NEW GOLD RAINY RIVER MINE
APPENDIX F
SPECIES AT RISK REPORT

28 March 2025

NEW GOLD INC.

Rainy River Mine
P.O. Box 5
Emo, Ontario
P0W 1E0

Dear Mr. Baird

Reference: 2024 Species at Risk Monitoring

Ecometrix is pleased to provide New Gold Inc. (New Gold) with the New Gold Rainy River Mine Species at Risk Monitoring Report 2024 to fulfill a portion of the requirements for the 2024 Monitoring contract with the Rainy River Mine (RRM). Ecometrix has signed a letter of intent with the Naotkamegwanning First Nation (NFN) to help build their capacity in monitoring based contracts at the RRM. Aspen Biological and IEC were subcontracted to perform some aspects of the 2024 Species at Risk Monitoring program and reporting to fulfill requirements of the 2015 Environmental Assessment and Condition 7.2(a) of New Gold's permit under the Endangered Species Act (Permit FF-C-001-14). The technical aspects of the study and the report were then reviewed by Joe Tetreault, Senior Ecologist with Ecometrix.

We trust that this report meets your requirements at this time. If you require any further information, please do not hesitate to contact Joe Tetreault at 905-452-4676.

Yours truly,

Ecometrix

Joe Tetreault, B.Sc.

Director of Environmental Monitoring and Technology, Senior Ecologist

6800 Campobello Road, Mississauga, Ontario, Canada L5N 2L8
Tel: (905) 794-2325 Fax: (905) 794-2338 Toll-Free: 1-800-361-2325
www.ecometrix.ca

NEW GOLD RAINY RIVER MINE
SPECIES AT RISK
MONITORING REPORT
2024

Per Condition 7.2 (a) of Permit FF-C-001-14 under the Endangered Species Act (ESA)

March 28, 2025

Prepared for:

Joe Tetreault
Ecometrix Inc.
2 Queen Street East
Cambridge, ON
N3C 2A6

Prepared by:

Lindsay Spenceley
Aspen Biological Ltd.
www.aspenbiological.com

EXECUTIVE SUMMARY

New Gold Rainy River Mine (RRM) completed required operational Species at Risk (SAR) monitoring in 2024. This SAR annual monitoring report summarizes the methods and results of monitoring efforts as per Condition 7.0 of the *Endangered Species Act* (ESA) Overall Benefit permit FF-C-001-14.

New Gold completed Phase 1 Eastern-Whip-poor-will (*Antrostomus vociferus*) monitoring of the mine site and peripheral area in 2024 as per Condition 6.1 a) and 6.2 (a)-(g), following the schedule outlined in Appendix G of *Endangered Species Act* Overall Benefit Permit FF-C-001-14. Three rounds of Eastern Whip-poor-will surveys were completed following MECP guidelines at 50 stations within the Phase 1 monitoring area during May 18-20 and June 16-20, 2024. Sound monitoring of two receptor sites north and south of the mine was performed to determine if the sound threshold of 50 dBa was reached per condition 4.2(b).

Overall, 57 Eastern Whip-poor-will detections were recorded during all three rounds of surveys within the Phase 1 monitoring. Of these, 20 individuals were estimated, with 19 being territorial males during the breeding season. There were some fluctuations in relative abundance during each round of surveys, and also between survey years, but these results are similar to previous monitoring years (2015-2022).

There were seven post-validation exceedances of 50 dBA at the North station and none at the South station during the 2024 campaign. Mine operations were not audible in the audio files in the hours that exceeded 50 dBA at the North station.

Bat acoustic monitoring, and Barn Swallow (*Hirundo rustica*) and Bald Eagle (*Haliaeetus leucocephalus*) nest monitoring was conducted following requirements of provincial Environmental Assessment notice of approval Condition 5 detailed in New Gold's Follow-up Monitoring Plan. Follow Up Monitoring Plan Condition 13.7.2 and 13.7.3 respectively.

Acoustic bat monitoring was undertaken at five pre-determined locations with autonomous recording units (ARUs) throughout the mine and mine periphery consistent with methodology carried out in previous years by Wood (2015-2018) and Northern Bioscience (2020). Recorders were deployed from May 18 to June 30, 2024, with the exception of the recorder at D21, which had a recording error. An ARU was redeployed at this location from July 19-August 31, the same number of deployment days as the other monitoring stations and within the maternity roost period of May 1-August 31.

Five of the six previously detected bat species were detected in 2024, except for Northern Myotis (*Myotis septentrionalis*). Little Brown Myotis (*Myotis lucifugus*) declined from 34.9 total passes/night in 2015 to 0.70 total passes/night in 2024. Similarly, unidentified *Myotis* species declined from 17.11 total passes/night in 2015 to 0.47 total passes/night in 2024. Tri-colored Bat (*Perimyotis subflavus*), another species that hibernates in Northern Ontario was detected at all monitoring stations in 2024, where it had not been recorded in previous monitoring years, but may have been previously overlooked. Despite continent-wide population declines, detections of Silver-haired Bat (*Lasionycteris noctivagans*) and Hoary Bat (*Lasiurus cinereus*) were greater in 2024 than in previous years. Eastern Red Bat (*Lasiurus borealis*) detections were greater than all years except 2015.

It is difficult to determine the proximate cause of changes of bat abundance at New Gold RRM, but the precipitous decline in *Myotis* species is consistent with population trends in Ontario due to White Nose

Syndrome (WNS) which is caused by the fungus *Pseudogymnoascus destructans*. Increases in detections of the migratory bat species in 2024 may be due to local population increases or increases in bat activity near the ARUs due to improved foraging conditions.

No nesting activity or evidence of breeding was observed at any of the Barn Swallow nesting structures. One Bald Eagle nest near Jones Rd. was inactive and the other at Blackhawk with two nestlings did not successfully fledge.

Incidental Species at Risk observations included American White Pelican, Bank Swallow, Barn Swallow, Bobolink, Eastern Wood-pewee, Peregrine Falcon, Wood Thrush, Snapping Turtle and Black Ash.

One American White Pelican was found deceased within the mine property in 2024.

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1.0 INTRODUCTION

Aspen Biological Ltd. (Aspen) was retained by Ecometrix Inc. to conduct Species at Risk (SAR) monitoring at the New Gold Rainy River Mine (New Gold RRM) in 2024 in partial fulfillment of requirements of *Endangered Species Act* (ESA) Overall Benefit permit FF-C-001-14 and Follow Up Monitoring Plan Condition 13.7.3.

This includes surveys and monitoring for bats, Eastern Whip-poor-will, Bald Eagle, Barn Swallow, as well as incidental SAR observations and annual SAR reporting for mortality events, awareness training and equipment operating hours associated with the operational phase of New Gold RRM.

The mine is located approximately 65 km northwest of Fort Frances and 100 km south-southeast of Kenora in Chapple Township in northwestern Ontario (Figure 1). The mine is situated on the traditional lands of Treaty #3 Anishinaabe communities. Construction of the mine began in 2015 and has been in operation since 2017.

1.1 Species at Risk (SAR) Bats

There are now six SAR bat species whose ranges overlap with the New Gold RRM that receive species and general habitat protection under the *Endangered Species Act*, 2007 (ESA). Three species of migratory bats (i.e., Eastern Red Bat, Hoary Bat, Silver-haired Bat) have recently been assessed as Endangered by COSEWIC (2023) and officially listed as Endangered provincially in January 2025. The major threats to these species include risk of mortality during migration at wind energy facilities, decline in insect abundance, loss of forested foraging and roosting habitat and pollution (COSEWIC 2023). Little Brown Myotis, Northern myotis and Tri-colored bat have been listed as provincially endangered since 2013. The main threats to these species are mainly due to dramatic declines associated with WNS (COSEWIC 2013).

The remaining species, the Big Brown Bat (*Eptesicus fuscus*), is not at risk but its range occupies the mine project area.

Little Brown Myotis establishes maternity roosts in anthropogenic structures or within tree cavities and under loose or exfoliating bark, or rock crevices in wooded areas located near water. Northern Myotis also utilizes trees for maternity roosts and prefers tree crevices, hollows and under the bark of live and dead trees. Tri-colored bats can also roost in decaying trees and in leaf and arboreal lichen clusters (Caceres and Barclay, 2000 COSEWIC 2013, ECCC 2018). Eastern Red, and Hoary Bats roost by hanging from tree branches, and Silver-haired Bats roost in tree cavities and under exfoliating bark (COSEWIC 2023).

1.1.1 Regulatory Context

As part of the federal Environmental Assessment (EA) approval process, New Gold is required to complete operational phase monitoring in accordance with Notice of Approval Condition 5 as indicated in the Follow Up Monitoring Plan (FMP) (Amec Foster Wheeler 2016). The purpose of the FMP is to

verify the accuracy of the predications made in the EA regarding the mine's impacts on wildlife and wildlife habitat, and to monitor the effectiveness of rehabilitation efforts for wildlife habitat and terrestrial environments. In addition, the FMP provides for adaptive management in the event environmental effects occur that are not anticipated, new information becomes available, or mitigation measures prove to be less effective than expected. The monitoring results associated with the FMP are communicated to stakeholders and indigenous communities to gain their input and feedback. Condition 13.7.2 of the FMP indicates the requirement to conduct acoustic bat monitoring within the mine and mine periphery.

1.1.2 Bat Population Monitoring

Most population impact assessments for bats are based on abundance estimates from winter colony counts at winter roost sites or estimates from bat occupancy and/or activity during the summer active season using acoustic sampling or live capture data (Udell et al. 2024). It is important to distinguish that acoustic monitoring from stationary ultrasonic recording devices is unable to quantify number of individual bats but records a detection-a series of echolocation pulses associated with a single pass of a bat near the ultrasonic microphone.

The objectives of the acoustic monitoring are to assess bat populations in terms of species presence/absence, relative abundance, detection rates and distribution and how that changes over time as the mine continues its operations. The monitoring will also verify the accuracy of the EA predications and document bat population abundance as it relates to mitigation efforts implemented by the mine.

1.2 Eastern Whip-poor-will

1.2.1 Regulatory Context

Eastern Whip-poor-will was listed as Threatened provincially in 2009 under the provincial ESA. However, they were recently reassessed as Special Concern by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) in December 2022[1]. The Committee on the Status of Species at Risk in Ontario (COSSARO) recommended the species be downlisted provincially to Special Concern in 2023 and Ontario's Ministry of Environment, Conservation and Parks is proposing[2] that they be downlisted provincially from Threatened to Special Concern.

New Gold Inc. is required to complete Phase 1 Eastern-Whip-poor-will monitoring of the mine site and periphery in 2024 as per condition 6.1a) and 6.2 (a)-(g), following the schedule outlined in Appendix G of ESA Overall Benefit permit FF-C-001-14.

Condition 4.2 (b) and 6.2 (c) of the ESA permit requires an acoustic audit accompany the Whip-poor-will monitoring studies. The audit is conducted to determine whether activity at the mine site results in sound levels exceeding 50 dBA (on a 1-hour basis).

[1] this change is not yet reflected on Schedule 1 of the federal Species at Risk Act
[2] https://ero.ontario.ca/notice/019-9411

Acoustic monitoring was conducted at one location north and one location south of the mine site as shown in Figure 1 of the Acoustic Audit Report (IEC 2024). It should be noted that the permit stipulates that acoustic monitoring is to occur in the first week of May as well as in June; however, the timing for the 2024 acoustic audit was delayed. The sound monitoring data was collected at the end of July and into August. Sound levels were measured on a 15-minute basis throughout the program using Larson Davis 831C sound level meters. Meters were set with an "event trigger" of 50 dBA to facilitate interpretation of any exceedances. Sound results, in particular any exceedances of the 50 dBA threshold were cross-referenced with the meteorological data collected at the site to remove exceedances not resultant from mine activity. The full acoustic audit report is provided in Appendix 6.

It is anticipated that amendments will be made to New Gold's Overall Benefit permit to reduce or eliminate monitoring and compensatory activities for Eastern Whip-poor-will since the species and its habitat no longer receive habitat protection under the *Endangered Species Act*, 2007 (ESA) (Subsections 9(1) and 10(1)).

1.3 Other SAR Monitoring

Additionally, Barn Swallow and Bald Eagle nest monitoring was required per provincial Environmental Assessment (EA) notice of approval Condition 5 outlined in New Gold's Follow-up Monitoring Plan Condition 13.7.3 (Amec Foster Wheeler, 2016).

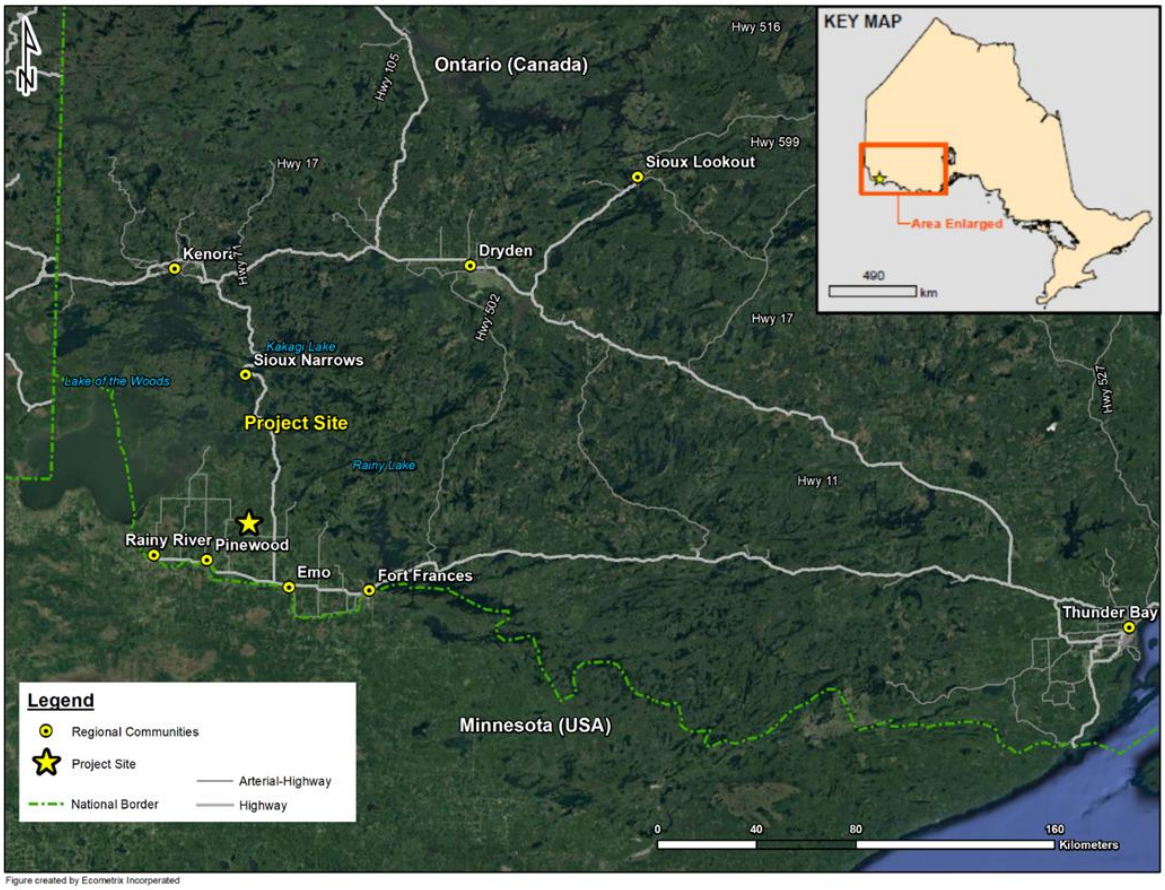

Figure 1. New Gold Rainy River Mine regional location.

2.0 METHODOLOGY

2.1 Bat Monitoring

2.1.1 Ultrasonic Monitoring

Ultrasonic monitoring was conducted at five locations along the mine periphery consistent with bat monitoring conducted by Wood in 2015-2018 and Northern Bioscience in 2020 (Wood 2019, Harris 2021) (Figure 2).

A total of five Wildlife Acoustics™ SM4BAT FS, Song Meter Mini Bat 2AA and 2Li-ion autonomous recording units (ARUs) were deployed at five locations from May 18 to June 30, 2024, for a total of 215 deployment nights. (Table 1 and 2, Figures 3-7). The bat recorder at D21 (Figure 2 and Figure 4) encountered a recording error and no data was saved to the SD card. Another unit was deployed during the latter half of the maternity period (July 19-Aug 31) at this location to collect bat data.

The deployment period covers the maternal brood rearing period (May 1-Aug 31) for the six provincially and federally Endangered bat species: (Tricolored Bat, Little Brown Myotis, Northern Myotis, Hoary Bat, Silver-haired Bat and Eastern Red Bat) occurring in the area.

ARUs were deployed along the margins of waterbodies and watercourses that potentially provide emerging insects with aquatic larval stages and along trails, roads, cutovers, and open areas that provide a less cluttered acoustic recording environment while providing open habitat for foraging by aerial hawking bat species (e.g., Little Brown Myotis) as well as treed habitat for gleaning bat species (e.g., Northern Myotis) (Furlonger et al. 1987).

ARUs were deployed on tree trunks, 1.5-2 m above the ground. Branches within 1 m of the unit were pruned where necessary to declutter the recording environment.

Recorders were programmed to be active from 30 minutes before sunset to thirty minutes after sunrise, triggered by sounds greater than 16,000 Hz. Sunset and sunrise times were calculated by the detector's software based on their coordinates and automatically adjusted daily. SM4BAT FS units used an external SMM-U22 ultrasonic microphone on a 5 m cable, which was typically cable-tied to a bare branch. The Mini Bat 2, 2AA and Li-ion models have a built-in waterproof microphone. Microphones were oriented horizontally to maximize detection distance and aimed towards potentially suitable habitat. Lithium batteries were used to extend battery life and large capacity SD cards (128GB or 256 GB) were used to ensure sufficient data storage.

The ARUs recorded in full spectrum and zero crossing. The distance of microphone sensitivity to ultrasonic calls is subject to multiple design and environmental factors, however, the dominant factor is atmospheric absorption of frequencies. Manufacturer estimates state that the SMM-U1 microphone has a spherical detection volume with a 22.1 m radius for 40 kHz frequencies, which increases (38.8 m) for lower frequencies (20 kHz) and decreases (6.5 m) for higher (100 kHz) frequencies.

2.1.2 Acoustic Analysis

Bats were identified using the Auto ID feature in Kaleidoscope Pro software (version 5.6.3) and a subset was confirmed visually. Kaleidoscope Pro uses sophisticated modelling to match recorded calls to an internal reference library. For each call, the slope, maximum frequency (i.e., the highest frequency), minimum frequency (i.e., the lowest frequency), and duration were determined, as those variables are believed to be species-specific and can be used in comparison to recorded calls. Each variable was then compared with a library of reference calls collected from individual bats that had been identified to species. The bat call was defined as a single, recognizable vocalization from one bat and a bat pass (the pass) as one or more sequential calls, representing calls from a single bat, recorded in one digital file.

Those calls that were categorized as "No ID" in the software were examined to pull out any high frequency calls and labelled "unknown *Myotis* spp. or *Perimyotis* sp." (Little Brown Myotis, Northern Myotis, Tri-colored Bat).

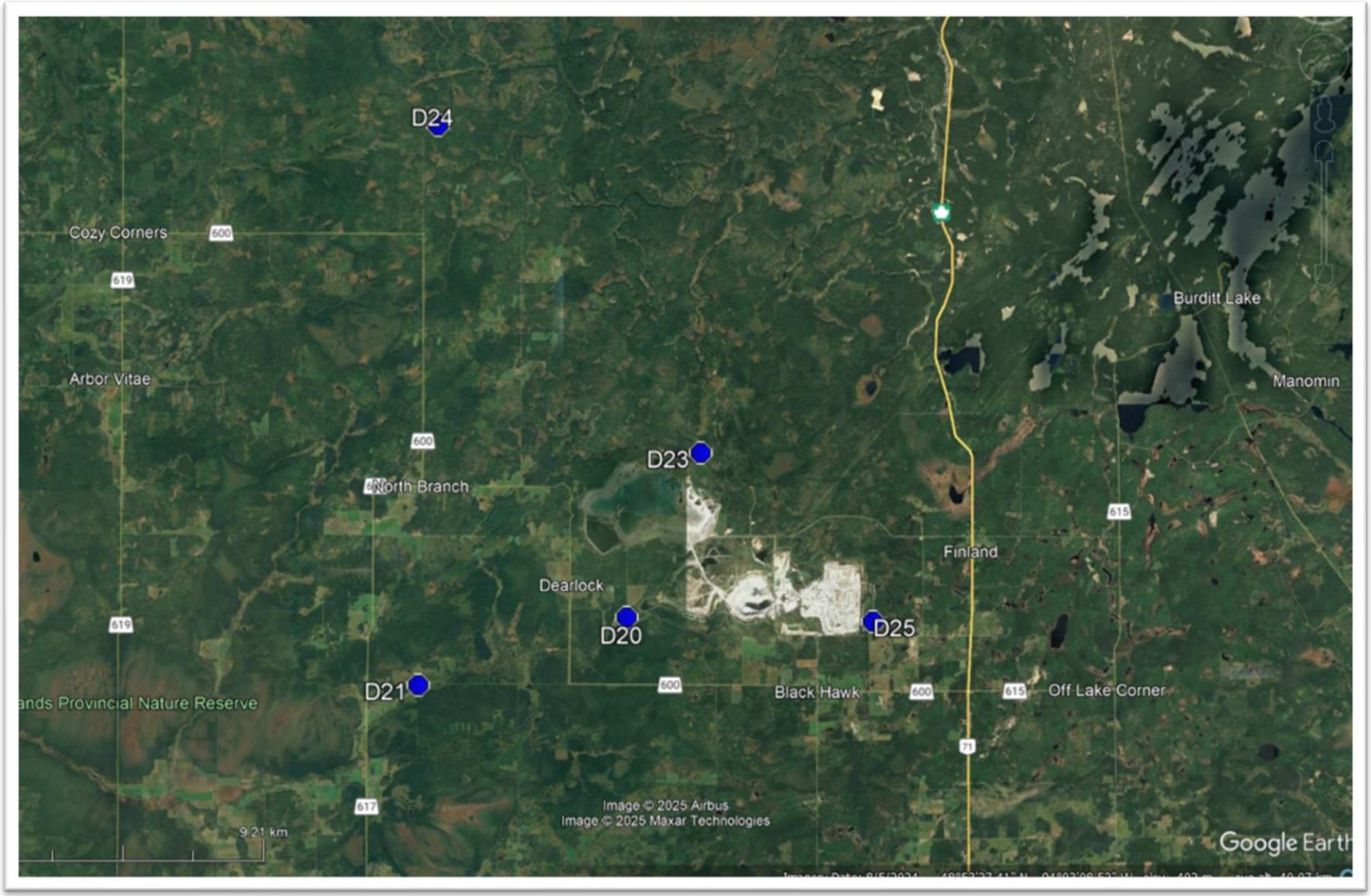

Figure 2. Bat recorder locations at New Gold RRM, 2024

Table 1. Bat recorder deployment details 2024.

