13:00	-4.1	15	25	S (188)	76	0	
12/27/2022 14:00	-3.6	14	23	S (173)	74	0	
12/27/2022 15:00	-3.6	16	28	S (182)	74	0	
12/27/2022 16:00	-4.1	16	28	S (170)	77	0	
12/27/2022 17:00	-4.6	17	35	SW (228)	80	0	
12/27/2022 18:00	-4.8	18	31	SSW (196)	83	0	
12/27/2022 19:00	-4.9	18	30	S (190)	83	0	
12/27/2022 20:00	-4.8	19	37	SSE (156)	84	0	
12/27/2022 21:00	-4.5	21	34	SSW (204)	82	0	
12/27/2022 22:00	-4	19	33	SSW (195)	81	0	
12/27/2022 23:00	-3.4	20	33	S (187)	81	0	
12/28/2022 0:00	-2.7	19	32	SSE (162)	81	0	
12/28/2022 1:00	-1.9	22	37	S (175)	83	0	
12/28/2022 2:00	-1.3	23	41	SE (144)	82	0	
12/28/2022 3:00	-1	23	38	SSW (196)	82	0	
12/28/2022 4:00	-1	22	37	S (178)	82	0	
12/28/2022 5:00	-1	20	31	S (185)	83	0	
12/28/2022 6:00	-0.9	17	32	SSW (193)	82	0	
12/28/2022 7:00	-1	17	31	S (185)	84	0	0
12/28/2022 8:00	-1.2	18	31	SSW (192)	83	0	
12/28/2022 9:00	-0.5	21	34	SW (227)	81	0	
12/28/2022 10:00	0.3	20	37	SSW (202)	77	0	
12/28/2022 11:00	0.8	20	36	S (176)	73	0	
12/28/2022 12:00	1.4	21	35	S (181)	72	0	
12/28/2022 13:00	1.6	23	39	SSE (165)	72	0	
12/28/2022 14:00	2	20	34	SSW (196)	72	0	
12/28/2022 15:00	2.2	22	34	SSW (199)	72	0	
12/28/2022 16:00	2.4	23	34	SSE (157)	71	0	
12/28/2022 17:00	2.6	23	33	S (181)	70	0	
12/28/2022 18:00	2.7	22	31	SSE (163)	71	0	
12/28/2022 19:00	2.3	21	30	SSE (162)	73	0	
12/28/2022 20:00	3	23	35	SSE (162)	70	0	
12/28/2022 21:00	3.4	25	37	S (169)	66	0	
12/28/2022 22:00	3.3	25	35	S (182)	67	0	
12/28/2022 23:00	3.6	27	39	S (175)	65	0	
12/29/2022 0:00	4	26	37	S (173)	62	0	
12/29/2022 1:00	4.4	25	35	SSE (162)	60	0	
12/29/2022 2:00	4.1	21	34	S (172)	61	0	
12/29/2022 3:00	4.3	22	32	S (178)	61	0	
12/29/2022 4:00	4.4	24	33	S (173)	61	0	
12/29/2022 5:00	4.4	23	35	SSE (168)	63	0	
12/29/2022 6:00	4.5	19	32	S (176)	66	0	
12/29/2022 7:00	4.3	20	30	S (173)	69	0	0
12/29/2022 8:00	4.2	20	30	SSE (159)	70	0	
12/29/2022 9:00	4.8	19	29	SSE (161)	70	0	
12/29/2022 10:00	5.7	20	34	S (189)	72	0	
12/29/2022 11:00	6.2	18	32	S (176)	75	0	
12/29/2022 12:00	6.6	18	31	SSW (208)	77	0	
12/29/2022 13:00	6.9	18	29	SSE (154)	78	0	
12/29/2022 14:00	7	17	29	S (184)	78	0	
12/29/2022 15:00	6.8	15	26	S (178)	80	0	
12/29/2022 16:00	6.7	17	24	S (175)	81	0	
12/29/2022 17:00	7.1	18	29	S (173)	81	0	
12/29/2022 18:00	7.7	18	28	SSE (163)	80	0	
12/29/2022 19:00	8.3	17	27	S (186)	80	0	
12/29/2022 20:00	8.8	18	30	SSW (209)	79	0	
12/29/2022 21:00	9.2	15	25	SSW (194)	78	0	
12/29/2022 22:00	9.7	15	25	SSW (209)	78	0	
12/29/2022 23:00	10.2	16	27	S (191)	79	0	
12/30/2022 0:00	10.5	16	26	SW (224)	80	0	
12/30/2022 1:00	10.4	15	24	S (174)	82	0	
12/30/2022 2:00	10.8	17	31	SSW (205)	82	0	
12/30/2022 3:00	11	19	32	ESE (110)	83	0	
12/30/2022 4:00	11	18	31	SSE (160)	83	0	
12/30/2022 5:00	11.1	19	31	SSW (210)	82	0	
12/30/2022 6:00	11.3	18	29	SSW (195)	80	0	
12/30/2022 7:00	10.8	17	29	SSE (152)	78	0	0