Station ID	Unit Type	Deployment Date	Removal Date	Recording Nights	Easting	Northing	Habitat/Notes
D20	SM4 BAT FS	2024-05-18	2024-06-30	43	421502	5409190	2 m on Balsam Poplar on E edge of field
D21	Minibat 2	2024-05-18	2024-06-30	0	414691	5407016	1.5 m on Cherry on E side of river, SD card malfunction, no data recorded.
D21	Minibat 2 AA	2024-07-19	2024-08-31	43	414691	5407016	1.5 m up Cherry on E side of river. Redeployment.
D23	Minibat 2	2024-05-18	2024-06-19	31	424062	5414530	2 m up Jack Pine on rocky outcrop
D23	Minibat Li-ion	2024-06-19	2024-06-30	12	424062	5414530	2 m up Jack Pine on rocky outcrop
D24	Minibat Li-ion	2024-05-18	2024-06-17	29	415544	5425296	2 m up White Birch on N side of wetland
D24	Minibat 2 AA	2024-06-17	2024-06-30	14	415544	5425296	2 m up White Birch on N side of wetland
D25	SM4 BAT FS	2024-05-18	2024-06-30	43	429701	5408968	2 m up Jack Pine on W side of wetland/pond

Table 2. Bat monitoring survey details from 2018-2024.

Date	Detector	Recording Dates	# nights
2015	D20	June 7-20, June 26- July 10	29
	D21	June 7-18, June 26- July 9	26
	D23	June 7-18, June 26- July 9	25
	D24	June 7-22, June 27- July 10	31
	D25	June 7-21, June 26- July 10	30
2016	D20	June 25- July 9	15
	D21	June 19- 30	12
	D23	June 20- July 4	15
	D24	June 19-July 1	13
	D25	June 20- July 3	14
2017	D20	June 3-16, July 1- 17	31
	D21	June 1-6, July 2- 15	20
	D23	June 2-16, July 1- 15	30
	D24	June 1-15, July 2- 15	29
	D25	June 3-16, July 1- 16	31
2018	D20	Aug 12-Sep 6	26
	D21	June 21-27, Aug 12-Sep 6	N/A
	D23	June 2-16, July 1- 15	N/A
	D24	June 1-15, July 2- 15	N/A
	D25	Aug 12-Sep 6	N/A
2020	D20	June 2 – July 1	30
	D21	June 2 – July 1	30
	D23	June 2 – July 1	30
	D24	June 2 – July 1	30
	D25	June 2 – July 1	30
2024	D20	May 18-June 30	43
	D21	July 19-Aug 31	43
	D23	May 18-June 30	43
	D24	May 18-June 30	43
	D25	May 18-June 30	43

Figure 3. Wildlife Acoustics SM4 Bat detector and habitat at bat monitoring station D20.

Figure 4. Wildlife Acoustics MiniBat 2 and habitat at bat monitoring station D21.

Figure 5. Wildlife Acoustics Minibat 2 and habitat at bat monitoring station D23.

Figure 6. Wildlife Acoustics Minibat Li-ion at bat monitoring station D24.

Figure 7. Wildlife Acoustics SM4 at bat monitoring station D25.

Figure 8. Bat monitoring station D25 representative habitat.

2.2 Eastern Whip-poor-will Monitoring

Aspen staff completed monitoring for Eastern Whip-poor-will on the mine site and mine periphery (Phase 1 monitoring) during two field visits from May 18-20 and June 16-20, 2024. Surveys followed the Draft Survey Protocol for Eastern Whip-poor-will in Ontario (MNRF 2014). Previous surveys completed by Wood from 2015-2018 (Wood 2019) and Northern Bioscience in 2020 (NBS 2021) followed the *Whip-poor-will Roadside Survey Participant's Guide* (BSC 2012) protocol and survey station spacing ranged from 200-1600 m. MECP previously indicated a strong preference for following the draft provincial survey protocol, and because the goal of EWPW monitoring is to accurately assess occupancy and distribution, the survey stations were revised to have a consistent 500 m spacing in 2022, which was again used in 2024. Eight survey stations were completed within the mine site, and 42 within the mine periphery (Phase 1) (Figure 9, Appendix 3).

Surveys were conducted by an experienced avian biologist within a week on either side of the full moon within the survey window protocol of May 18-June 30. The full moons during the survey window were on May 23 and June 21. The first round of surveys was completed on May 18-20, the second and third rounds from June 16-20 (Table 3). Surveys were conducted on calm nights with little cloud cover and no precipitation, when possible (Appendix 4).

Survey stops lasted 5 minutes and began 30 minutes after sunset and continued until roughly midnight or 01:00. Survey location (UTM), start and end time, and habitat description were recorded. Environmental conditions (air temperature, wind, cloud cover, moon visibility) and natural or anthropogenic noise disturbance were noted. Common Nighthawk (*Chordeiles minor*) (Special Concern) were also recorded, as well as other bird and amphibian species.

When Eastern Whip-poor-will were detected, the number of individuals, direction, and distance were estimated, and where access allowed, triangulation efforts were made to determine a more accurate location of the singing male within its territory. Where applicable, raw data were spatially analyzed to determine the number of territorial males and the centroid of each individual's location based on triangulation distances and directions. From this process, the number of unique individuals and their approximate territories could be mapped to estimate the number of territorial males over each of the three rounds of surveys.

Table 3. Moon and sunset times during EWPW surveys for Rainy River, ON 2024. Source www.timeanddate.com.

Date	Sunset	Moonrise	Moonset	% Illumination
May 18	20:57	15:57	3:38	81.9
May 19	20:59	17:04	3:40	88.8
May 20	21:00	18:13	4:03	94.3
June 16	21:23	15:57	2:09	76.1
June 17	21:23	17:08	2:23	84.1
June 18	21:24	18:22	2:40	90.9
June 19	21:24	19:38	3:01	96.0
June 20	21:24	20:51	3:31	98.0

Figure 9. Phase 1 Eastern Whip-poor-will Monitoring Stations at New Gold RRM, 2024.

2.3 Eastern Whip-Poor-Will Acoustic Audit

Independent Environmental Consultants (IEC) was retained by New Gold Inc. to assist in the completion of an ambient sound monitoring study in the vicinity of the Rainy River Mine, which is part of an acoustic auditing program that is required under the *Endangered Species Act*, as stipulated by the Ontario Ministry of Natural Resources (MNR) in an *Overall Benefits Permit* issued to the New Gold Rainy River Mine (Permit No. FF-C-001-14). For detailed methodology, see

Appendix 6.

2.4 Bald Eagle Nest Monitoring

All known Bald Eagle nests are required to be monitored to determine annual and seasonal activity at the nest site and to determine fledging success as per provincial EA notice of approval Condition 5 outlined in New Gold's Follow-up Monitoring Plan Condition 13.7.3 (Amec Foster Wheeler, 2016).

Bald Eagles were previously listed as Special Concern provincially, however in 2023 were legally de-listed from the Species at Risk Act and are now Not at Risk.

Monitoring of two known Bald Eagle nests was completed to determine presence of breeding activity and nest success. These nests are located on Jones Road and Highway 600 west of the mine site (Figure 10). An Aspen biologist visited the nests on May 18, 20 and June 20, 23 and 29. During monitoring efforts, the nest and surrounding area was observed to determine nest occupancy and breeding behaviour (presence of nestlings, adults carrying prey, etc.) Environmental conditions such as air temperature, wind and cloud cover were also recorded. Monitoring was typically completed for one hour each visit using binoculars and a spotting scope.

2.5 Barn Swallow Monitoring

Four Barn Swallow (Special Concern) nest structures surrounding the mine site were monitored to determine occupancy, nest density and fledging success and breeding success as per provincial EA notice of approval Condition 5 in New Gold's Follow-up Monitoring Plan Condition 13.7.3 (Amec Foster Wheeler, 2016) on May 4, 18, June 2, 3, 29, 30 and July 6 (Figure 10, Appendix 7). Aspen and New Gold biologists observed the nest structures and surrounding area with binoculars and a spotting scope for typically 30 minutes. The nest structures were then visually inspected for evidence of nesting (nesting material, eggs, feces, feathers) and of predation using a small, handheld, telescoping mirror. Environmental conditions such as air temperature, wind and cloud cover were also recorded.

Figure 10. Bald Eagle and Barn Swallow monitoring locations, 2024.

2.6 Incidental SAR Monitoring

New Gold RRM is required to document all incidental SAR observations annually. Aspen biologists also documented incidental SAR observations during fieldwork in 2024 and a summary of both is provided in Section 3.6.

2.7 Mortality Events Monitoring

As per ESA permit Condition 7.3 (k), New Gold is required to document any mortality events occurring within the project site and peripheral areas. If applicable, adaptive management strategies are to be outlined to reduce mortality.

2.8 Species at Risk Training

Species at Risk training is required for all staff and contactors who work on site as per Condition 4.3 (a) of the Overall Benefit permit. Training emphasizes educating personnel about the purpose of the OB areas, the permit and its conditions, as well as mitigating harm to the species and damaging or destroying habitat.

2.9 Equipment Operating Hours

Operations at Rainy River Mine in 2024 included blasting, loading, hauling, dumping, crushing, milling rock placement, and dam construction. Vehicle and equipment operating time is recorded for each piece of equipment by on-board GPS and operator hour recordings. A summary of equipment operating hours is tabulated in Appendix 11.

3.0 RESULTS

3.1 Bat Monitoring

3.1.1 Ultrasonic Monitoring

Six species of bats were detected at each of the five acoustic bat monitoring stations in 2024 (Table 4). This represents all known species whose documented Canadian range overlap the Project site, with the exception of Northern Myotis, which was not detected, and Tri-colored bat that was present but outside of its known range (Dobbyn 1994, Naughton 2012, COSSARO 2015, BCI 2018). All are listed as provincially Endangered with the exception of the Big Brown Bat.

A total of 19,746 ultrasonic detections (bat passes) were recorded cumulatively from all ARUs programmed and deployed at all five bat stations. 87% of bat detections were identified to species (Table 4 and 5, Appendix 1 and 2). Silver-haired and Hoary Bats were the most detected species, accounting for approximately 58% and 23% of all identified bat recordings at all stations, respectively. Big Brown Bats and Eastern Red Bats were much less commonly detected (3% and 1% of all positively identified calls respectively) (Table 6, Figure 11).

In comparison, the bat species that overwinter in northern Ontario that are most affected by white-nose syndrome, were the least numerous. Little Brown Myotis accounted for 1% of bat recordings, while Tri-colored Bats were detected at <1% of recordings. Unknown high frequency bats (*Myotis* spp. and *Perimyotis* sp.) also accounted for only <1% of recordings. Northern Myotis was not detected at any locations in 2024.

As discussed in previous monitoring reports, the monitoring stations are not consistent in terms of quality of bat habitat or likelihood of detection. Bat species favour high quality foraging habitat; diverse habitat that includes waterbodies, watercourses, fields, open areas and clearings for hunting aerial insects. As in past years, monitoring station D21 located on the Pinewood River at the intersection of large fields and forested habitats saw the highest number of detections (37% of all total passes from all 5 stations). In contrast, D23 which is located in a forested area, far from waterbodies or large open areas

saw only 8% of detections. More *Myotis* and *Perimyotis* passes were recorded at D21 (n=129 and 42%) than at other stations, as were Eastern Red Bat and Silver-haired Bat (n=6,141 and 38%). Another consideration for the high detection rate at D21 is that monitoring began in the second half of the maternity period, opposed to the first half used for the other monitoring stations. This means that the "pre-volant" period in early summer before juvenile bats begin to fly was not captured. Instead, monitoring occurred when both adults and juveniles were active, which could have increased detection rates.

Table 4. Bat species detected at New Gold RRM from 2012-2024.

Species	2012	2013	2015	2017	2018	2020	2024
Big Brown Bat (*Eptesicus fuscus*)	-	X	X	X	X	X	X
Silver-haired Bat (*Lasionycteris noctivagans*)	X	X	X	X	X	X	X
Eastern Red Bat (*Lasiurus borealis*)	X	-	X	X	X	X	X
Hoary Bat (*Lasiurus cinereus*)	X	X	X	X	X	X	X
Little Brown Myotis *(Myotis lucifugus)*	X	X	X	X	X	X	X
Northern Myotis (*Myotis septentrionalis*)	X	X	X	-	-	X	-
Tri-colored Bat (*Perimyotis subflavus*)	-	-	-	-	-	-	X

Table 5. Bat detections recorded at monitoring stations, New Gold RRM, 2024.

Station	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Little Brown Myotis	Northern Myotis	Tri-colored Bat	Myotis or Perimyotis spp.	Unknown Species	Total
D20	143	38	1620	1858	63	0	8	18	375	**4123**
D21	144	90	745	5306	36	0	43	50	856	**7649**
D23	38	3	398	895	11	0	3	9	281	**1638**
D24	41	55	1505	1184	17	0	1	12	739	**3554**
D25	209	10	314	2306	24	0	1	11	286	**3161**
Total	**575**	**196**	**4582**	**11549**	**151**	**0**	**56**	**100**	**2537**	**17209**

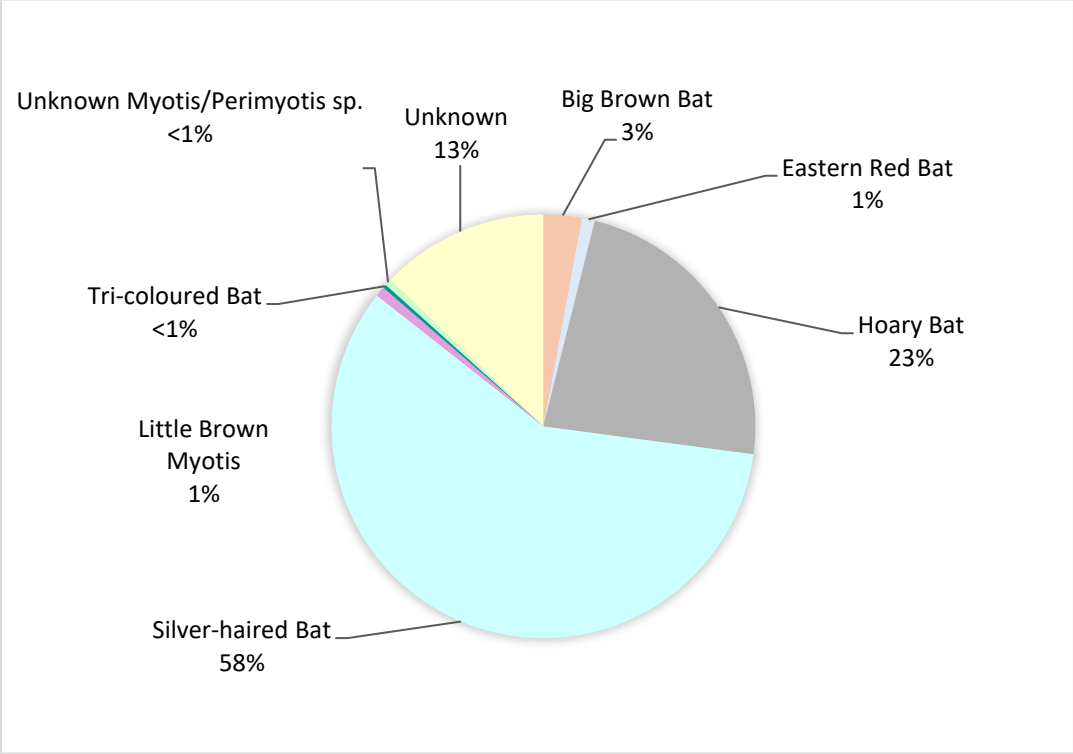

Figure 11. Relative abundance of bat species at New Gold RRM, 2024.

Table 6. Comparative bat abundance data from 2015-2024. (Data from Wood 2018 excluded as multiple recorders failed)

Year	Detector	Little Brown Myotis		Northern Myotis		Unidentified Myotis or Perimyotis sp.		Tri-colored Bat		Eastern Red Bat		Hoary Bat		Silver-Haired Bat	
		Total Passes	Passes/ night	Total Passes	Passes/ night	Total Passes	Passes/ night	Total Passes	Passes/ night	Total Passes	Passes/ night	Total Passes	Passes/ night	Total Passes	Passes/ night
2015	D20	418	14.41	4	0.14	629	21.69	0	0	34	1.17	152	5.24	468	16.14
	D21	3880	149.23	0	0	1272	48.92	0	0	334	12.85	73	2.81	1487	57.19
	D23	90	3.6	11	0.44	224	8.96	0	0	3	0.12	77	3.08	179	7.16
	D24	510	16.45	5	0.16	249	8.03	0	0	13	0.42	326	10.52	166	5.35
	D25	23	0.77	2	0.07	39	1.3	0	0	0	0	133	4.43	269	8.97
	Total	**4921**	**34.9**	**22**	**0.16**	**2413**	**17.11**	**0**	**0**	**425**	**3.01**	**761**	**5.39**	**2569**	**18.22**
2016	D20	7	0.47	0	0	111	7.4	0	0	2	0.13	263	21.92	241	16.07
	D21	330	27.5	0	0	243	20.25	0	0	6	0.5	27	2.25	425	35.42
	D23	10	0.67	2	0.136	19	1.27	0	0	4	0.26	11	0.73	49	3.27
	D24	23	1.77	0	0	69	5.31	0	0	29	2.23	703	54.08	97	7.46
	D25	10	0.71	0	0	17	1.21	0	0	5	0.36	160	11.43	96	6.86
	Total	**380**	**5.51**	**2**	**0.03**	**459**	**6.65**	**0**	**0**	**46**	**0.66**	**1164**	**16.87**	**908**	**13.16**
2017	D20	11	0.35	0	0	6	0.19	0	0	8	0.26	513	16.55	801	25.84
	D21	2692	134.6	0	0	246	12.3	0	0	136	6.8	200	10	758	37.9
	D23	4	0.13	0	0	1	0.03	0	0	15	0.5	153	5.1	363	12.1
	D24	0	0	0	0	34	1.17	0	0	2	0.07	197	6.79	585	20.17
	D25	2	0.06	0	0	3	0.1	0	0	3	0.1	233	7.52	233	7.52
	Total	**2709**	**19.21**	**0**	**0**	**290**	**2.06**	**0**	**0**	**164**	**1.16**	**1296**	**9.19**	**2740**	**19.43**
2020	D20	3	0.10	0	0	9	0.30	0	0	15	0.5	618	20.6	482	16.07
	D21	5	0.17	0	0	1	0.03	0	0	1	0.03	29	0.97	623	20.77
	D23	5	0.17	0	0	0	0	0	0	1	0.03	0	0	11	0.36
	D24	7	0.23	1	0.03	3	0.10	0	0	4	0.13	452	15.07	549	18.3
	D25	12	0.40	0	0	7	0.23	0	0	7	0.23	767	25.57	1587	52.9
	Total	**32**	**0.21**	**1**	**0.007**	**20**	**0.13**	**0**	**0**	**29**	**0.19**	**1866**	**12.44**	**3252**	**21.68**
2024	D20	63	1.47	0	0	18	0.42	8	0.19	38	0.88	1620	37.67	1858	43.21
	D21	36	0.84	0	0	50	1.16	43	1.00	90	2.09	745	17.33	5306	123.40
	D23	11	0.26	0	0	9	0.21	3	0.07	3	0.07	398	9.26	895	20.81
	D24	17	0.4	0	0	12	0.28	1	0.02	55	1.28	1505	35.00	1184	27.53
	D25	24	0.56	0	0	11	0.26	1	0.02	10	0.23	314	7.30	2306	53.63
	Total	**151**	**0.70**	**0**	**0**	**100**	**0.47**	**56**	**0.26**	**196**	**0.91**	**4582**	**21.31**	**11549**	**53.71**

3.1.2 SAR Bat Population Trends

Myotis species detections declined between 2015 and 2020 at New Gold RRM and continued at low numbers in 2024 (Figure 12). Northern Myotis were not detected at any stations in 2024. Little Brown Myotis declined from 34.9 total passes/night in 2015 to 0.70 total passes/night in 2024. Similarly, unidentified Myotis species declined from 17.11 total passes/night in 2015 to 0.47 total passes/night in 2024. Although it is difficult to determine the proximate cause from this monitoring, the precipitous decline in detections is consistent with population trends in Ontario due to WNS which is caused by the fungus *Pseudogymnoascus destructans* (COSEWIC 2013). The fungus is found in hibernacula (caves, mine shafts and adits), where these species overwinter. The fungus causes metabolic changes, which burn fat stores and cause bats to emerge early from hibernation. Some hibernacula have seen a 90-100% mortality rate (White-Nose Syndrome Response Team 2021, Cheng et al. 2021).

Tri-colored Bat, another Endangered bat species that hibernates in Ontario, was detected at all monitoring stations in 2024, where it had not been recorded in previous monitoring years. It was previously understood that this species' range occurs farther south in Minnesota and in southern Ontario (COSSARO 2015). However, recent research in the far north of Ontario indicates that the northern range limits are likely underestimated, and that this species may undertake annual latitudinal migrations (Layng et al. 2019, Fraser et al. It is possible that in previous years, the software algorithms lumped this species in with other high frequency Myotis species, was overlooked or misclassified.

Silver-haired Bat and Hoary Bat did not show the same decline as *Myotis* spp.
Figure 13). Detections of these species have varied between years but were greater in 2024 than in any previous year. This contrasts with North American wide declining trends (COSEWIC 2023) and may be related to a local increase in populations or increased foraging activity near recorders due to habitat changes or weather conditions.

Eastern Red Bat detections decreased from 3.01 total passes/night in 2015 to 0.91 total passes/night in 2024.

Bat monitoring data are not available for northwestern Ontario; however, detection trends found at the RRM are similar to those found through monitoring efforts from 2015-2019 in Voyageurs National Park, approximately 60 km southeast of RRM (Goodwin and Kirschbaum 2022). During this 5-year study, results indicated that activity levels for Hoary and Silver-haired Bats also appeared to be stable of slightly increasing, but Eastern Red Bat detections decreased, the same pattern seen at the RRM. The *Myotis* and *Perimyotis* species that are highly susceptible to WNS have significantly decreasing trends in activity levels since 2015, as also seen at RRM and elsewhere in the province.

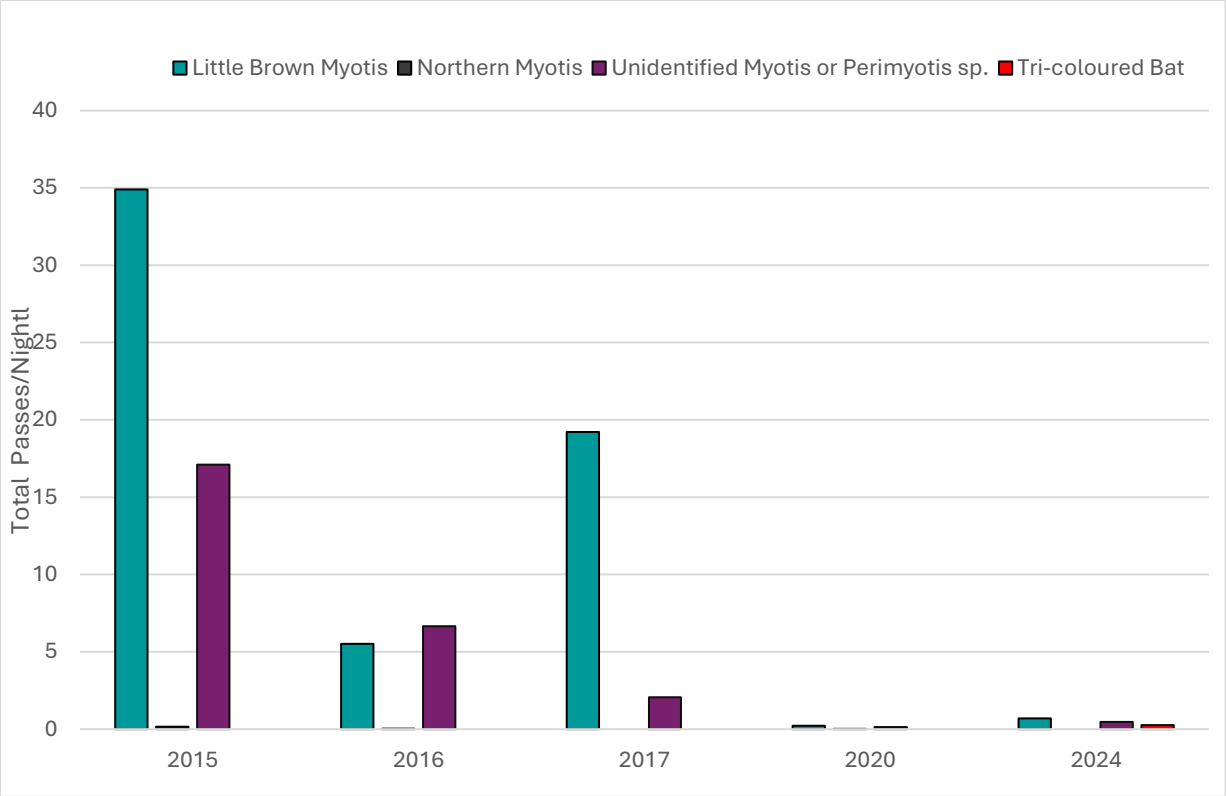

Figure 12. *Myotis* spp. and *Perimyotis* sp. detections from 2015-2024 at New Gold RRM.

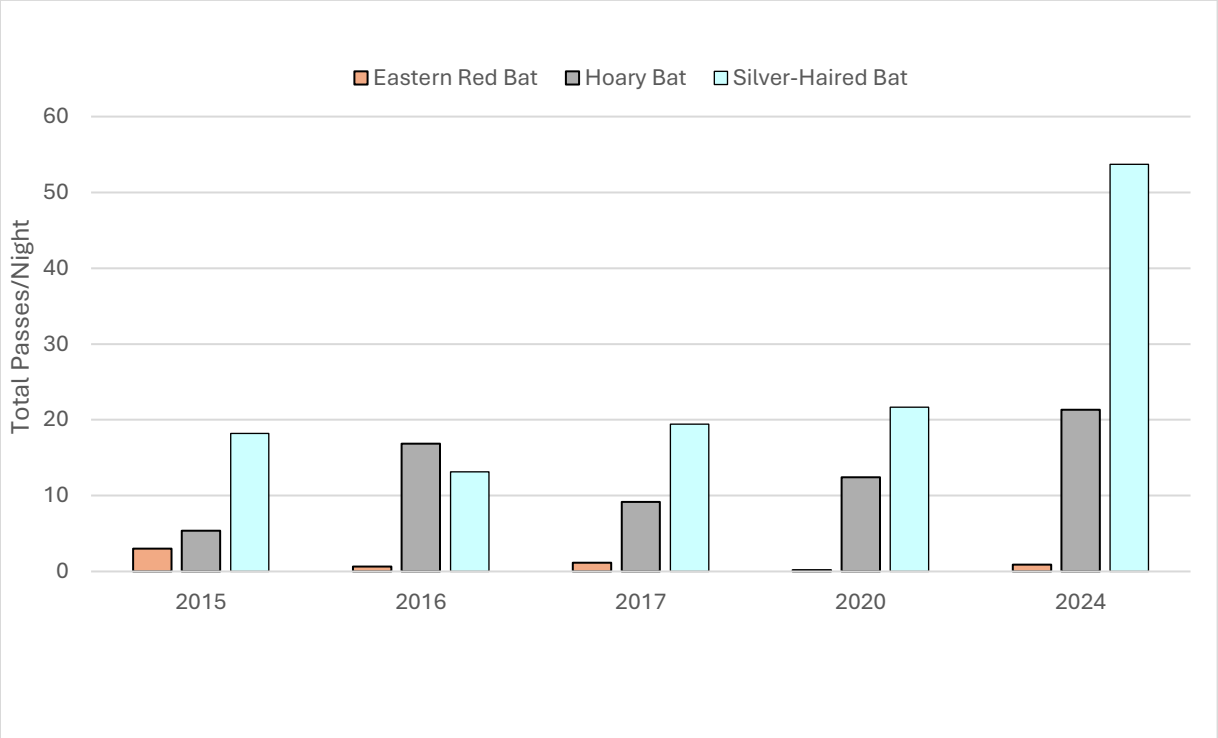

Figure 13. Migratory SAR Bat detections from 2015-2024 at New Gold RRM.

3.2 Eastern Whip-poor-will Monitoring

Twenty Eastern Whip-poor-will were observed within the Phase 1 monitoring area in 2024, with 57 total observations from all rounds. Nineteen of the individuals were territorial breeding males as they were heard singing within a distinct territory during more than one visit during the breeding season. Results are summarized in Tables 7 and 8 and Figure 14, with raw data presented in Appendix 5. Detections were lowest during the second round of surveys (n=9), compared to 24 detections on the first and third rounds. It is possible that survey timing and weather conditions affected detection rates. The southern peripheral area including survey stations W07-08, and W36 and W50 where there is usually a cluster of activity, were conducted late in the survey period between midnight and 1 am during clear conditions on June 18. The northern peripheral area, the other high abundance area, including survey stations W 21-24, and W31-34, were conducted during high cloud cover ranging from 75-100% early in the survey window on June 18.

The number of Eastern Whip-poor-will have fluctuated within the Phase 1 monitoring area but have been relatively stable since 2020. The most breeding territories (n=19) (where a singing male was observed on more than one of the 3 rounds of surveys) were documented in 2024. As in previous years, Eastern Whip-poor-will abundance is highest to the north and south of the mine site, with no detections on the east or west survey stations.

In conclusion, monitoring conducted at New Gold RRM indicate Eastern whip-poor-will abundance is consistent with numbers found in 2023, with an increase of territorial males from 11 in 2023 to 19 in 2024. Although, it is difficult to identify proximate and ultimate causes of variation in abundance between years from the monitoring effort, it is evident that Eastern whip-poor-will have continued to utilize similar breeding habitat adjacent to the mine consistently since 2015.

Table 7. Summary of 2024 Phase 1 mine site and periphery Eastern Whip-poor-will detections per visit.

Station	Round 1	Round 2	Round 3
W07	4	1	2
W08	1	0	1
W19	1	0	1
W21	2	0	2
W22	3	1	4
W23	0	1	0
W24	2	1	5
W31	3	1	2
W32	1	0	1
W33	1	0	2
W34	0	1	0
W35	1	1	0
W36	4	1	1
W37	0	0	1
W50	1	1	2
Total	24	9	24

Table 8. Annual Summary of Eastern Whip-poor-will observations and breeding territories at the Phase 1 mine site and periphery.

Metric	2015	2016	2017	2018	2020	2022	2023*	2024
Total # of EWPW Observed	19	14	9	17	8	19	0	20
Total Estimated # of Breeding Territories	n/a	n/a	n/a	n/a	3	11	n/a	19

***only mine site stations were completed and not peripheral stations in 2023**

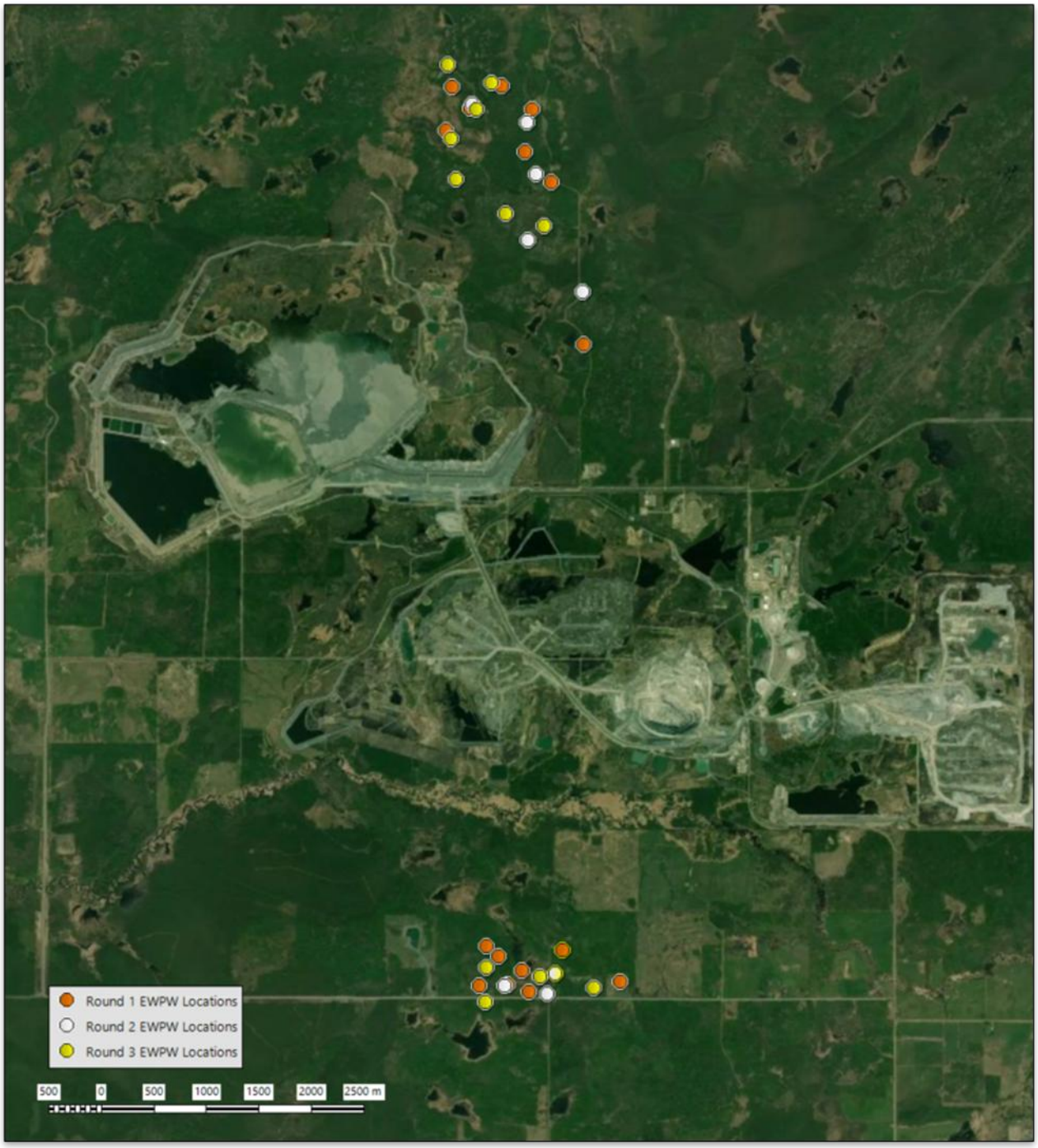

Figure 14. Phase 1 mine site and periphery Eastern Whip-poor-will observations (after triangulation), 2024.

3.3 Eastern Whip-Poor-Will Acoustic Audit

A total of seven of the post validation exceedances of the 50 dBA at the North Station and none at the South Station during the 2024 campaign. Mine operations were not audible in the audio files in the hours that exceeded 50 DBA at the North Station. Therefore, none of the exceedances of the 50 dBA on a 1-hour basis were the result of the RRM operations and the mine remained in compliance with that condition. See

Appendix 6 for the full sound monitoring report.

3.4 Bald Eagle Monitoring

An adult Bald Eagle was observed feeding 2 nestlings on May 20 at Bald Eagle nest 1 at Blackhawk (Figure 15). During monitoring on June 20 and 26, no Bald Eagles were observed during the one- hour survey on each day, suggesting the nest failed and the nestlings did not successfully fledge.

No Bald Eagles were observed at or near the Jones Road nest (Bald Eagle nest 2) during any of the 3 surveys from May to late June and is considered inactive during the 2024 breeding season.

Figure 15. Bald Eagle Nest 1, adult feeding two nestlings, May 20, 2024.

3.5 Barn Swallow Monitoring

No evidence of breeding by Barn Swallows was observed at any of the nest structures during 2024 monitoring efforts. Monitoring results of the nest structures is described in Appendix 7**.**

3.6 Incidental SAR Monitoring

To support the monitoring of SAR species onsite, the Environmental Department implemented a site wide protocol for reporting wildlife in 2015. Through this system and incidental observations, the following SAR sightings were reported by Aspen Biologists, New Gold staff and contractors in 2024; 117 American White Pelican, 24 Bank Swallow, 11 Barn Swallow, 1 Black Ash stand, 11 Bobolink, 2 Eastern Wood-pewee, 2 Peregrine Falcon, 2 Snapping Turtle, and 2 Wood Thrush (Figures 16-18).

A complete list of SAR observations is outlined in Appendix 8.

Figure 16. Male Barn Swallow observed May 21, 2024, south of New Gold RRM.

Figure 17. Peregrine Falcon perched on edge of open pit June 20, 2024, at New Gold RRM.

Figure 18. American White Pelicans preening on south side of New Gold RRM WMP, June 21, 2024.

3.7 Morality Events Monitoring

An American White Pelican was found deceased in Pit Lake on July 5, 2024, which was reported to MECP (Appendix 9)

3.8 Species at Risk Training

As per the ESA permit reporting requirements (Condition 4.3 (b)), a complete summary of SAR awareness training provided in 2024 indicating the names of personnel trained and date of training is provided in Appendix 10. A total of 524 personnel and contractors completed the training in 2024.

3.9 Equipment Operating Hours

The equipment operating hours for heavy machinery in 2024 are summarized in Appendix 11.

4.0 LITERATURE CITED

Amec Foster Wheeler. 2016. Rainy River Project Follow-Up Monitoring Plan for Terrestrial Systems and Habitat Restoration (Including Monitoring for Species at Risk). Per Provincial Environmental Assessment Notice of Approval Condition 5. EA File No: EA 05-09-02/ EAIMS File No: 13102. Version 5.

BCI. 2018. Species Profiles. Bat Conservation International. Accessed online: www.batcon.org.

Bird Studies Canada (BSC). 2012. Whip-poor-will Roadside Survey Participant's Guide. Accessed from: bsceoc.org/resources/wpwi/3a_Roadside_Survey_Guide_2012v1a.pdf.

Caceres, M.C. and R.M.R. Barclay. 2000. *Myotis septentrionalis*. Mammalian Species 634: 1- 4.

Bradley, J.U., B.R.Straw, S.C.Loeb, K.M. Irvine, W.E.Thogmartin, C.L.Lausen, J/D Reichard, J.T.H. Coleman, P.M. Cryan, W.F. Frick et al. 2024. "Using Mobile Acoustic Monitoring and False-Positive N-Mixture Models to Estimate Bat Abundance and Population Trends." *Ecological Monographs* 94(4): e1617. https://doi.org/10.1002/ecm.1617

Cheng, T.L., J. D. Reichard, J.T.H. Coleman, T. J. Weller, W.E. Thogmartin, B.E. Reichert, A.B. Bennett, et al. 2021. "The Scope and Severity of White-Nose Syndrome on Hibernating Bats in North America." *Conservation Biology* 35: 1586–1597

COSEWIC. 2013. COSEWIC assessment and status report on the Little Brown Myotis *Myotis lucifugus*, Northern Myotis *Myotis septentrionalis* and Tri-colored Bat *Perimyotis subflavus* in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. xxiv + 93 pp. (www.registrelep-sararegistry.gc.ca/default_e.cfm)

COSEWIC. 2023. COSEWIC assessment and status report on the Hoary Bat *Lasiurus cinereus*, Eastern Red Bat *Lasiurus borealis* and Silver-haired Bat, *Lasionycteris noctivagans*, in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. xxi + 100 pp. (Species at risk public registry).

COSSARO. 2015. Ontario Species at Risk Evaluation Report for Tri-colored Bat (*Perimyotis subflavus*). Committee on the Status of Species at Risk in Ontario (COSSARO). 21 pp.

Dobbyn, J.S. 1994. Atlas of the Mammals of Ontario. Federation of Ontario Naturalists, Toronto. 120 pages.

Environment and Climate Change Canada. 2018. Recovery Strategy for the Little Brown Myotis (*Myotis lucifigus*), Northern Myotis (*Myotis septentrionalis*) and Tri-colored Bat (*Perimyotis subflavus*) in Canada. Species at Risk Act Recovery Strategy Series. Environment and Climate Change Canada, Ottawa. ix + 172pp.

Fraser EE, McGuire LP, Eger JL, Longstaffe FJ, Fenton MB (2012) Evidence of Latitudinal Migration in Tri-colored Bats, Perimyotis subflavus. PLoS ONE 7(2):e31419. doi:10.1371/journal.pone.0031419

Furlonger, C.L., H.J. Dewar and M.B. Fenton. 1987. Habitat use by Foraging Insectivorous Bats. Canadian Journal of Zoology, 65:284-288.

Goodwin, K. R., and A. A. Kirschbaum. 2022. Acoustic monitoring for bats at Voyageurs National Park: Data summary report for 2015–2019. Natural Resource Data Series NPS/GLKN/NRDS— 2022/1342. National Park Service, Fort Collins, Colorado. https://doi.org/10.36967/nrds-2289997.

Harris, A.G. 2021. New Gold Rainy River Mine Bat Monitoring Report 2020. Unpublished report prepared for New Gold Inc.

Layng, A. M., A. M. Adams, D. E. Goertz, K. W. Morrison, B. A. Pond, and R D. Phoenix. 2019. Bat species distribution and habitat associations in northern Ontario, Canada. Journal of Mammalogy, 100(1):249-260, 2019.

Naughton, D. 2012. The Natural History of Canadian Mammals. Canadian Museum of Nature and University of Toronto Press, Toronto. 784 pp.

Northern Bioscience. 2021. New Gold Rainy River Mine Species at Risk Monitoring Report 2020. Unpublished report prepared for New Gold Inc.

Ontario Ministry of Natural Resources and Forestry. 2014. Survey Protocol for Eastern Whip-poor-will (Caprimulgus vociferus) in Ontario. Ontario Ministry of Natural Resources and Forestry, Species at Risk Branch, Peterborough.

Ontario Ministry of Natural Resources and Forestry (OMNRF). 2017. Survey Protocol for Species at Risk Bats within Treed Habitats. Little Brown Myotis, Northern Myotis and Tri-coloured Bat.

White-Nose Syndrome Response Team. 2021. White Nose Syndrome. Website: https://www.whitenosesyndrome.org/where-is-wns

Wood. 2019. New Gold Inc. Rainy River Mine. 2015 - 2018 Bat Acoustic Monitoring Report Per Provincial Environmental Assessment Notice of Approval Condition 6 TC111504. Unpublished report prepared for New Gold Inc.