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/30/2022 8:00	10.6	16	27	SSW (198)	79	0	
12/30/2022 9:00	10.8	16	29	SSW (206)	77	0	
12/30/2022 10:00	10.7	15	27	S (180)	82	0	
12/30/2022 11:00	10.7	17	31	SSW (196)	83	0	
12/30/2022 12:00	11.7	18	30	S (187)	80	0	
12/30/2022 13:00	11.6	16	27	S (178)	79	0	
12/30/2022 14:00	11.4	15	25	SSW (205)	76	0	
12/30/2022 15:00	11.4	15	27	S (188)	77	0	
12/30/2022 16:00	10.8	17	25	SW (216)	100	0.2	
12/30/2022 17:00	10.1	15	26	SSW (209)	100	0.8	
12/30/2022 18:00	10.1	13	22	SSW (202)	100	0.6	
12/30/2022 19:00	9.9	10	22	SW (214)	100	0.8	
12/30/2022 20:00	9.9	12	21	WSW (237)	100	1.2	
12/30/2022 21:00	9.8	11	18	SW (216)	100	1.6	
12/30/2022 22:00	9.7	10	19	SW (229)	100	1	
12/30/2022 23:00	9.2	5	11	W (268)	100	1.2	
12/31/2022 0:00	8.9	4	10	NNW (331)	100	2	
12/31/2022 1:00	8.3	6	10	ENE (63)	100	2	
12/31/2022 2:00	7.6	13	17	E (96)	100	1.6	
12/31/2022 3:00	7.7	11	16	ESE (123)	100	2.2	
12/31/2022 4:00	8.7	12	18	SE (133)	100	1.2	
12/31/2022 5:00	9	12	19	NNW (327)	100	1	
12/31/2022 6:00	6.4	6	13	N (5)	100	1.2	
12/31/2022 7:00	5.7	6	14	NNW (337)	100	2.6	21.2
12/31/2022 8:00	5.4	7	14	NW (320)	100	0.8	
12/31/2022 9:00	5.4	6	11	N (11)	100	0.6	
12/31/2022 10:00	6	6	11	NNE (27)	100	0.2	
12/31/2022 11:00	6.5	5	12	NW (320)	100	0	
12/31/2022 12:00	6.1	14	25	NW (309)	100	0.4	
12/31/2022 13:00	4.6	20	27	WNW (287)	100	0.2	
12/31/2022 14:00	4.2	18	25	NW (311)	100	0	
12/31/2022 15:00	4.1	17	25	NW (312)	100	0	
12/31/2022 16:00	3.9	14	22	NW (318)	100	0	
12/31/2022 17:00	3.7	14	21	NW (326)	100	0	
12/31/2022 18:00	3.4	8	16	W (275)	100	0	
12/31/2022 19:00	3.5	10	15	WNW (301)	100	0	
12/31/2022 20:00	3.4	11	18	WSW (258)	100	0	
12/31/2022 21:00	3.2	9	14	W (274)	100	0	
12/31/2022 22:00	3	9	15	W (279)	100	0	
12/31/2022 23:00	3	8	12	WSW (256)	100	0	

ATTACHMENT C

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

Ontario Traffic, Inc.
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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

Ontario Traffic, Inc.
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Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

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Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

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ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2