Wood. 2019. New Gold Inc. Rainy River Project. 2018 Species at Risk Monitoring Report TC111504. Unpublished report prepared for New Gold Inc.

5.0 APPENDICES

Appendix 1. Raw data from bat detectors from May 18-August 31, 2024, at New Gold RRM.

Station	Date	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Little Brown Bat	Northern Myotis	Tricolored Bat	NOID
D20	20240518			2	31	1			3
D20	20240519	6		8	68				12
D20	20240520	14		25	67	1			15
D20	20240521	1		39	41				3
D20	20240522			1	1				0
D20	20240523	21		72	10				9
D20	20240524	3		38	30				13
D20	20240525			7	7				1
D20	20240526	1		53	19				2
D20	20240527	21		27	34	1			7
D20	20240528	1		31	27	1		1	10
D20	20240529			6	40				12
D20	20240530	8	2	22	95	1			27
D20	20240531			24	63	1			5
D20	20240601			39	72	2			7
D20	20240602			21	61	2			8
D20	20240603	4		28	60				15
D20	20240604	1	1	40	63	3			11
D20	20240605		1	36	43	1			4
D20	20240606		1	67	43				7
D20	20240607			74	27				5
D20	20240608			125	115	2			16
D20	20240609		1	31	28	2			11
D20	20240610			21	30	3			4
D20	20240611	2		66	59	1			18
D20	20240612		1	77	28				6
D20	20240613			8	18	2			3
D20	20240614		1	12	31	1			2
D20	20240615	1		34	63				18
D20	20240616		1	22	52	3			6
D20	20240617			13	36	2			4
D20	20240618	9	2	28	41	13		1	20
D20	20240619		1	29	36	2		2	7
D20	20240620	1	1	48	24	1			5
D20	20240621		1	35	44				5
D20	20240622	8	13	64	32	4		2	16

Station	Date	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Little Brown Bat	Northern Myotis	Tricolored Bat	NOID
D20	20240623	23	3	63	60	4			15
D20	20240624	11	2	65	48	2			10
D20	20240625	4	2	30	65				15
D20	20240626		2	53	44	2		1	8
D20	20240627		1	28	29	2			4
D20	20240628	3		85	44	3		1	20
D20	20240629		1	22	18				4
D20	20240630			1	11				0
D20	20240701								0
Subtotal		143	38	1620	1858	63	0	8	393
D21	20240719		2	19	79				16
D21	20240720	3	6	75	131				18
D21	20240721	5	2	24	166	1			37
D21	20240722	7	2	20	176			1	29
D21	20240723	1	1	13	233	1			30
D21	20240724	1	2	72	120	1			13
D21	20240725	1	2	22	71	1			20
D21	20240726	6		16	143	1		2	30
D21	20240727	12	4	14	132				28
D21	20240728	15	1	24	183	3		3	51
D21	20240729	5	4	30	255	1		2	40
D21	20240730	4	3	42	199	1		5	32
D21	20240731	3	1	43	195	5		1	36
D21	20240801	3	7	75	129				36
D21	20240802	5	6	40	144	2		4	27
D21	20240803			12	144			2	8
D21	20240804	5	1	15	77			1	14
D21	20240805	2	2	9	67	1			7
D21	20240806	2	3	20	66			1	19
D21	20240807	4	1	2	93			1	28
D21	20240808	6		3	117			1	24
D21	20240809	1		5	35				11
D21	20240810	1	2	10	63			2	12
D21	20240811		2	14	36	1			6
D21	20240812	4	3	16	77	1			14
D21	20240813		2	17	64	3			11
D21	20240814	1	5	3	88	2			14
D21	20240815	11	4	4	111	2		2	18
D21	20240816	1	1	4	107			1	17
D21	20240817	3		13	77				17

Station	Date	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Little Brown Bat	Northern Myotis	Tricolored Bat	NOID
D21	20240818	6		22	135			1	10
D21	20240819	1		5	59				7
D21	20240820	3	1	4	103				12
D21	20240821	2		1	60	1		2	11
D21	20240822		2		46				4
D21	20240823		2	2	122	4		1	8
D21	20240824	4	3	9	113	3		2	8
D21	20240825	2	1	4	350			1	15
D21	20240826	11	4	4	285			5	21
D21	20240827	1		3	86			1	25
D21	20240828	1		2	112				15
D21	20240829			2	170				14
D21	20240830		2	3	25	1		1	15
D21	20240831	1	6	8	62				18
Subtotal		144	90	745	5306	36	0	43	906
D23	20240518			5	13				3
D23	20240519	2		3	29				7
D23	20240520			5	23				5
D23	20240521	1		8	11	2			7
D23	20240522				1				0
D23	20240523			2	2				2
D23	20240524				13				6
D23	20240525			1	3				2
D23	20240526	2		4	7				1
D23	20240527	1		2	42				4
D23	20240528				2				3
D23	20240529			2	17				2
D23	20240530	1		6	24				12
D23	20240531			18	90				8
D23	20240601	1		9	16				6
D23	20240602	2		4	6				4
D23	20240603			3	16				5
D23	20240604			17	25				13
D23	20240605	5		14	18				11
D23	20240606	1		3	4				0
D23	20240607			7	5				1
D23	20240608	1		11	14				7
D23	20240609	1		17	6				15
D23	20240610	1		5	5			1	3
D23	20240611	2		13	26				11

Station	Date	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Little Brown Bat	Northern Myotis	Tricolored Bat	NOID
D23	20240612			6	10				3
D23	20240613			5	6				1
D23	20240614			50	10			1	9
D23	20240615		1	10	22	1			13
D23	20240616	2	1	17	56				15
D23	20240617			6	11	1			3
D23	20240618			14	21				5
D23	20240619	2	1	12	36				12
D23	20240620			13	30	1			2
D23	20240621	2		23	39	2			6
D23	20240622	3		21	43				13
D23	20240623	2		13	54				11
D23	20240624	2		7	36				5
D23	20240625			19	40				22
D23	20240626	1		15	13				4
D23	20240627	1		1	14	3		1	5
D23	20240628			1	21	1			9
D23	20240629			3	1				5
D23	20240630	2		3	14				9
D23	20240701								0
Subtotal		38	3	398	895	11	0	3	290
D24	20240617	3		2	12	1			7
D24	20240618	1	1	8	19				8
D24	20240619		1	37	31				15
D24	20240620	1		59	24				10
D24	20240621	2		90	55				17
D24	20240622	5	2	67	46	1			27
D24	20240623	1	1	71	26	1			16
D24	20240624	1	1	51	72				38
D24	20240625	1	3	80	99			1	71
D24	20240626	2	1	18	11				7
D24	20240627	2	2	16	10	1			9
D24	20240628	2		14	13	1			13
D24	20240629			2	3				1
D24	20240630		2	74	20				27
D24	20240701		1						0
D24	20240518			3	68				3
D24	20240519	1		12	88				17
D24	20240520	1		44	41				13
D24	20240521			20	32				9

Station	Date	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Little Brown Bat	Northern Myotis	Tricolored Bat	NOID
D24	20240522			4					0
D24	20240523			6	7				1
D24	20240524			1	1	1			1
D24	20240525			8	12				3
D24	20240526		31	91	30				64
D24	20240527	1		84	30				72
D24	20240528		2	94	14				24
D24	20240529	2		16	18				15
D24	20240530			7	26				13
D24	20240531			16	9				1
D24	20240601	2	2	21	81				25
D24	20240602			6	14	1			4
D24	20240603	2		27	31	3			26
D24	20240604			35	28	1			10
D24	20240605			40	10	1			13
D24	20240606			4	9				4
D24	20240607			31	4				6
D24	20240608		1	40	14				8
D24	20240609	5		45	20				33
D24	20240610			19	21				7
D24	20240611	1		48	28				37
D24	20240612	2		38	23				12
D24	20240613	1	3	43	11	1			14
D24	20240614	1		24	6	3			8
D24	20240615		1	25	22	1			12
D24	20240616	1		33	40				24
D24	20240617			31	5				6
Subtotal		41	55	1505	1184	17	0	1	751
D25	20240518	1		2	29				3
D25	20240519	7	1	8	91				8
D25	20240520	2		4	207				3
D25	20240521	3		5	45				6
D25	20240522				5				0
D25	20240523	56		5	292				48
D25	20240524	6			92				9
D25	20240525	1			22				1
D25	20240526	2		3	33				4
D25	20240527	2		2	163				10
D25	20240528	1		3	84	3			3
D25	20240529			3	60				3

Station	Date	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Little Brown Bat	Northern Myotis	Tricolored Bat	NOID
D25	20240530	6		12	104	1			12
D25	20240531	6		27	117				13
D25	20240601	1		11	71	1			5
D25	20240602	2		9	33				3
D25	20240603	2		14	80	2			3
D25	20240604		1	13	36	2			0
D25	20240605	1	2	16	45				7
D25	20240606	4		1	11	2			1
D25	20240607	1		5	12				1
D25	20240608	52		9	31				23
D25	20240609	19			23				12
D25	20240610			2	15				2
D25	20240611	1		7	87	3			3
D25	20240612	1		9	31				10
D25	20240613			12	8				1
D25	20240614			6	17				1
D25	20240615	2		5	24				1
D25	20240616	6		12	48				11
D25	20240617			2	15	1		1	3
D25	20240618			11	12				1
D25	20240619		2	12	32	1			3
D25	20240620			7	12				1
D25	20240621	9		9	29	1			9
D25	20240622		1	7	17	1			2
D25	20240623	6	2	11	44				19
D25	20240624	3		2	68				3
D25	20240625	6		11	47	1			19
D25	20240626			27	35	2			18
D25	20240627		1	5	12	1			3
D25	20240628			2	53	2			5
D25	20240629			1	7				1
D25	20240630			2	7				3
D25	20240701								0
Subtotal	*	209	10	314	2306	24	0	1	297

Appendix 2. Representative spectrogram for SAR bat species detected at New Gold RRM, 2024.

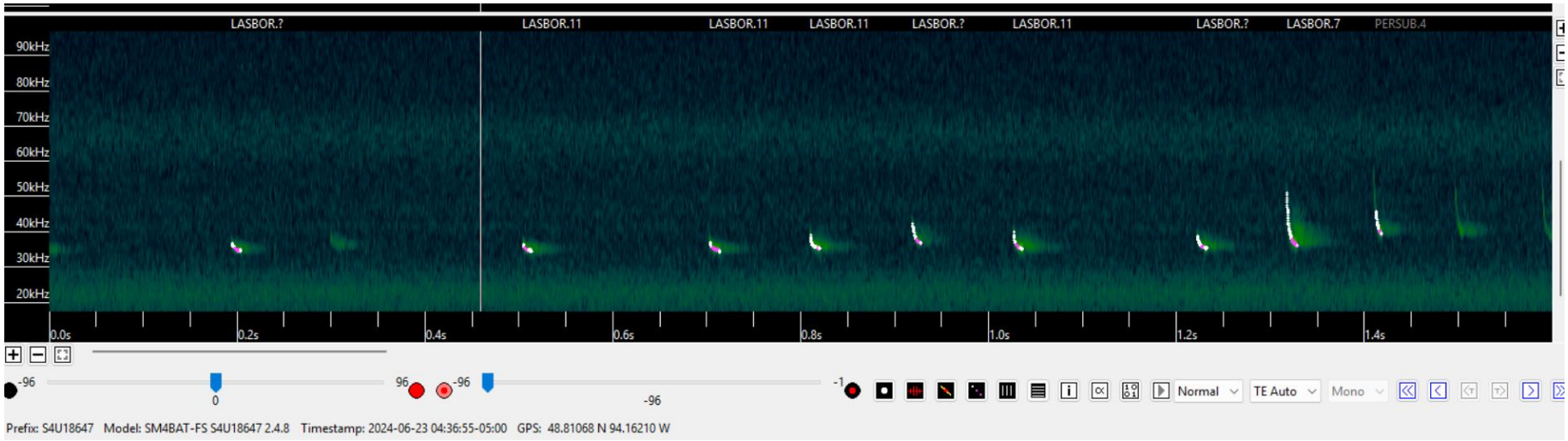

Figure 19. Eastern Red Bat spectrogram at D25 June 23, 2024.

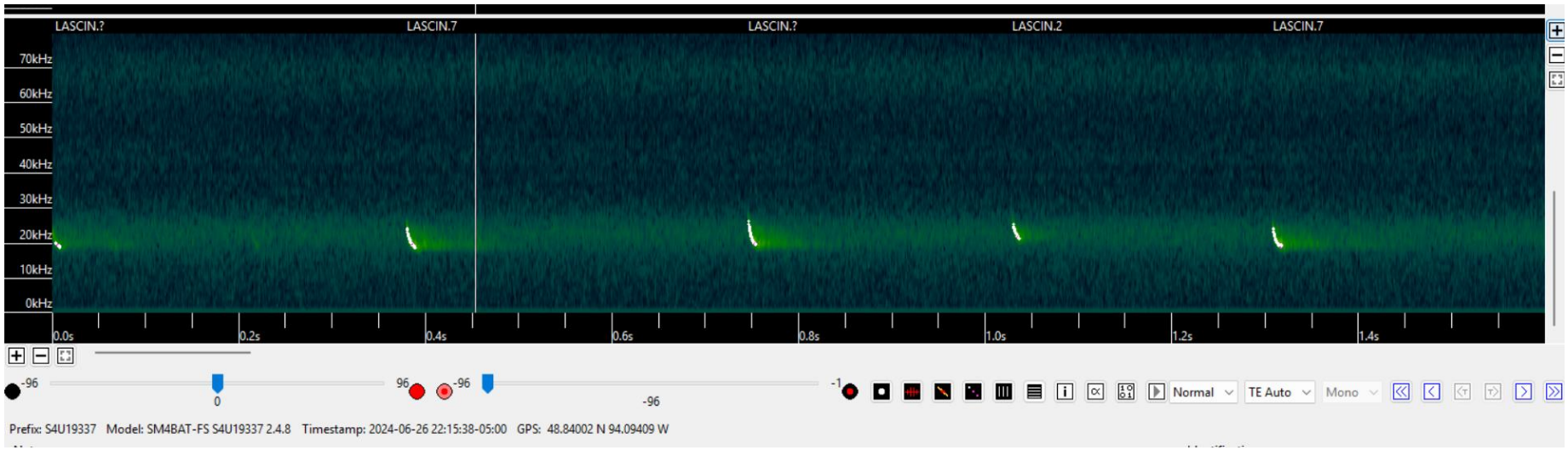

Figure 20. Hoary Bat spectrogram at D20 June 26, 2024.

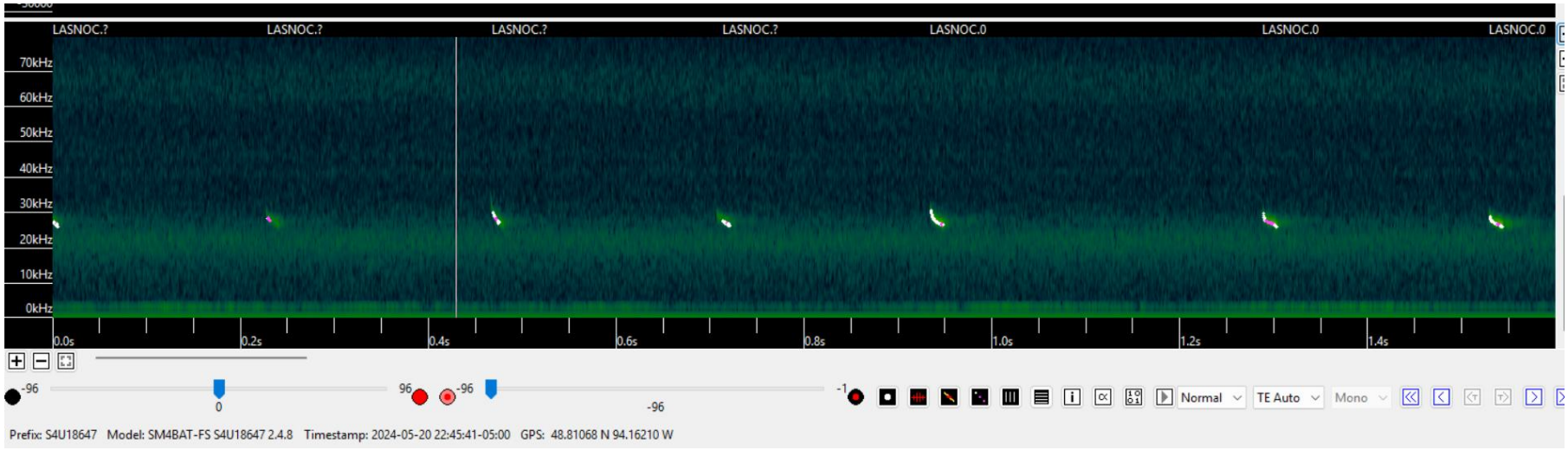

Figure 21. Silver-haired Bat spectrogram at D25 May 20, 2024.

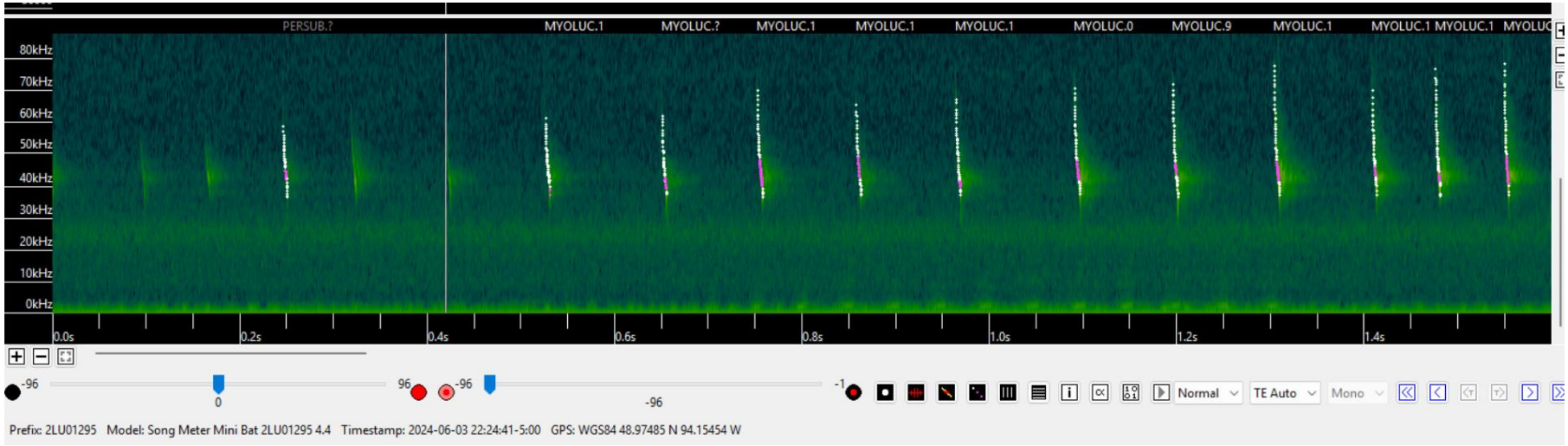

Figure 22. Little Brown Myotis spectrogram at D24 June 3, 2024.

Figure 23. Tri-colored Bat spectrogram at D20 June 28, 2024.

Appendix 3. Eastern Whip-poor-will survey station locations at New Gold RRM, 2024.

Station ID	Grid	Easting	Northing
W01	15U	419424	5413534
W02	15U	419734	5413014
W03	15U	419730	5412335
W04	15U	419285	5412818
W05	15U	419714	5410781
W06	15U	421570	5410599
W07	15U	423761	5406972
W08	15U	424846	5406943
W09	15U	426033	5406908
W10	15U	426406	5408613
W11	15U	427699	5407845
W12	15U	427701	5406983
W13	15U	428051	5408490
W14	15U	429011	5408489
W15	15U	429863	5408487
W16	15U	431009	5408460
W17	15U	431174	5409737
W18	15U	431192	5411023
W19	15U	424835	5414315
W20	15U	424801	5412022
W21	15U	424072	5414518
W22	15U	423827	5415442
W23	15U	424791	5413288
W24	15U	424474	5415242
W25	15U	419450	5411862
W26	15U	419694	5411286
W27	15U	421114	5410257
W28	15U	422002	5410227
W29	15U	421522	5409758
W30	15U	421516	5409255
W31	15U	423813	5414941
W32	15U	424451	5414440
W33	15U	424537	5414827
W34	15U	424792	5413787
W35	15U	424830	5412664
W36	15U	424295	5406969
W37	15U	425453	5406928
W38	15U	427204	5406910
W39	15U	426652	5406909

Station ID	Grid	Easting	Northing
W40	15U	427709	5407434
W41	15U	427706	5408300
W42	15U	428555	5408496
W43	15U	429501	5408492
W44	15U	427057	5408523
W45	15U	430503	5408476
W46	15U	431170	5408942
W47	15U	431188	5409339
W48	15U	431178	5410330
W49	15U	420302	5410254
W50	15U	424444	5407453

Appendix 4. Summary of New Gold RRM Eastern Whip-poor-will survey station data, 2024.

Date	Station ID	Easting	Northing	Rnd	Start Time	End Time	Temp °C	Wind (Beaufort)	Cloud Cover (%)	Precip	Moon Visible (%)	Noise Disturbance	Noise Comments
18-May-2024	W06	421570	5410599	1	21:47	21:52	13.0	3	1	0	81.9	2	SPPE, BOCH
18-May-2024	W10	426406	5408613	1	22:36	22:41	13.2	2	0	0	81.9	2	SPPE, BOCH, mine, AMTO
18-May-2024	W11	427699	5407845	1	23:36	23:41	12.7	3	0	0	81.9	1	SPPE, BOCH
18-May-2024	W12	427701	5406983	1	23:48	23:53	11.8	2	0	0	81.9	1	SPPE, BOCH
18-May-2024	W13	428051	5408490	1	22:45	22:50	13.0	2	0	0	81.9	2	SPPE, AMTO, mine
18-May-2024	W14	429011	5408489	1	22:57	23:02	12.7	3	0	0	81.9	2	Mine, SPPE, BOCH
18-May-2024	W15	429863	5408487	1	23:11	23:16	12.8	3	0	0	81.9	1	SPPE, AMTO, BOCH
18-May-2024	W16	431009	5408460	1	23:23	23:27	12.8	3	0	0	81.9	2	SPPE, BOCH, AMTO
18-May-2024	W27	421114	5410257	1	21:54	21:59	12.9	3	1	0	81.9	2	SPPE, BOCH
18-May-2024	W28	422002	5410227	1	21:40	21:45	13.0	3	1	0	81.9	2	SPPE, BOCH, AMTO
18-May-2024	W29	421522	5409758	1	21:31	21:36	13.2	3	1	0	81.9	2	BOCH
18-May-2024	W30	421516	5409255	1	21:24	21:29	13.3	3	1	0	81.9	2	SPPE, BOCH
18-May-2024	W38	427204	5406910	1	23:54	23:59	11.6	2	0	0	81.9	2	Mine, BOCH, SPPE, AMTO
18-May-2024	W39	426651	5406909	1	23:59	0:04	11.8	2	0	0	81.9	1	BOCH, AMTO
18-May-2024	W40	427709	5407434	1	23:42	23:47	12.3	2	0	0	81.9	1	Mine, SPPE
18-May-2024	W41	427706	5408300	1	22:23	22:28	12.3	3	0	0	81.9	2	mine, SPPE
18-May-2024	W42	428555	5408496	1	22:51	22:56	13.2	2	0	0	81.9	2	Mine, SPPE, AMTO
18-May-2024	W43	429502	5408492	1	23:05	23:10	12.8	3	0	0	81.9	2	Mine, SPPE, BOCH
18-May-2024	W44	427057	5408523	1	22:31	22:36	13.4	3	0	0	81.9	2	SPPE, AMTO, BOCH, mine
18-May-2024	W45	430503	5408476	1	23:17	23:22	12.6	3	0	0	81.9	1	SPPE
18-May-2024	W49	420302	5410254	1	22:00	22:05	12.3	3	1	0	81.9	1	BOCH, SPPE
19-May-2024	W09	426033	5406908	1	0:06	0:11	11.5	2	0	0	81.9	1	BOCH
19-May-2024	W18	431192	5411023	1	23:58	0:03	11.8	2	3	0	88.8	2	SPPE, AMTO, mine
19-May-2024	W19	424835	5414315	1	22:47	22:52	12.9	1	3	0	88.8	2	SPPE, mine
19-May-2024	W20	424801	5412022	1	23:43	23:48	12.1	1	3	0	88.8	2	Mine
19-May-2024	W21	423975	5414517	1	22:30	22:37	13.1	1	3	0	88.8	2	
19-May-2024	W22	423842	5415466	1	21:25	21:49	13.6	1	3	0	88.8	1	Mine
19-May-2024	W23	424791	5413288	1	23:22	23:27	12.2	1	3	2	88.8	2	SPPE, AMTO
19-May-2024	W24	424474	5415310	1	23:03	23:08	12.4	1	3	0	88.8	1	SPPE, mine

Date	Station ID	Easting	Northing	Rnd	Start Time	End Time	Temp °C	Wind (Beaufort)	Cloud Cover (%)	Precip	Moon Visible (%)	Noise Disturbance	Noise Comments
19-May-2024	W31	423813	5414943	1	21:54	22:27	13.1	1	3	0	88.8	1	BOCH, SPPE
19-May-2024	W32	424451	5414440	1	22:40	22:46	12.7	1	3	0	88.8	2	SPPE, AMTO, GRFR
19-May-2024	W33	424537	5414827	1	22:53	22:58	12.6	1	3	0	88.8	1	SPPE
19-May-2024	W34	424792	5413787	1	23:15	23:20	12.4	2	3	0	88.8	2	SPPE
19-May-2024	W35	424830	5412664	1	23:28	23:33	12.1	1	3	2	88.8	2	SPPE, AMTO, BOCH, mine
20-May-2024	W01	419424	5413534	1	21:25	21:30	17.1	2	3	0	94.3	1	SPPE, mine
20-May-2024	W02	419734	5413014	1	21:38	21:36	16.6	2	1	0	94.3	2	SPPE, BOCH, mine
20-May-2024	W03	419730	5412335	1	21:38	21:43	16.1	1	1	0	94.3	3	SPPE, BOCH, mine
20-May-2024	W05	419714	5410781	1	23:01	23:06	14.9	1	0	0	94.3	2	Mine, SPPE, BOCH
20-May-2024	W07	423761	5406972	1	22:16	22:21	14.6	1	0	0	94.3	1	Mine, SPPE
20-May-2024	W08	424846	5406943	1	22:59	23:04	13.9	1	0	0	94.3	1	mine, SPPE
20-May-2024	W17	431174	5409737	1	0:10	0:15	11.8	2	3	0	88.8	2	SPPE, AMTO, mine
20-May-2024	W25	419450	5411862	1	21:47	21:52	15.6	2	0	0	94.3	2	Mine, SPPE, GRTF
20-May-2024	W26	420302	5410254	1	21:55	23:00	15.3	1	0	0	94.3	2	SPPE, AMTO, BOCH
20-May-2024	W36	424119	5406966	1	22:37	22:42	13.8	1	0	0	94.3	2	SPPE, BOCH, GRTF
20-May-2024	W37	425453	5406928	1	23:10	23:17	13.7	1	0	0	94.3	2	SPPE, BOCH, GRTF
20-May-2024	W46	431170	5408942	1	0:23	0:28	11.5	1	3	0	88.8	2	SPPE, AMTO
20-May-2024	W47	431188	5409339	1	0:16	0:21	11.5	1	3	0	88.8	1	SPPE
20-May-2024	W48	431178	5410330	1	0:04	0:09	12.1	2	3	0	88.8	2	SPPE, BOCH, AMTO, mine
20-May-2024	W50	424444	5407453	1	20:47	20:52	14.7	1	0	0	94.3	2	Mine, BOCH
16-Jun-2024	W06	421570	5410599	2	22:11	22:16	17.7	2	0	0	76.1	1	GRTF
16-Jun-2024	W10	426406	5408613	2	23:04	23:09	18.4	2	0	0	76.1	3	mine, GRTF
16-Jun-2024	W11	427699	5407845	2	23:21	23:26	17.4	2	0	0	76.1	2	mine, GRTF
16-Jun-2024	W12	427701	5406983	2	23:34	23:39	17.3	2	0	0	76.1	2	mine
16-Jun-2024	W27	421114	5410257	2	22:27	22:32	17.8	2	0	0	76.1	1	GRTF
16-Jun-2024	W28	422002	5410222	2	22:20	22:25	17.9	2	0	0	76.1	2	GRTF, mine
16-Jun-2024	W29	421522	5409758	2	22:02	22:07	18.1	2	0	0	76.1	1	GRTF
16-Jun-2024	W30	421516	5409255	2	21:54	21:59	18.9	3	0	0	76.1	1	GRTF
16-Jun-2024	W38	427204	5406910	2	23:41	23:46	17.4	2	0	0	76.1	2	mine
16-Jun-2024	W39	426651	5406909	2	23:48	23:52	17.2	2	0	0	76.1	2	mine
16-Jun-2024	W40	427709	5407434	2	23:27	23:32	17.0	2	0	0	76.1	2	mine

Date	Station ID	Easting	Northing	Rnd	Start Time	End Time	Temp °C	Wind (Beaufort)	Cloud Cover (%)	Precip	Moon Visible (%)	Noise Disturbance	Noise Comments
16-Jun-2024	W41	427706	5408300	2	23:13	23:18	18.4	2	0	0	76.1	2	mine
16-Jun-2024	W44	427057	5408523	2	22:57	23:02	18.7	2	0	0	76.1	3	mine
16-Jun-2024	W49	420302	5410254	2	22:34	22:39	17.8	2	0	0	76.1	1	GRTF, mine
17-Jun-2024	W01	419424	5413534	2	21:55	22:00	19.0	2	1	0	84.1	2	mine, GRTF
17-Jun-2024	W02	419734	5413014	2	22:03	22:07	19.6	2	2	0	84.1	2	mine, GRTF
17-Jun-2024	W03	419730	5412335	2	22:11	22:16	19.4	2	2	0	84.1	2	mine, GRTF
17-Jun-2024	W05	419714	541781	2	22:36	22:41	19.9	2	2	0	84.1	1	mine, GRTF
17-Jun-2024	W06	421570	5410599	3	23:03	23:07	19.1	2	2	0	84.1	2	mine, GRTF, AMTO
17-Jun-2024	W10	426406	5408613	3	23:55	0:00	17.9	2	0	0	84.1	2	wind, mine, GRTF
17-Jun-2024	W25	419450	5411862	2	22:22	22:27	20.3	2	2	0	84.1	1	mine
17-Jun-2024	W26	420302	5410254	2	22:30	22:35	20.2	2	2	0	84.1	1	mine, GRTF
17-Jun-2024	W27	421114	5410257	3	22:55	23:00	19.5	2	2	0	84.1	1	wind
17-Jun-2024	W28	422002	5410227	3	23:10	23:15	18.7	2	2	0	84.1	2	AMTO, GRTF, mine
17-Jun-2024	W29	421522	5409758	3	23:18	23:23	19.1	2	2	0	84.1	1	AMTO, GRTF, mine
17-Jun-2024	W30	421516	5409255	3	23:24	23:29	18.6	1	2	0	84.1	1	AMTO, GRTF, mine
17-Jun-2024	W44	427057	5408523	3	23:48	23:53	18.3	2	1	0	84.1	2	wind, mine, GRTF
17-Jun-2024	W49	420302	5410254	3	22:48	22:53	19.6	1	2	0	84.1	1	GRTF, mine, AMTO
18-Jun-2024	W07	423761	5406972	2	0:43	0:52	17.5	3	1	0	84.1	2	wind, GRTF
18-Jun-2024	W08	424846	5406943	2	0:20	0:25	17.5	2	0	0	84.1	2	wind
18-Jun-2024	W09	426033	5406908	2	0:08	0:13	17.8	2	0	0	84.1	1	wind, mine
18-Jun-2024	W11	427699	5407845	3	0:55	0:00	16.2	1	3	0	90.9	2	mine, GRTF, AMTO
18-Jun-2024	W13	428051	5408490	2	0:43	0:47	16.3	1	3	0	90.9	2	mine, BOCH, AMTO, GRTF
18-Jun-2024	W14	429011	5408489	2	0:31	0:36	16.0	1	3	0	90.9	1	mine, GRTF
18-Jun-2024	W15	429863	5408487	2	0:19	0:24	15.8	1	3	0	90.9	1	mine, BOCH
18-Jun-2024	W16	431009	5408460	2	0:07	0:12	15.9	0	3	0	90.9	1	mine, AMTO, GRTF
18-Jun-2024	W17	431174	5409737	2	23:47	23:52	17.2	0	3	0	90.9	1	mine, AMTO
18-Jun-2024	W18	431192	5411023	2	23:35	23:40	18.1	1	3	0	90.9	1	highway
18-Jun-2024	W19	424835	5414315	2	22:23	22:27	18.0	1	3	0	90.9	1	wind
18-Jun-2024	W20	424801	5412022	2	21:55	22:00	18.2	1	3	0	90.9	1	mine
18-Jun-2024	W21	423975	5414517	2	22:56	23:01	16.5	1	3	0	90.9	1	GRTF, AMTO
18-Jun-2024	W22	423842	5415466	2	23:12	23:17	17.6	1	3	0	90.9	1	GRTF, AMTO

Date	Station ID	Easting	Northing	Rnd	Start Time	End Time	Temp °C	Wind (Beaufort)	Cloud Cover (%)	Precip	Moon Visible (%)	Noise Disturbance	Noise Comments
18-Jun-2024	W23	424791	5413288	2	22:08	22:13	18.1	1	3	0	90.9	1	SPPE
18-Jun-2024	W24	424474	5415310	2	22:37	22:42	16.9	2	3	0	90.9	1	wind
18-Jun-2024	W31	423813	5414943	3	23:05	23:10	17.3	1	3	0	90.9	1	GRTF, AMTO
18-Jun-2024	W32	424451	5414440	2	22:49	22:54	16.3	1	3	0	90.9	1	GRTF, AMTO
18-Jun-2024	W33	424537	5414827	2	22:31	22:36	17.4	2	3	0	90.9	1	wind
18-Jun-2024	W34	424792	5413787	2	22:15	22:20	18.4	1	3	0	90.9	0	
18-Jun-2024	W35	424830	5412664	2	22:02	22:07	18.3	1	3	0	90.9	1	mine
18-Jun-2024	W36	424295	5406969	2	0:37	0:42	16.9	2	0	0	84.1	1	GRTF
18-Jun-2024	W37	425453	5406928	2	0:14	0:19	17.9	2	0	0	84.1	1	wind, mine
18-Jun-2024	W41	427706	5408300	3	0:48	0:53	16.4	1	3	0	90.9	2	mine, BOCH, AMTO
18-Jun-2024	W42	428555	5408496	2	0:37	0:42	16.3	1	3	0	90.9	1	mine
18-Jun-2024	W43	429502	5408492	2	0:30	0:35	16.2	1	3	0	90.9	1	mine, SPPE
18-Jun-2024	W45	430503	5408476	2	0:13	0:17	15.4	0	3	0	90.9	1	mine, AMTO, GRTF
18-Jun-2024	W46	431170	5408942	2	0:00	0:05	16.2	1	3	0	90.9	1	highway, AMTO
18-Jun-2024	W47	431188	5409339	2	23:54	23:59	16.8	1	3	0	90.9	1	mine, AMTO
18-Jun-2024	W48	431178	5410330	2	23:41	23:46	17.7	1	3	0	90.9	1	BOCH
18-Jun-2024	W50	424444	5407453	2	0:27	0:32	17.1	2	0	0	84.1	2	wind
19-Jun-2024	W12	427701	5406983	3	0:07	0:12	15.5	1	3	0	90.9	1	mine, BOCH, GRTF, AMTO
19-Jun-2024	W19	424835	5414315	3	22:43	22:47	13.9	0	0	0	96	2	GRTF, mine
19-Jun-2024	W20	424801	5412022	3	23:49	23:54	13.0	0	0	0	96	3	mine
19-Jun-2024	W21	423975	5414517	3	22:28	22:33	14.2	0	0	0	96	1	mine, GRTF
19-Jun-2024	W22	423842	5415466	3	22:00	22:05	16.0	1	0	0	96	1	GRTF, mine
19-Jun-2024	W23	424791	5413288	3	23:37	23:42	13.3	0	0	0	96	2	mine
19-Jun-2024	W24	424474	5415310	3	22:55	23:00	13.1	0	0	0	96	1	mine, GRTF
19-Jun-2024	W31	423813	5414943	3	22:19	22:24	15.2	0	0	0	96	1	GRTF, mine
19-Jun-2024	W32	424451	5414440	3	22:35	22:40	13.9	0	0	0	96	2	GRTF
19-Jun-2024	W33	424537	5414827	3	22:45	22:50	13.5	0	0	0	96	1	mine, GRTF
19-Jun-2024	W34	424792	5413787	3	23:25	23:30	12.8	0	0	0	96	1	mine
19-Jun-2024	W35	424830	5412664	3	23:43	23:48	13.2	0	0	0	96	2	mine
19-Jun-2024	W40	427709	5407434	3	0:01	0:06	15.9	1	3	0	90.9	2	mine, GRTF, wind
20-Jun-2024	W01	419424	5413534	3	21:53	21:58	19.9	0	0	0	96	1	mine, GRTF

Date	Station ID	Easting	Northing	Rnd	Start Time	End Time	Temp °C	Wind (Beaufort)	Cloud Cover (%)	Precip	Moon Visible (%)	Noise Disturbance	Noise Comments
20-Jun-2024	W02	419734	5413014	3	21:59	22:04	19.8	0	0	0	96	2	GRTF, mine
20-Jun-2024	W03	419730	5412335	3	22:05	22:10	19.9	0	0	0	96	1	GRTF, mine
20-Jun-2024	W05	419714	541781	3	22:24	22:29	15.1	0	0	0	96	2	GRTF, BOCH
20-Jun-2024	W07	423761	5406972	3	22:35	22:40	14.8	0	0	0	96	1	GRTF
20-Jun-2024	W08	424846	5406943	3	23:02	23:07	15.0	1	0	0	96	1	mine, GRTF
20-Jun-2024	W09	426033	5406908	3	23:15	23:20	13.6	1	0	0	96	2	GRTF, mine, AMTO
20-Jun-2024	W13	428051	5408490	3	1:12	1:17	11.0	1	0	0	96	2	mine, BOCH
20-Jun-2024	W14	429011	5408489	3	0:59	1:04	11.9	1	0	0	96	2	mine
20-Jun-2024	W15	429863	5408487	3	0:47	0:52	12.4	0	0	0	96	1	mine, GRTF, AMTO
20-Jun-2024	W16	431009	5408460	3	0:34	0:39	13.0	0	0	0	96	1	mine, GRTF, AMTO
20-Jun-2024	W17	431174	5409737	3	1:16	0:21	13.1	0	0	0	96	1	mine, BOCH
20-Jun-2024	W18	431192	5411023	3	0:03	0:08	12.7	0	0	0	96	1	highway
20-Jun-2024	W25	419450	5411862	3	22:11	22:16	17.9	0	0	0	96	1	GRTF, mine
20-Jun-2024	W26	420302	5410254	3	22:17	22:22	15.6	0	0	0	96	1	GRTF, BOCH
20-Jun-2024	W36	424295	5406969	3	22:46	22:51	15.0	0	0	0	96	1	GRTF, mine
20-Jun-2024	W37	425453	5406928	3	23:09	23:14	13.9	1	0	0	96	2	mine, GRTF
20-Jun-2024	W38	427204	5406910	3	1:19	1:24	10.7	1	0	0	96	2	mine, BOCH, AMTO
20-Jun-2024	W39	426651	5406909	3	1:25	1:30	11.1	0	0	0	96	2	mine, BOCH, GRTF, AMTO
20-Jun-2024	W42	428555	5408496	3	1:06	1:11	11.4	1	0	0	96	2	mine, BOCH
20-Jun-2024	W43	429502	5408492	3	0:54	0:59	12.0	0	0	0	96	1	mine, AMTO
20-Jun-2024	W45	430503	5408476	3	0:41	0:46	12.7	0	0	0	96	1	mine, GRTF, AMTO
20-Jun-2024	W46	431170	5408942	3	0:27	0:32	12.8	0	0	0	96	1	mine, BOCH
20-Jun-2024	W47	431188	5409339	3	0:22	0:27	13.0	0	0	0	96	1	mine, BOCH
20-Jun-2024	W48	431178	5410330	3	0:10	0:15	13.0	0	0	0	96	1	mine
20-Jun-2024	W50	424444	5407453	3	22:54	22:59	15.1	0	0	0	96	2	GRTF, mine

Noise Disturbance: 0-None, 1 -Slight, 2-Moderate, 3- High, 4- Excessive
Precipitation: 0-None 1-Haze/Fog 2-Drizzle 3-Rain
Sky/Cloud Cover: 0 Clear (0-25%) 1 Mostly Clear (25-50%) 2 Mostly Cloudy (50-75%) 3 Cloudy (75-100%)
Wind: 0-Calm (0-2km/h) 1-Light air (2-6km/hr) 2 Light breeze (6-11km/hr) 3-Gentle breeze (12-19km/h)
AMTO: American Toad, BOCH: Boreal Chorus Frog, GRTF: Gray Tree Frog, SPPE: Spring Peeper

Appendix 5. Eastern Whip-poor-will observations at New Gold RRM, 2024.

Round	Date	Station ID	EWPW ID	Repeat Bird (y/n)	0-3 min	3-5 min	Est. Distance (m)	Estimated Direction	Projected Easting	Projected Northing	Comments
1	19-May-2024	W22	W22-01-R1	n	y	y	50	190	423832	5415422	Counter singing
1	19-May-2024	W22	W22-01-R1	n	y	y	50	190	423832	5415422	Counter singing
1	19-May-2024	W22	W22-02-R1	n	y	y	200	310	423613	5415665	Counter singing
1	19-May-2024	W22	W22-02-R1	n	y	y	200	310	423613	5415665	Counter singing
1	19-May-2024	W22	W22-03-R1	n	y	y	500	100	424335	5415372	
1	19-May-2024	W31	W31-01-R1	y	y	y	500	350	423734	5415436	
1	19-May-2024	W31	W31-02-R1	n	y	y	500	320	423495	5415328	
1	19-May-2024	W31	W31-03-R1	n	y	y			424280	5415000	only heard from triangulation point
1	19-May-2024	W21	W21-02-R1	y	y		1000	340	423744	5415463	
1	19-May-2024	W21	W21-01-R1	y	y		750	320	423596	5415098	
1	19-May-2024	W32	W32-01-R1	y	y	y	1000	355	424382	5415438	
1	19-May-2024	W19	W19-01-R1	n	y		500	330	424594	5414751	
1	19-May-2024	W33	W33-01-R1	y		y	200	210	424432	5414657	
1	19-May-2024	W24	W24-01-R1	n	y	y	600	312	424066	5415628	
1	19-May-2024	W24	W24-03-R1	y	y	y	600	285	423921	5415387	
1	19-May-2024	W35	W35-01-R1	n		y	500	358	424820	5413165	
1	20-May-2024	W07	W07-01-R1	n	y	y	50	30	423787	5407015	
1	20-May-2024	W07	W07-02-R1	n	y	y	500	5	423812	5407468	
1	20-May-2024	W07	W07-03-R1	n	y	y	500	20	423939	5407438	
1	20-May-2024	W07	W07-04-R1	n	y	y	500	80	424252	5407052	
1	20-May-2024	W36	W36-01-R1	y	y	y	300	300	424035	5407120	
1	20-May-2024	W36	W36-02-R1	y	y	y	500	310	423919	5407299	
1	20-May-2024	W36	W36-03-R1	n	y	y	300	380	424148	5407232	
1	20-May-2024	W36	W36-04-R1	n	y	y	500	40	424622	5407347	
1	20-May-2024	W50	W50-01-R1	y	y	y	50	10	424453	5407503	
1	20-May-2024	W08	W08-01-R1	n	y	y	300	60	425108	5407088	
2	18-Jun-2024	W50	W50-01-R2	n	y		200	170	424474	5407252	

Round	Date	Station ID	EWPW ID	Repeat Bird (y/n)	0-3 min	3-5 min	Est. Distance (m)	Estimated Direction	Projected Easting	Projected Northing	Comments
2	18-Jun-2024	W36	W36-01-R2	y	y	y	100	65	424387	5407009	
2	18-Jun-2024	W07	W07-01-R2	n	y	y	250	60	423980	5407093	
2	18-Jun-2024	W35	W35-01-R2	n	y		1000	358	424811	5413662	
2	18-Jun-2024	W23	W23-01-R2	n	y		1000	330	424305	5414157	
2	18-Jun-2024	W34	W34-01-R2	n	y		1000	340	424467	5414731	
2	18-Jun-2024	W24	W24-01-R2	n	y	y	500	280	424305	5415280	
2	18-Jun-2024	W31	W31-01-R2	n	y		500	100	424303	5414846	
2	18-Jun-2024	W22	W22-01-R2	n	y	y	50	260	423792	5415458	
3	19-Jun-2024	W22	W22-01-R3	n	y	y	50	240	423799	5415442	Flew over truck
3	19-Jun-2024	W22	W22-02-R3	n	y	y	500	330	423597	5415903	
3	19-Jun-2024	W22	W22-03-R3	n	y	y	500	220	423513	5415092	
3	19-Jun-2024	W22	W22-04-R3	n		y			424085	5415683	heard only from triangulation location
3	19-Jun-2024	W31	W31-01-R3	y	y	y	300	20	423956	5415315	
3	19-Jun-2024	W31	W31-02-R3	y	y	y	500	315	423466	5415299	
3	19-Jun-2024	W21	W21-01-R3	n	y	y	50	150	424096	5414475	
3	19-Jun-2024	W21	W21-02-R3	y	y	y	1000	340	423746	5415465	
3	19-Jun-2024	W32	W32-01-R3	n		y	200	184	424434	5414239	
3	19-Jun-2024	W19	W19-01-R3	y	y		300	275	424501	5414341	
3	19-Jun-2024	W33	W33-01-R3	y	y		500	200	424358	5414361	
3	19-Jun-2024	W33	W33-02-R3	y	y	y	500	280	423553	5415018	
3	19-Jun-2024	W24	W24-01-R3	y	y	y	750	260	423767	5415120	
3	19-Jun-2024	W24	W24-02-R3	y	y	y	1000	180	424096	5414475	
3	19-Jun-2024	W24	W24-03-R3	n	y	y	1000	240	423629	5414748	
3	19-Jun-2024	W24	W24-04-R3	y	y	y	750	300	423859	5415624	
3	19-Jun-2024	W24	W24-05-R3	y	y	y	1000	205	424075	5414347	
3	20-Jun-2024	W07	W07-01-R3	n	y	y	50	129	423798	5406942	Seen 20 m E singing on road
3	20-Jun-2024	W07	W07-02-R3	n	y	y	300	9	423808	5407265	

Round	Date	Station ID	EWPW ID	Repeat Bird (y/n)	0-3 min	3-5 min	Est. Distance (m)	Estimated Direction	Projected Easting	Projected Northing	Comments
3	20-Jun-2024	W36	W36-01-R3	n	y	y	200	7	424322	5407166	
3	20-Jun-2024	W50	W50-01-R3	y	y	y	300	205	424313	5407182	
3	20-Jun-2024	W50	W50-02-R3	n	y	y	500	143	424737	5407052	
3	20-Jun-2024	W37	W37-01-R3	y	y	y	500	290	424985	5407108	
3	20-Jun-2024	W08	W08-01-R3	y	y	y	100	320	424783	5407020	

Appendix 6. 2024 Eastern Whip-poor-will sound monitoring report (Independent Environmental Consultants.)

2024 Sound Monitoring Report: Eastern Whip-poor-will Habitat
New Gold Inc.

Prepared for:

5967 Highway 11/71, P.O. Box 5
Emo, Ontario
P0W 1E0

Prepared by:

Independent Environmental Consultants
582 St. Clair Avenue West, Suite 221
Toronto, Ontario, M6C 1A6

IEC Project No.: SX24-0022

March 2025

DOCUMENT APPROVAL

REPORT PREPARATION

Position	Name	Date
Senior Environmental Engineer	Nick Shinbin	26Mar25

TECHNICAL REVIEW

Position	Name	Date
Vice President	Paul Kirby	26Mar25

MANAGEMENT REVIEW

Position	Name	Date
Vice President	Paul Kirby	26Mar25

ORIGINAL SIGNED: UNCONTROLLED IF PRINTED

VERSION CONTROL

Rev. No.	Description	Prepared by	Date
0.0	Draft report – for internal review	NS/PK	29Nov24
1.0	Updated draft for New Gold review	NS/PK	4Dec24
1.1	Final report	PK	26Mar25

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APPENDICES

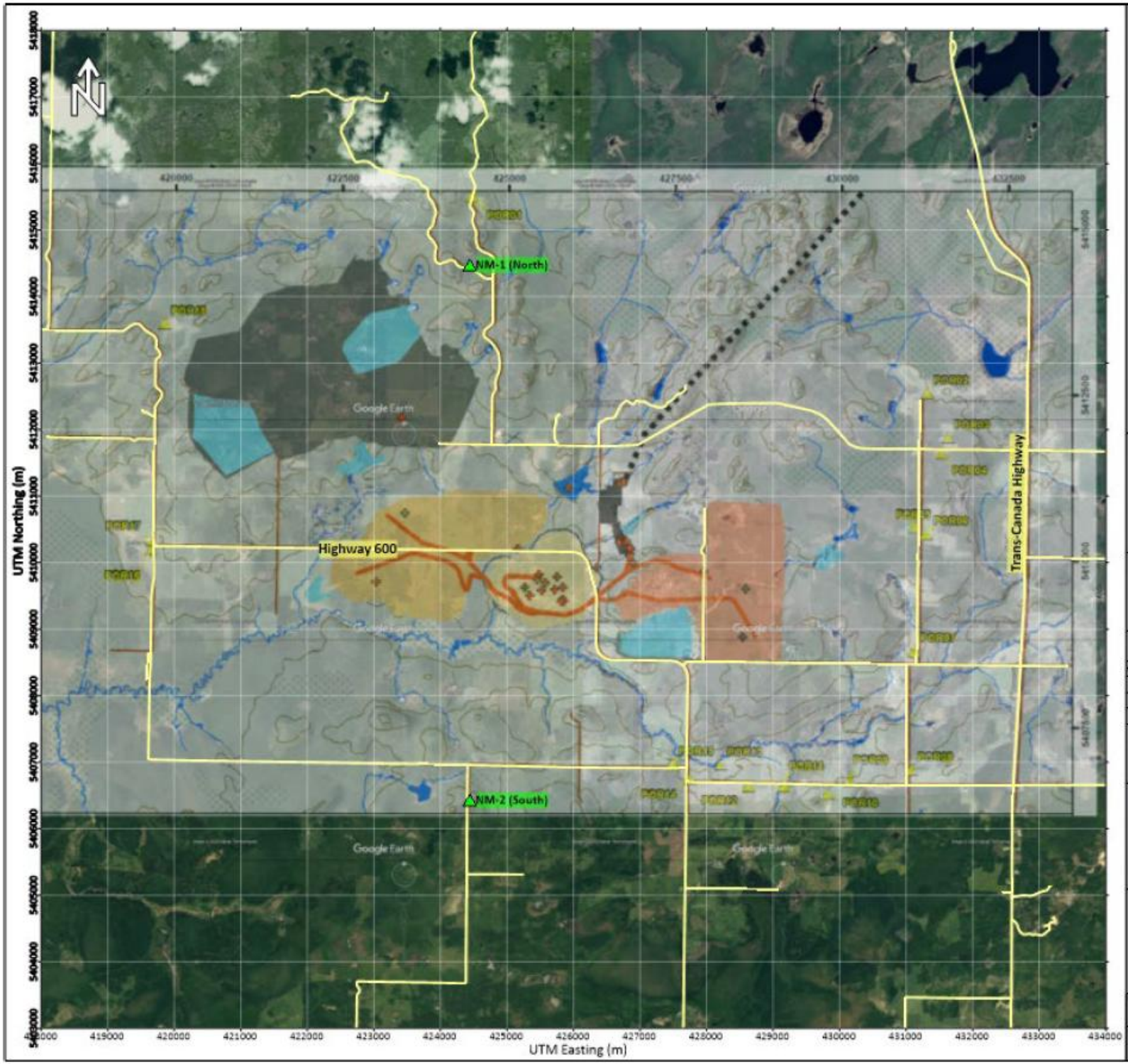
1.0 INTRODUCTION

Independent Environmental Consultants (IEC) was retained by New Gold Inc. to assist in the completion of an ambient sound monitoring study in the vicinity of the Rainy River Mine, which is part of an acoustic auditing program that is required under the *Endangered Species Act*, as stipulated by the Ontario Ministry of Natural Resources (MNR) in an *Overall Benefits Permit* issued to the New Gold Rainy River Mine (Permit No. FF-C-001-14). The permit is under the purview of the Ontario Ministry of Environment, Conservation and Parks (MECP). In accordance with the permit, sound level monitoring is to take place at locations identified as known habitat for Eastern Whip-poor-will (*Antrostomus vociferus*). This report provides an overview of the operations at the Rainy River Mine site, details of the surrounding area, MECP requirements pertaining to the Eastern Whip-poor- will habitat sound monitoring program, as well as details and results of the monitoring program.

2.0 SITE AND SURROUNDING AREA

The Rainy River Mine is located approximately 65 km northwest of Fort Frances in northwestern Ontario and consists of an open-pit and underground mine as well as an ore processing facility located on-site. Other site infrastructure includes the tailings management area, various stockpiles (e.g., overburden, waste rock), on-site roads for access and haulage of ore material, and buildings for supporting operations (e.g., administration, maintenance). Operations at the site in 2024 included blasting, dam construction, crushing, loading, hauling, dumping, drilling and rock placement.

The lands surrounding the mine site are generally forested areas, with some farmlands throughout. Of particular relevance to this study is the presence of an Eastern Whip-poor-will habitat adjacent to the mine lands. The Eastern Whip-poor-will are considered a Threatened Species per *Ontario Regulation 230/08* under the *Endangered Species Act* and are known to be particularly sensitive to noise. With regards to sources of noise that are present in the area other than those associated with mine operations, it should be noted that there are several highways in the area including the Trans-Canada Highway, Highway 600, and Highway 617. There is also a CN rail line located approximately 16 km to the south of the Eastern Whip-poor-will habitat. Refer to Figure 1 for an illustration of the site location in relation to the relevant features of the surrounding area.



LEGEND:

▲ Noise Monitoring Location

NOTES:

SCALE:

REVISIONS:

No.	Date	By	Revision

REFERENCE:

Basemap: Google Earth
Coordinate System: UTM Zone 15, WGS84

New Gold Inc.
Rainy River Mine

Eastern Whip-poor-will Habitat
Noise Monitoring Locations

Drawn By:	Approved By:	Figure No.:
NZS	PLK	1
Date: October 2024	Project No.: SX24-0022	

3.0 REGULATORY CONTEXT

As noted previously, there is an Eastern Whip-poor-will habitat adjacent to the mine lands, which have been identified by the MNR as a Threatened Species. As a result, the MNR have issued an *Overall Benefits Permit* (No. FF-C-001-14), which is now controlled by the MECP, to New Gold for the Rainy River Mine. This permit outlines measures for the protection of this species. Included in the permit is a requirement to complete periodic acoustic monitoring at the Eastern Whip-poor-will habitat and determine whether activity at the mine site results in sound levels exceeding 50 dBA (on a 1-hour basis).

The monitoring requirements differ depending on the stage of activity at the site (e.g., construction, operations). During construction activity, the monitoring was required on an annual basis, while during operations the monitoring is to be completed in 2-year intervals. As noted in Section 2.0, the mine was in the Operations stage at the time that the monitoring was completed. It should be noted that the permit stipulates that acoustic monitoring is to occur in the first week of May as well as in June; however, the timing for the 2024 acoustic audit was delayed. The sound monitoring data discussed in this report was collected at the end of July and into August. According to the MECP, the nesting season of the Eastern Whip-poor-will may extend from mid-May to the end of July (1). Whip-poor-will calls were audible in the sound recordings collected as part of this project as late as August 19th, 2024.

4.0 MEASUREMENT PROGRAM

As required by the Permit, the sound monitoring was conducted at two locations, representing the "north" and the "south" Eastern Whip-poor-will habitats (see Figure 1). The north and south monitors are identified as NM-1 and NM-2, respectively, in the discussion in this report and the coordinates are provided in Table 1. Due to a memory write issue, data was not available for the early part of the campaign at NM-2 (south). Operationally, there has been exploration drilling occurring south of the pit since April 2024.

Table 1: Noise Monitoring Locations

Monitor ID	Monitor Location	Monitor Coordinates (UTM, Zone 15)		Monitoring Period
		Easting (m)	Northing (m)	
NM-1	Noise Monitoring Location 1 (North)	424444	5414473	Jul. 22 – Sept. 6, 2024
NM-2	Noise Monitoring Location 2 (South)	424444	5406426	Aug. 8 – Sept. 6, 2024

The measurement equipment was deployed in the field by New Gold staff, with technical input, guidance and data analysis provided by IEC. Sound levels were measured on a continuous 15-minute basis throughout the measurement program, using Larson Davis 831C sound level meters. To assist in the analysis, the meters were also configured with an "event trigger" that provided more detailed sound level information in instances where sound levels above 50 dBA were measured. This included sound recording to assist with identifying the source of noise that caused the sound level of 50 dBA to be exceeded (though it should be noted that an instantaneous exceedance of 50 dBA does not necessarily mean that the energy equivalent for the entire hour will exceed 50 dBA). In instances where adverse meteorological conditions, or sounds of nature (e.g., birdsong) were found to have caused the elevated sound levels, the associated data point was discarded as unrepresentative of sound from operations at the mine site.

New Gold operates a meteorological station at the Rainy River site, which collected data concurrently with the sound level meters. As sounds due to certain meteorological events may result in elevated sound levels, ambient noise measurement data is subject to validation to ensure that data points associated with unrepresentative conditions are removed from the analysis. The Ontario MECP outlines requirements for noise monitoring programs, including meteorological considerations, in Publications NPC-102 (2) and NPC-103 (3). In addition, the sound level meter manufacturer also outlines limitations regarding the performance of the instrument under certain meteorological conditions (4). The meteorological conditions that were applied in the validation of the measurement data are summarized in Table 2.

Table 2: Parameters for Meteorological Validation

Meteorological Parameter	Limiting Condition
Temperature	-10° C to +50°C
Relative Humidity [1]	25% to 90%
Wind Speed	<25 km/hr
Precipitation	No precipitation during measurement
Note: [1] Based on feedback from the equipment supplier, the adjustment for sound levels collected above the ceiling relative humidity level of 90% is relatively insignificant and data would only need to be discarded if there was condensation occurring. As there did not appear to be any anomalous data associated with the sound levels at humidity levels above 90% these points were kept for a more complete data set.	

The sound level meters were last factory calibrated to an NIST-traceable standard in April 2024. In addition, the sound level meters were each calibrated in the field before and after the program, using a handheld CAL200 calibration device. The field calibrations did not result in any significant adjustment. The meters were deployed with environmental protection and were sited in accordance with NPC-102/103, which requires that the microphone be located greater than 1 m above the ground and greater than 1 m away from any reflecting surface. The environmental protection included a wind screen equipped with bird spikes (to deter birds from perching on the microphone), and a heated preamplifier to control the effects of humidity. The sound level meter was stored in a weather-proof hard case, with the preamplifier and microphone attached to a tripod via a microphone extension cable from the hard case. At the completion of the monitoring period, all sound level data and meteorological data was compiled and analyzed for comparison to the 50 dBA sound level threshold.

5.0 MEASUREMENT RESULTS

As noted previously, the sound level meters were each configured to log sound levels on a continuous 15- minute basis. This time step allowed for additional insights on what was occurring within each hour; however, ultimately the sound levels were log-averaged on an hourly basis for comparison to the meteorological data (for validation) and to the sound threshold of 50 dBA.

5.1 NORTH STATION (NM-1)

The campaign at the north station (NM-1) ran for 47 days, resulting in 1,098 logged hourly measurements. Upon comparison to the meteorological data set, a total of 80 hours were removed due to rain, thunder and/or high

winds, leaving 1,018 hours of valid data. This is well above the minimum number of hours for an ambient noise monitoring study of 48 hours as stipulated by the MECP in its Publication NPC-300.

After the meteorological validation, it was found that 19 hourly sound levels exceeded the threshold of 50 dBA at NM-1. The sound recordings collected as a result of the event trigger were reviewed to determine whether sound attributable to mine activity was occurring; however, for 12 of the 19 hours it was found that the sounds were dominated either by the onset of thunder prior to a rain event, non-target wildlife near the meter, or New Gold staff present to check on the meters. The audio files for the remaining seven hours were inconclusive as to the potential sources as only static was audible. These seven hours represent 0.7% of the data collected in the 47-day campaign. The final results of the first monitoring campaign are summarized in Table 3.

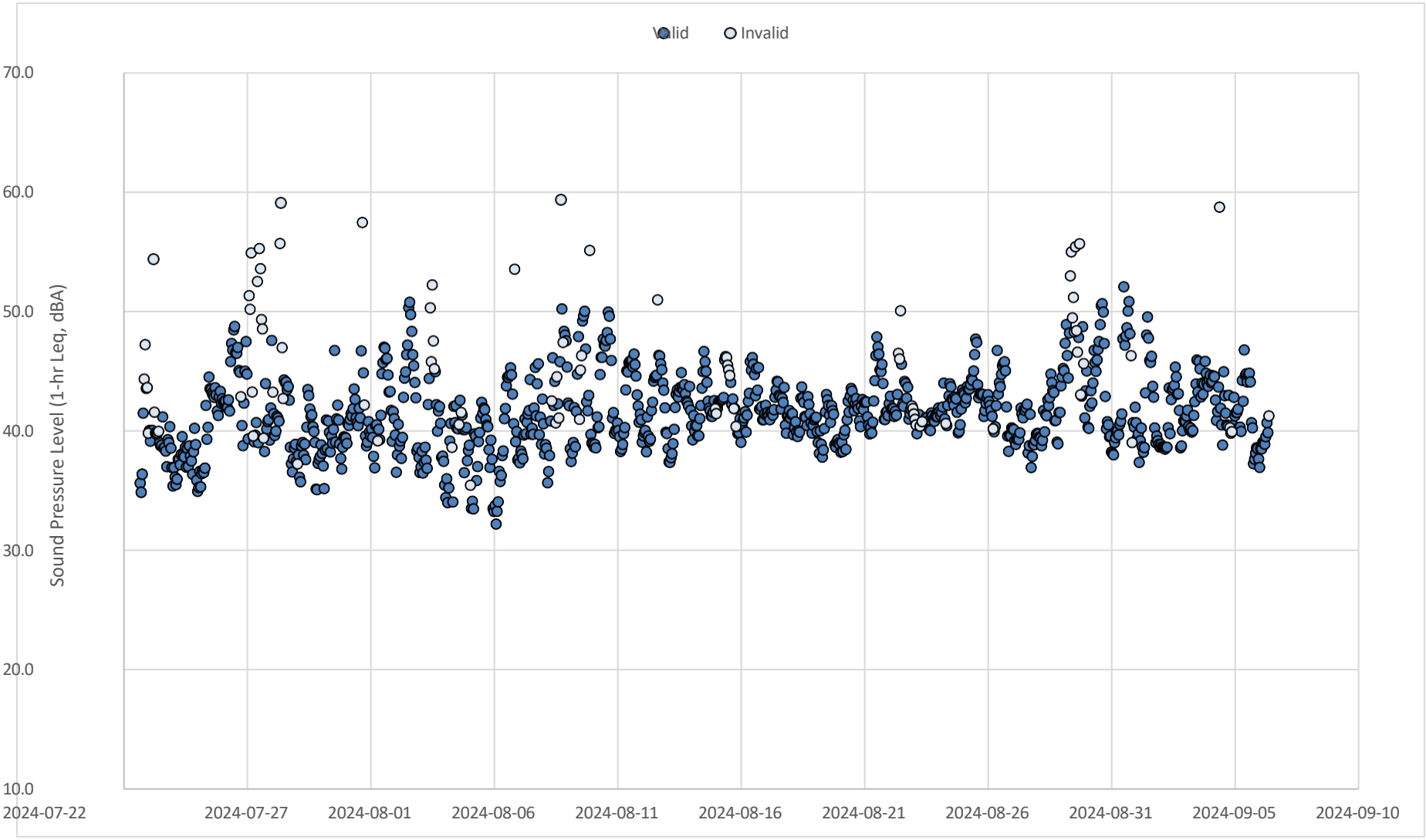
A full summary of the hourly monitoring data is provided in Figure 2, inclusive of the points that were invalidated for completeness of record (the invalid data points are identified using a different marker than the valid points). A corresponding data table is provided in Appendix A.

Table 3: Summary of Sound Level Data at North Station (NM-1)

Date	No. Exceeding 50 dBA		Period		
	Before Validation	After Validation	1-hr Leq (dBA)		
			Min	Max	Average
22-Jul-24	0	0	34.9	41.5	37.1
23-Jul-24	1	0	36.9	41.2	39.0
24-Jul-24	0	0	35.4	40.2	37.5
25-Jul-24	0	0	34.9	44.5	40.4
26-Jul-24	0	0	38.8	48.7	44.3
27-Jul-24	6	0	38.3	44.7	40.6
28-Jul-24	2	0	36.5	47.5	41.1
29-Jul-24	0	0	35.1	43.4	38.8
30-Jul-24	0	0	35.2	46.7	39.4
31-Jul-24	1	0	38.7	46.7	41.2
01-Aug-24	0	0	36.9	47.0	42.0
02-Aug-24	2	**2**	36.5	**50.7**	42.8
03-Aug-24	2	0	36.5	44.9	39.5
04-Aug-24	0	0	34.0	42.5	38.6
05-Aug-24	0	0	33.5	42.4	38.6
06-Aug-24	1	0	32.2	45.3	39.2
07-Aug-24	0	0	37.3	45.6	40.7
08-Aug-24	2	**1**	35.6	**50.2**	42.6
09-Aug-24	1	0	37.4	50.0	42.7

Date	No. Exceeding 50 dBA		Period		
	Before Validation	After Validation	1-hr Leq (dBA)		
			Min	Max	Average
10-Aug-24	0	0	38.6	49.9	43.6
11-Aug-24	0	0	38.3	46.4	42.6
12-Aug-24	1	0	38.2	46.3	42.2
13-Aug-24	0	0	37.3	44.9	41.5
14-Aug-24	0	0	39.2	46.6	42.0
15-Aug-24	0	0	39.8	45.9	42.2
16-Aug-24	0	0	39.0	46.1	42.6
17-Aug-24	0	0	39.8	44.1	42.0
18-Aug-24	0	0	39.5	43.7	41.1
19-Aug-24	0	0	37.8	43.0	40.2
20-Aug-24	0	0	38.2	43.5	41.2
21-Aug-24	0	0	39.7	47.8	42.9
22-Aug-24	1	0	41.0	45.6	42.4
23-Aug-24	0	0	39.8	41.5	40.8
24-Aug-24	0	0	39.8	44.0	42.0
25-Aug-24	0	0	41.2	47.7	43.6
26-Aug-24	0	0	38.3	46.7	42.4
27-Aug-24	0	0	36.9	42.2	39.9
28-Aug-24	0	0	38.7	44.7	41.2
29-Aug-24	5	0	41.1	48.9	45.7
30-Aug-24	2	**2**	39.5	**50.6**	44.4
31-Aug-24	2	**2**	38.0	**52.0**	43.2
01-Sep-24	0	0	37.4	49.5	41.7
02-Sep-24	0	0	38.5	45.3	41.0
03-Sep-24	0	0	39.9	45.9	42.8
04-Sep-24	1	0	38.8	44.9	42.4
05-Sep-24	0	0	37.2	46.7	41.5
06-Sep-24	0	0	36.9	40.7	39.0

Figure 2: Noise Monitoring Summary at NM-1



5.2 SOUTH STATION (NM-2)

The campaign at the south station (NM-2) ran for 30 days, resulting in 695 logged hourly measurements. The meteorological validation resulted in the removal of 42 hours, leaving 653 hours of valid data. This is well above the minimum number of hours for an ambient noise monitoring study of 48 hours as stipulated by the MECP in its Publication NPC-300.

After the meteorological validation, it was found that six hourly sound levels exceeded the threshold of 50 dBA at NM-2. The sound recordings collected as a result of the event trigger were reviewed to determine whether sound attributable to mine activity was occurring, and it was found that these exceedances were due to vehicle pass-bys near the meter. As such, these were discarded from the data set. The maximum one-hour valid sound level was 50.0 dBA, which meets the criterion. The final results of the first monitoring campaign are summarized in Table 4.

A full summary of the hourly monitoring data is provided in Figure 3, inclusive of the points that were invalidated for completeness of record (the invalid data points are identified using a different marker than the valid points). A corresponding data table is provided in Appendix A.

Table 4: Summary of Sound Level Data at South Station (NM-2)

Date	No. Exceeding 50 dBA		Period		
	Before Validation	After Validation	1-hr Leq (dBA)		
			Min	Max	Average
08-Aug-24	0	0	41.8	48.0	45.2
09-Aug-24	0	0	38.3	46.7	41.4
10-Aug-24	0	0	38.0	45.2	40.8
11-Aug-24	0	0	38.2	45.9	40.5
12-Aug-24	0	0	36.7	41.4	39.5
13-Aug-24	0	0	37.2	42.9	39.6
14-Aug-24	0	0	37.1	45.2	40.0
15-Aug-24	0	0	37.3	46.1	41.9
16-Aug-24	0	0	38.2	44.6	41.4
17-Aug-24	0	0	37.5	44.3	40.2
18-Aug-24	0	0	37.8	40.3	39.0
19-Aug-24	0	0	37.8	41.4	39.7
20-Aug-24	0	0	37.3	43.1	40.1
21-Aug-24	0	0	37.0	44.6	40.1
22-Aug-24	0	0	36.5	44.6	39.1
23-Aug-24	0	0	26.0	39.7	35.1
24-Aug-24	0	0	36.9	44.8	40.7

Date	No. Exceeding 50 dBA		Period		
	Before Validation	After Validation	1-hr Leq (dBA)		
			Min	Max	Average
25-Aug-24	0	0	38.9	47.8	41.9
26-Aug-24	0	0	38.8	41.9	40.3
27-Aug-24	0	0	37.8	42.4	40.6
28-Aug-24	0	0	39.5	46.1	42.6
29-Aug-24	9	0	37.0	50.0	43.9
30-Aug-24	0	0	36.9	44.5	40.9
31-Aug-24	3	0	37.6	49.0	42.0
01-Sep-24	3	0	34.8	45.8	38.0
02-Sep-24	0	0	33.7	41.2	37.1
03-Sep-24	0	0	39.0	45.4	41.3
04-Sep-24	0	0	37.3	44.1	40.1
05-Sep-24	0	0	38.1	45.7	41.3
06-Sep-24	0	0	40.3	46.4	41.6

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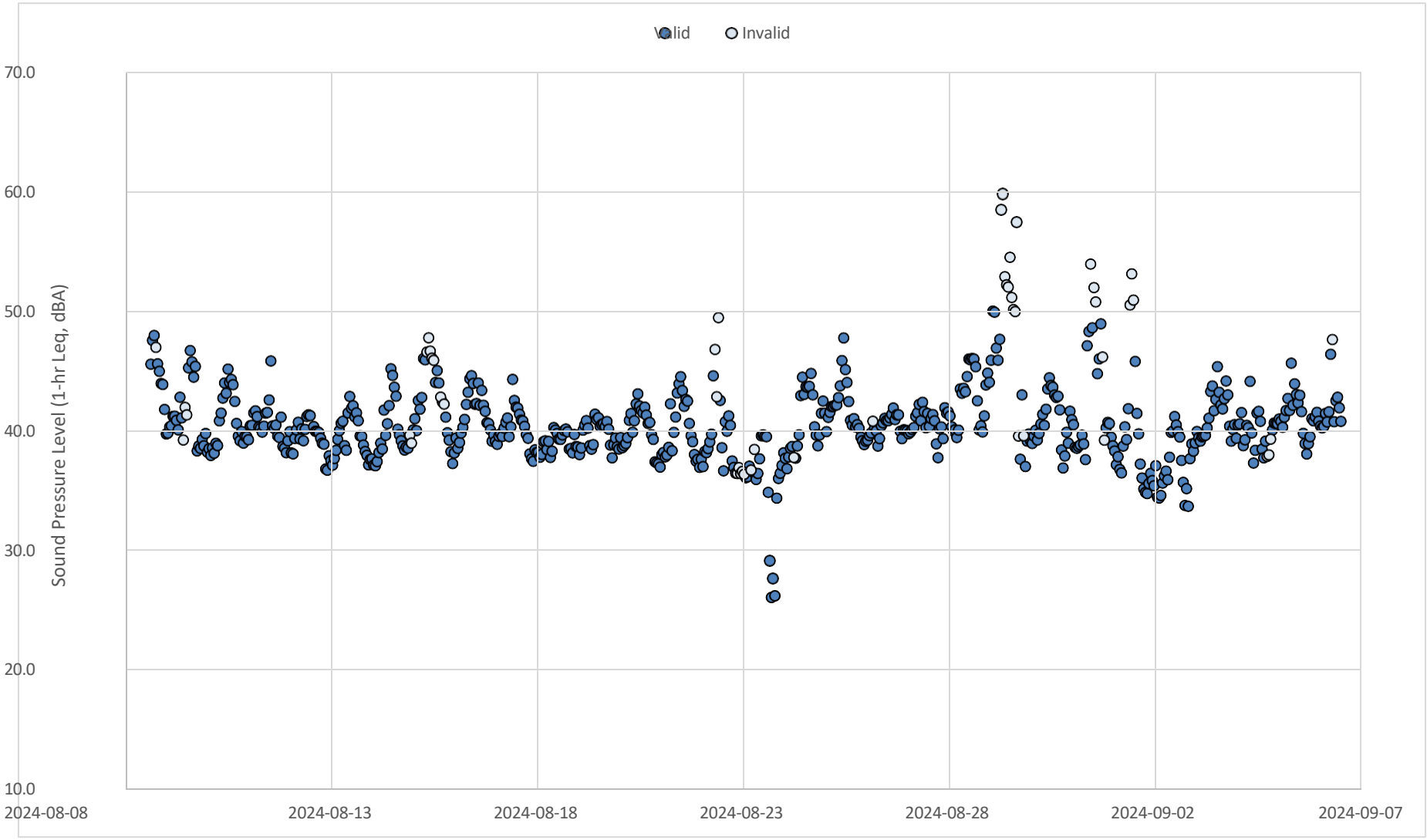
Figure 3: Noise Monitoring Summary at NM-2



6.0 CONCLUSIONS

In accordance with the *Overall Benefits Permit* issued to the New Gold Rainy River Mine (Permit No. FF-C-001-14), noise monitoring of the Eastern Whip-poor-will habitat in the vicinity of the Rainy River Mine was completed in 2024. While the permit specifically identifies that the monitoring take place during the first week of May and in June, measurements were completed in July and into August. It should be noted that the Ontario MECP has identified that nesting season for the Eastern Whip-poor-will typically extends into July. Whip-poor- will calls were audible in the audio recordings as late as August 19th, 2024.

Activities being completed at the Rainy River Mine during the measurement campaigns included blasting, dam construction, crushing, loading, hauling, dumping, drilling and rock placement. As per the Overall Benefits Permit, the noise monitoring is to indicate whether operations at the mine contribute to sound levels at the Eastern Whip-poor-will habitat at levels exceeding 50 dBA on a 1-hour basis (i.e., 1-hour Leq). The results of the measurements were first validated against concurrent meteorological measurement data, and then against sound recordings triggered by any exceedances of the 50 dBA threshold on an instantaneous basis. The resulting data sets for the campaigns were each well in excess of the minimum of 48 hours of measurement data required by the MECP for continuous measurement programs.

There were seven post-validation exceedances of 50 dBA at the North station and none at the South station during the 2024 campaign. Mine operations were not audible in the audio files in the hours that exceeded 50 dBA at the North station.

7.0 REFERENCES

1. **Ministry of the Environment, Conservation and Parks.** *Recovery Strategy for the Eastern Whip-poor-will (Antrostomus vociferus) in Ontario.* Peterborough : Ontario MECP, 2019.

2. **Ministry of Environment, Conservation and Parks.** *Publication NPC-102: Instrumentation.* Toronto : Ontario MECP, 1978.

3. —. *Publication NPC-103: Procedures.* Toronto : Ontario MECP, 1978.

4. **Larson Davis - A PCB Piezotronics Division.** *Larson Davis SoundAdvisor Model 831C Sound Level Meter Reference Manual.* Depew, NY : PCB Piezotronics, Inc., 2019.

INDEPENDENT ENVIRONMENTAL CONSULTANTS

Appendix A:

Sound Level Data Tables

North Station NM-1: Summary of Hourly Data (Campaign #1)

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
0	2024-07-22	7	22	16:00:00	D	35.6	OK		35.6	
4	2024-07-22	7	22	17:00:00	D	34.9	OK		34.9	
8	2024-07-22	7	22	18:00:00	D	36.3	OK		36.3	
12	2024-07-22	7	22	19:00:00	E	41.5	OK		41.5	
16	2024-07-22	7	22	20:00:00	E	44.3	Discard			44.3
20	2024-07-22	7	22	21:00:00	E	47.2	Discard			47.2
24	2024-07-22	7	22	22:00:00	E	43.5	Discard			43.5
28	2024-07-22	7	22	23:00:00	N	43.6	Discard			43.6
32	2024-07-23	7	23	00:00:00	N	39.8	Discard			39.8
36	2024-07-23	7	23	01:00:00	N	40.0	OK		40.0	
40	2024-07-23	7	23	02:00:00	N	39.1	OK		39.1	
44	2024-07-23	7	23	03:00:00	N	39.9	OK		39.9	
48	2024-07-23	7	23	04:00:00	N	40.0	OK		40.0	
52	2024-07-23	7	23	05:00:00	N	54.4	Discard			54.4
56	2024-07-23	7	23	06:00:00	N	41.6	Discard			41.6
60	2024-07-23	7	23	07:00:00	D	39.8	Discard			39.8
64	2024-07-23	7	23	08:00:00	D	39.7	Discard			39.7
68	2024-07-23	7	23	09:00:00	D	39.8	Discard			39.8
72	2024-07-23	7	23	10:00:00	D	39.9	Discard			39.9
76	2024-07-23	7	23	11:00:00	D	39.0	ND		39.0	
80	2024-07-23	7	23	12:00:00	D	38.7	ND		38.7	
84	2024-07-23	7	23	13:00:00	D	38.8	ND		38.8	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
88	2024-07-23	7	23	14:00:00	D	41.2	OK		41.2	
92	2024-07-23	7	23	15:00:00	D	38.5	OK		38.5	
96	2024-07-23	7	23	16:00:00	D	38.6	OK		38.6	
100	2024-07-23	7	23	17:00:00	D	38.3	ND		38.3	
104	2024-07-23	7	23	18:00:00	D	37.0	ND		37.0	
108	2024-07-23	7	23	19:00:00	E	39.3	ND		39.3	
112	2024-07-23	7	23	20:00:00	E	39.0	ND		39.0	
116	2024-07-23	7	23	21:00:00	E	40.3	ND		40.3	
120	2024-07-23	7	23	22:00:00	E	38.5	ND		38.5	
124	2024-07-23	7	23	23:00:00	N	36.9	ND		36.9	
128	2024-07-24	7	24	00:00:00	N	35.4	ND		35.4	
132	2024-07-24	7	24	01:00:00	N	36.9	ND		36.9	
136	2024-07-24	7	24	02:00:00	N	36.1	ND		36.1	
140	2024-07-24	7	24	03:00:00	N	35.5	ND		35.5	
144	2024-07-24	7	24	04:00:00	N	35.9	ND		35.9	
148	2024-07-24	7	24	05:00:00	N	37.6	ND		37.6	
152	2024-07-24	7	24	06:00:00	N	37.6	ND		37.6	
156	2024-07-24	7	24	07:00:00	D	37.1	ND		37.1	
160	2024-07-24	7	24	08:00:00	D	38.0	ND		38.0	
164	2024-07-24	7	24	09:00:00	D	39.5	ND		39.5	
168	2024-07-24	7	24	10:00:00	D	38.0	ND		38.0	
172	2024-07-24	7	24	11:00:00	D	37.8	ND		37.8	
176	2024-07-24	7	24	12:00:00	D	38.6	ND		38.6	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
180	2024-07-24	7	24	13:00:00	D	36.9	ND		36.9	
184	2024-07-24	7	24	14:00:00	D	38.5	ND		38.5	
188	2024-07-24	7	24	15:00:00	D	37.0	ND		37.0	
192	2024-07-24	7	24	16:00:00	D	38.7	ND		38.7	
196	2024-07-24	7	24	17:00:00	D	37.9	ND		37.9	
200	2024-07-24	7	24	18:00:00	D	37.5	ND		37.5	
204	2024-07-24	7	24	19:00:00	E	36.4	ND		36.4	
208	2024-07-24	7	24	20:00:00	E	38.2	ND		38.2	
212	2024-07-24	7	24	21:00:00	E	40.2	ND		40.2	
216	2024-07-24	7	24	22:00:00	E	38.8	ND		38.8	
220	2024-07-24	7	24	23:00:00	N	35.9	ND		35.9	
224	2024-07-25	7	25	00:00:00	N	34.9	ND		34.9	
228	2024-07-25	7	25	01:00:00	N	35.3	ND		35.3	
232	2024-07-25	7	25	02:00:00	N	36.6	ND		36.6	
236	2024-07-25	7	25	03:00:00	N	35.3	ND		35.3	
240	2024-07-25	7	25	04:00:00	N	36.4	ND		36.4	
244	2024-07-25	7	25	05:00:00	N	36.7	ND		36.7	
248	2024-07-25	7	25	06:00:00	N	36.5	ND		36.5	
252	2024-07-25	7	25	07:00:00	D	36.9	ND		36.9	
256	2024-07-25	7	25	08:00:00	D	42.1	ND		42.1	
260	2024-07-25	7	25	09:00:00	D	39.3	ND		39.3	
264	2024-07-25	7	25	10:00:00	D	40.3	ND		40.3	
268	2024-07-25	7	25	11:00:00	D	44.5	ND		44.5	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
272	2024-07-25	7	25	12:00:00	D	43.5	ND		43.5	
276	2024-07-25	7	25	13:00:00	D	43.4	ND		43.4	
280	2024-07-25	7	25	14:00:00	D	43.1	ND		43.1	
284	2024-07-25	7	25	15:00:00	D	43.0	ND		43.0	
288	2024-07-25	7	25	16:00:00	D	42.8	ND		42.8	
292	2024-07-25	7	25	17:00:00	D	43.6	ND		43.6	
296	2024-07-25	7	25	18:00:00	D	43.0	ND		43.0	
300	2024-07-25	7	25	19:00:00	E	41.6	ND		41.6	
304	2024-07-25	7	25	20:00:00	E	41.3	ND		41.3	
308	2024-07-25	7	25	21:00:00	E	42.8	ND		42.8	
312	2024-07-25	7	25	22:00:00	E	43.3	ND		43.3	
316	2024-07-25	7	25	23:00:00	N	42.3	ND		42.3	
320	2024-07-26	7	26	00:00:00	N	42.7	ND		42.7	
324	2024-07-26	7	26	01:00:00	N	42.4	ND		42.4	
328	2024-07-26	7	26	02:00:00	N	42.5	ND		42.5	
332	2024-07-26	7	26	03:00:00	N	42.5	ND		42.5	
336	2024-07-26	7	26	04:00:00	N	41.9	ND		41.9	
340	2024-07-26	7	26	05:00:00	N	41.9	ND		41.9	
344	2024-07-26	7	26	06:00:00	N	42.6	ND		42.6	
348	2024-07-26	7	26	07:00:00	D	41.6	ND		41.6	
352	2024-07-26	7	26	08:00:00	D	45.8	ND		45.8	
356	2024-07-26	7	26	09:00:00	D	47.3	ND		47.3	
360	2024-07-26	7	26	10:00:00	D	46.7	ND		46.7	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
364	2024-07-26	7	26	11:00:00	D	48.4	ND		48.4	
368	2024-07-26	7	26	12:00:00	D	48.7	ND		48.7	
372	2024-07-26	7	26	13:00:00	D	46.6	ND		46.6	
376	2024-07-26	7	26	14:00:00	D	46.5	OK		46.5	
380	2024-07-26	7	26	15:00:00	D	47.0	OK		47.0	
384	2024-07-26	7	26	16:00:00	D	45.0	OK		45.0	
388	2024-07-26	7	26	17:00:00	D	44.9	OK		44.9	
392	2024-07-26	7	26	18:00:00	D	42.8	Discard			42.8
396	2024-07-26	7	26	19:00:00	E	40.4	OK		40.4	
400	2024-07-26	7	26	20:00:00	E	38.8	OK		38.8	
404	2024-07-26	7	26	21:00:00	E	42.3	OK		42.3	
408	2024-07-26	7	26	22:00:00	E	45.0	OK		45.0	
412	2024-07-26	7	26	23:00:00	N	47.5	OK		47.5	
416	2024-07-27	7	27	00:00:00	N	44.7	OK		44.7	
420	2024-07-27	7	27	01:00:00	N	39.3	OK		39.3	
424	2024-07-27	7	27	02:00:00	N	51.3	OK	Discard		51.3
428	2024-07-27	7	27	03:00:00	N	50.1	OK	Discard		50.1
432	2024-07-27	7	27	04:00:00	N	54.9	Discard			54.9
436	2024-07-27	7	27	05:00:00	N	43.2	Discard			43.2
440	2024-07-27	7	27	06:00:00	N	39.6	Discard			39.6
444	2024-07-27	7	27	07:00:00	D	39.1	OK		39.1	
448	2024-07-27	7	27	08:00:00	D	39.6	OK		39.6	
452	2024-07-27	7	27	09:00:00	D	40.7	OK		40.7	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
456	2024-07-27	7	27	10:00:00	D	52.5	OK	Discard		52.5
460	2024-07-27	7	27	11:00:00	D	39.0	OK		39.0	
464	2024-07-27	7	27	12:00:00	D	55.2	OK	Discard		55.2
468	2024-07-27	7	27	13:00:00	D	53.5	Discard			53.5
472	2024-07-27	7	27	14:00:00	D	49.3	Discard			49.3
476	2024-07-27	7	27	15:00:00	D	48.5	Discard			48.5
480	2024-07-27	7	27	16:00:00	D	39.4	Discard			39.4
484	2024-07-27	7	27	17:00:00	D	38.3	OK		38.3	
488	2024-07-27	7	27	18:00:00	D	43.9	OK		43.9	
492	2024-07-27	7	27	19:00:00	E	40.1	OK		40.1	
496	2024-07-27	7	27	20:00:00	E	40.8	OK		40.8	
500	2024-07-27	7	27	21:00:00	E	40.9	OK		40.9	
504	2024-07-27	7	27	22:00:00	E	39.2	OK		39.2	
508	2024-07-27	7	27	23:00:00	N	41.9	OK		41.9	
512	2024-07-28	7	28	00:00:00	N	47.5	OK		47.5	
516	2024-07-28	7	28	01:00:00	N	43.2	Discard			43.2
520	2024-07-28	7	28	02:00:00	N	41.4	OK		41.4	
524	2024-07-28	7	28	03:00:00	N	39.6	OK		39.6	
528	2024-07-28	7	28	04:00:00	N	40.0	OK		40.0	
532	2024-07-28	7	28	05:00:00	N	41.2	OK		41.2	
536	2024-07-28	7	28	06:00:00	N	41.1	OK		41.1	
540	2024-07-28	7	28	07:00:00	D	40.8	OK		40.8	
544	2024-07-28	7	28	08:00:00	D	55.7	OK	Discard		55.7

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
548	2024-07-28	7	28	09:00:00	D	59.1	Discard			59.1
552	2024-07-28	7	28	10:00:00	D	46.9	Discard			46.9
556	2024-07-28	7	28	11:00:00	D	42.7	Discard			42.7
560	2024-07-28	7	28	12:00:00	D	44.2	OK		44.2	
564	2024-07-28	7	28	13:00:00	D	44.0	OK		44.0	
568	2024-07-28	7	28	14:00:00	D	44.1	OK		44.1	
572	2024-07-28	7	28	15:00:00	D	43.4	OK		43.4	
576	2024-07-28	7	28	16:00:00	D	43.7	OK		43.7	
580	2024-07-28	7	28	17:00:00	D	42.6	OK		42.6	
584	2024-07-28	7	28	18:00:00	D	38.6	OK		38.6	
588	2024-07-28	7	28	19:00:00	E	37.2	OK		37.2	
592	2024-07-28	7	28	20:00:00	E	36.5	OK		36.5	
596	2024-07-28	7	28	21:00:00	E	37.7	OK		37.7	
600	2024-07-28	7	28	22:00:00	E	38.6	OK		38.6	
604	2024-07-28	7	28	23:00:00	N	38.9	OK		38.9	
608	2024-07-29	7	29	00:00:00	N	37.4	OK		37.4	
612	2024-07-29	7	29	01:00:00	N	37.2	Discard			37.2
616	2024-07-29	7	29	02:00:00	N	38.0	OK		38.0	
620	2024-07-29	7	29	03:00:00	N	36.1	OK		36.1	
624	2024-07-29	7	29	04:00:00	N	35.7	OK		35.7	
628	2024-07-29	7	29	05:00:00	N	38.7	OK		38.7	
632	2024-07-29	7	29	06:00:00	N	39.0	OK		39.0	
636	2024-07-29	7	29	07:00:00	D	38.0	OK		38.0	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
640	2024-07-29	7	29	08:00:00	D	38.9	OK		38.9	
644	2024-07-29	7	29	09:00:00	D	37.6	OK		37.6	
648	2024-07-29	7	29	10:00:00	D	40.3	OK		40.3	
652	2024-07-29	7	29	11:00:00	D	43.4	OK		43.4	
656	2024-07-29	7	29	12:00:00	D	42.9	OK		42.9	
660	2024-07-29	7	29	13:00:00	D	41.8	OK		41.8	
664	2024-07-29	7	29	14:00:00	D	41.2	OK		41.2	
668	2024-07-29	7	29	15:00:00	D	41.3	OK		41.3	
672	2024-07-29	7	29	16:00:00	D	40.3	OK		40.3	
676	2024-07-29	7	29	17:00:00	D	39.9	OK		39.9	
680	2024-07-29	7	29	18:00:00	D	39.0	OK		39.0	
684	2024-07-29	7	29	19:00:00	E	35.1	OK		35.1	
688	2024-07-29	7	29	20:00:00	E	35.1	OK		35.1	
692	2024-07-29	7	29	21:00:00	E	37.3	OK		37.3	
696	2024-07-29	7	29	22:00:00	E	37.6	OK		37.6	
700	2024-07-29	7	29	23:00:00	N	37.8	OK		37.8	
704	2024-07-30	7	30	00:00:00	N	38.8	OK		38.8	
708	2024-07-30	7	30	01:00:00	N	38.1	OK		38.1	
712	2024-07-30	7	30	02:00:00	N	37.0	OK		37.0	
716	2024-07-30	7	30	03:00:00	N	35.2	OK		35.2	
720	2024-07-30	7	30	04:00:00	N	38.4	OK		38.4	
724	2024-07-30	7	30	05:00:00	N	40.9	OK		40.9	
728	2024-07-30	7	30	06:00:00	N	38.5	OK		38.5	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
732	2024-07-30	7	30	07:00:00	D	40.8	OK		40.8	
736	2024-07-30	7	30	08:00:00	D	39.9	OK		39.9	
740	2024-07-30	7	30	09:00:00	D	38.2	OK		38.2	
744	2024-07-30	7	30	10:00:00	D	39.5	OK		39.5	
748	2024-07-30	7	30	11:00:00	D	39.0	OK		39.0	
752	2024-07-30	7	30	12:00:00	D	40.1	OK		40.1	
756	2024-07-30	7	30	13:00:00	D	46.7	OK		46.7	
760	2024-07-30	7	30	14:00:00	D	39.0	OK		39.0	
764	2024-07-30	7	30	15:00:00	D	41.0	OK		41.0	
768	2024-07-30	7	30	16:00:00	D	42.1	OK		42.1	
772	2024-07-30	7	30	17:00:00	D	40.9	OK		40.9	
776	2024-07-30	7	30	18:00:00	D	38.9	OK		38.9	
780	2024-07-30	7	30	19:00:00	E	37.7	OK		37.7	
784	2024-07-30	7	30	20:00:00	E	36.8	OK		36.8	
788	2024-07-30	7	30	21:00:00	E	38.6	OK		38.6	
792	2024-07-30	7	30	22:00:00	E	39.5	OK		39.5	
796	2024-07-30	7	30	23:00:00	N	39.4	OK		39.4	
800	2024-07-31	7	31	00:00:00	N	39.4	OK		39.4	
804	2024-07-31	7	31	01:00:00	N	38.9	OK		38.9	
808	2024-07-31	7	31	02:00:00	N	40.6	OK		40.6	
812	2024-07-31	7	31	03:00:00	N	40.4	OK		40.4	
816	2024-07-31	7	31	04:00:00	N	40.9	OK		40.9	
820	2024-07-31	7	31	05:00:00	N	41.4	OK		41.4	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
824	2024-07-31	7	31	06:00:00	N	41.2	OK		41.2	
828	2024-07-31	7	31	07:00:00	D	41.8	OK		41.8	
832	2024-07-31	7	31	08:00:00	D	43.5	OK		43.5	
836	2024-07-31	7	31	09:00:00	D	42.6	OK		42.6	
840	2024-07-31	7	31	10:00:00	D	41.1	OK		41.1	
844	2024-07-31	7	31	11:00:00	D	40.7	OK		40.7	
848	2024-07-31	7	31	12:00:00	D	40.4	OK		40.4	
852	2024-07-31	7	31	13:00:00	D	41.9	OK		41.9	
856	2024-07-31	7	31	14:00:00	D	41.1	OK		41.1	
860	2024-07-31	7	31	15:00:00	D	46.7	OK		46.7	
864	2024-07-31	7	31	16:00:00	D	57.4	OK	Discard		57.4
868	2024-07-31	7	31	17:00:00	D	44.8	OK		44.8	
872	2024-07-31	7	31	18:00:00	D	42.2	Discard			42.2
876	2024-07-31	7	31	19:00:00	E	39.5	OK		39.5	
880	2024-07-31	7	31	20:00:00	E	38.7	OK		38.7	
884	2024-07-31	7	31	21:00:00	E	39.0	OK		39.0	
888	2024-07-31	7	31	22:00:00	E	40.8	OK		40.8	
892	2024-07-31	7	31	23:00:00	N	39.9	OK		39.9	
896	2024-08-01	8	1	00:00:00	N	39.6	OK		39.6	
900	2024-08-01	8	1	01:00:00	N	40.1	OK		40.1	
904	2024-08-01	8	1	02:00:00	N	39.4	OK		39.4	
908	2024-08-01	8	1	03:00:00	N	37.9	OK		37.9	
912	2024-08-01	8	1	04:00:00	N	36.9	OK		36.9	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
916	2024-08-01	8	1	05:00:00	N	40.4	OK		40.4	
920	2024-08-01	8	1	06:00:00	N	40.5	OK		40.5	
924	2024-08-01	8	1	07:00:00	D	39.1	Discard			39.1
928	2024-08-01	8	1	08:00:00	D	40.1	OK		40.1	
932	2024-08-01	8	1	09:00:00	D	39.3	OK		39.3	
936	2024-08-01	8	1	10:00:00	D	41.3	OK		41.3	
940	2024-08-01	8	1	11:00:00	D	44.8	OK		44.8	
944	2024-08-01	8	1	12:00:00	D	45.7	OK		45.7	
948	2024-08-01	8	1	13:00:00	D	47.0	OK		47.0	
952	2024-08-01	8	1	14:00:00	D	46.9	OK		46.9	
956	2024-08-01	8	1	15:00:00	D	46.0	OK		46.0	
960	2024-08-01	8	1	16:00:00	D	46.0	OK		46.0	
964	2024-08-01	8	1	17:00:00	D	44.7	OK		44.7	
968	2024-08-01	8	1	18:00:00	D	43.2	OK		43.2	
972	2024-08-01	8	1	19:00:00	E	43.3	OK		43.3	
976	2024-08-01	8	1	20:00:00	E	41.7	OK		41.7	
980	2024-08-01	8	1	21:00:00	E	39.1	OK		39.1	
984	2024-08-01	8	1	22:00:00	E	41.6	OK		41.6	
988	2024-08-01	8	1	23:00:00	N	41.0	OK		41.0	
992	2024-08-02	8	2	00:00:00	N	39.6	OK		39.6	
996	2024-08-02	8	2	01:00:00	N	36.5	OK		36.5	
1000	2024-08-02	8	2	02:00:00	N	38.0	OK		38.0	
1004	2024-08-02	8	2	03:00:00	N	40.5	OK		40.5	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
1008	2024-08-02	8	2	04:00:00	N	38.7	OK		38.7	
1012	2024-08-02	8	2	05:00:00	N	39.1	OK		39.1	
1016	2024-08-02	8	2	06:00:00	N	37.7	OK		37.7	
1020	2024-08-02	8	2	07:00:00	D	39.4	OK		39.4	
1024	2024-08-02	8	2	08:00:00	D	42.8	OK		42.8	
1028	2024-08-02	8	2	09:00:00	D	44.4	OK		44.4	
1032	2024-08-02	8	2	10:00:00	D	44.9	OK		44.9	
1036	2024-08-02	8	2	11:00:00	D	46.4	OK		46.4	
1040	2024-08-02	8	2	12:00:00	D	47.2	OK		47.2	
1044	2024-08-02	8	2	13:00:00	D	50.3	OK		50.3	
1048	2024-08-02	8	2	14:00:00	D	50.7	OK		50.7	
1052	2024-08-02	8	2	15:00:00	D	49.7	OK		49.7	
1056	2024-08-02	8	2	16:00:00	D	48.3	OK		48.3	
1060	2024-08-02	8	2	17:00:00	D	46.4	OK		46.4	
1064	2024-08-02	8	2	18:00:00	D	45.4	OK		45.4	
1068	2024-08-02	8	2	19:00:00	E	44.0	OK		44.0	
1072	2024-08-02	8	2	20:00:00	E	42.7	OK		42.7	
1076	2024-08-02	8	2	21:00:00	E	38.3	OK		38.3	
1080	2024-08-02	8	2	22:00:00	E	38.6	OK		38.6	
1084	2024-08-02	8	2	23:00:00	N	37.8	OK		37.8	
1088	2024-08-03	8	3	00:00:00	N	36.5	OK		36.5	
1092	2024-08-03	8	3	01:00:00	N	37.0	OK		37.0	
1096	2024-08-03	8	3	02:00:00	N	38.3	OK		38.3	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
1100	2024-08-03	8	3	03:00:00	N	36.5	OK		36.5	
1104	2024-08-03	8	3	04:00:00	N	37.4	OK		37.4	
1108	2024-08-03	8	3	05:00:00	N	38.6	OK		38.6	
1112	2024-08-03	8	3	06:00:00	N	37.5	OK		37.5	
1116	2024-08-03	8	3	07:00:00	D	36.9	OK		36.9	
1120	2024-08-03	8	3	08:00:00	D	42.2	OK		42.2	
1124	2024-08-03	8	3	09:00:00	D	44.4	OK		44.4	
1128	2024-08-03	8	3	10:00:00	D	50.3	OK	Discard		50.3
1132	2024-08-03	8	3	11:00:00	D	45.8	Discard			45.8
1136	2024-08-03	8	3	12:00:00	D	52.2	Discard			52.2
1140	2024-08-03	8	3	13:00:00	D	47.5	Discard			47.5
1144	2024-08-03	8	3	14:00:00	D	45.2	Discard			45.2
1148	2024-08-03	8	3	15:00:00	D	44.9	OK		44.9	
1152	2024-08-03	8	3	16:00:00	D	42.2	OK		42.2	
1156	2024-08-03	8	3	17:00:00	D	40.0	OK		40.0	
1160	2024-08-03	8	3	18:00:00	D	41.6	OK		41.6	
1164	2024-08-03	8	3	19:00:00	E	42.0	OK		42.0	
1168	2024-08-03	8	3	20:00:00	E	40.6	OK		40.6	
1172	2024-08-03	8	3	21:00:00	E	37.8	OK		37.8	
1176	2024-08-03	8	3	22:00:00	E	37.9	OK		37.9	
1180	2024-08-03	8	3	23:00:00	N	37.4	OK		37.4	
1184	2024-08-04	8	4	00:00:00	N	35.5	OK		35.5	
1188	2024-08-04	8	4	01:00:00	N	34.4	OK		34.4	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
1192	2024-08-04	8	4	02:00:00	N	36.0	OK		36.0	
1196	2024-08-04	8	4	03:00:00	N	34.0	OK		34.0	
1200	2024-08-04	8	4	04:00:00	N	35.2	OK		35.2	
1204	2024-08-04	8	4	05:00:00	N	39.1	OK		39.1	
1208	2024-08-04	8	4	06:00:00	N	40.6	OK		40.6	
1212	2024-08-04	8	4	07:00:00	D	38.6	Discard			38.6
1216	2024-08-04	8	4	08:00:00	D	34.0	OK		34.0	
1220	2024-08-04	8	4	09:00:00	D	42.0	OK		42.0	
1224	2024-08-04	8	4	10:00:00	D	40.7	OK		40.7	
1228	2024-08-04	8	4	11:00:00	D	42.1	OK		42.1	
1232	2024-08-04	8	4	12:00:00	D	40.2	OK		40.2	
1236	2024-08-04	8	4	13:00:00	D	40.2	OK		40.2	
1240	2024-08-04	8	4	14:00:00	D	40.5	Discard			40.5
1244	2024-08-04	8	4	15:00:00	D	42.5	OK		42.5	
1248	2024-08-04	8	4	16:00:00	D	41.5	Discard			41.5
1252	2024-08-04	8	4	17:00:00	D	41.3	OK		41.3	
1256	2024-08-04	8	4	18:00:00	D	40.1	OK		40.1	
1260	2024-08-04	8	4	19:00:00	E	36.5	OK		36.5	
1264	2024-08-04	8	4	20:00:00	E	40.1	OK		40.1	
1268	2024-08-04	8	4	21:00:00	E	40.3	OK		40.3	
1272	2024-08-04	8	4	22:00:00	E	37.5	OK		37.5	
1276	2024-08-04	8	4	23:00:00	N	38.3	OK		38.3	
1280	2024-08-05	8	5	00:00:00	N	38.8	OK		38.8	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
1284	2024-08-05	8	5	01:00:00	N	35.4	Discard			35.4
1288	2024-08-05	8	5	02:00:00	N	33.5	OK		33.5	
1292	2024-08-05	8	5	03:00:00	N	34.1	OK		34.1	
1296	2024-08-05	8	5	04:00:00	N	33.5	OK		33.5	
1300	2024-08-05	8	5	05:00:00	N	39.7	OK		39.7	
1304	2024-08-05	8	5	06:00:00	N	39.6	OK		39.6	
1308	2024-08-05	8	5	07:00:00	D	35.8	OK		35.8	
1312	2024-08-05	8	5	08:00:00	D	37.0	OK		37.0	
1316	2024-08-05	8	5	09:00:00	D	39.1	OK		39.1	
1320	2024-08-05	8	5	10:00:00	D	39.9	OK		39.9	
1324	2024-08-05	8	5	11:00:00	D	41.0	OK		41.0	
1328	2024-08-05	8	5	12:00:00	D	42.4	OK		42.4	
1332	2024-08-05	8	5	13:00:00	D	41.5	OK		41.5	
1336	2024-08-05	8	5	14:00:00	D	41.9	OK		41.9	
1340	2024-08-05	8	5	15:00:00	D	41.8	OK		41.8	
1344	2024-08-05	8	5	16:00:00	D	40.9	OK		40.9	
1348	2024-08-05	8	5	17:00:00	D	40.4	OK		40.4	
1352	2024-08-05	8	5	18:00:00	D	40.3	OK		40.3	
1356	2024-08-05	8	5	19:00:00	E	38.4	OK		38.4	
1360	2024-08-05	8	5	20:00:00	E	36.9	OK		36.9	
1364	2024-08-05	8	5	21:00:00	E	39.2	OK		39.2	
1368	2024-08-05	8	5	22:00:00	E	37.6	OK		37.6	
1372	2024-08-05	8	5	23:00:00	N	33.5	OK		33.5	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
1376	2024-08-06	8	6	00:00:00	N	33.2	OK		33.2	
1380	2024-08-06	8	6	01:00:00	N	33.7	OK		33.7	
1384	2024-08-06	8	6	02:00:00	N	32.2	OK		32.2	
1388	2024-08-06	8	6	03:00:00	N	33.3	OK		33.3	
1392	2024-08-06	8	6	04:00:00	N	34.0	OK		34.0	
1396	2024-08-06	8	6	05:00:00	N	36.6	OK		36.6	
1400	2024-08-06	8	6	06:00:00	N	35.7	OK		35.7	
1404	2024-08-06	8	6	07:00:00	D	36.3	OK		36.3	
1408	2024-08-06	8	6	08:00:00	D	37.9	OK		37.9	
1412	2024-08-06	8	6	09:00:00	D	38.3	OK		38.3	
1416	2024-08-06	8	6	10:00:00	D	41.0	OK		41.0	
1420	2024-08-06	8	6	11:00:00	D	41.9	OK		41.9	
1424	2024-08-06	8	6	12:00:00	D	43.8	OK		43.8	
1428	2024-08-06	8	6	13:00:00	D	44.5	OK		44.5	
1432	2024-08-06	8	6	14:00:00	D	44.5	OK		44.5	
1436	2024-08-06	8	6	15:00:00	D	44.7	OK		44.7	
1440	2024-08-06	8	6	16:00:00	D	45.3	OK		45.3	
1444	2024-08-06	8	6	17:00:00	D	44.7	OK		44.7	
1448	2024-08-06	8	6	18:00:00	D	43.1	OK		43.1	
1452	2024-08-06	8	6	19:00:00	E	40.6	OK		40.6	
1456	2024-08-06	8	6	20:00:00	E	53.5	OK	Discard		53.5
1460	2024-08-06	8	6	21:00:00	E	39.1	OK		39.1	
1464	2024-08-06	8	6	22:00:00	E	39.9	OK		39.9	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
1468	2024-08-06	8	6	23:00:00	N	37.5	OK		37.5	
1472	2024-08-07	8	7	00:00:00	N	37.7	OK		37.7	
1476	2024-08-07	8	7	01:00:00	N	37.3	OK		37.3	
1480	2024-08-07	8	7	02:00:00	N	38.3	OK		38.3	
1484	2024-08-07	8	7	03:00:00	N	38.0	OK		38.0	
1488	2024-08-07	8	7	04:00:00	N	37.7	OK		37.7	
1492	2024-08-07	8	7	05:00:00	N	39.6	OK		39.6	
1496	2024-08-07	8	7	06:00:00	N	41.0	OK		41.0	
1500	2024-08-07	8	7	07:00:00	D	39.7	OK		39.7	
1504	2024-08-07	8	7	08:00:00	D	40.7	OK		40.7	
1508	2024-08-07	8	7	09:00:00	D	41.4	OK		41.4	
1512	2024-08-07	8	7	10:00:00	D	41.7	OK		41.7	
1516	2024-08-07	8	7	11:00:00	D	44.3	OK		44.3	
1520	2024-08-07	8	7	12:00:00	D	39.7	OK		39.7	
1524	2024-08-07	8	7	13:00:00	D	40.2	OK		40.2	
1528	2024-08-07	8	7	14:00:00	D	39.7	OK		39.7	
1532	2024-08-07	8	7	15:00:00	D	41.9	OK		41.9	
1536	2024-08-07	8	7	16:00:00	D	45.3	OK		45.3	
1540	2024-08-07	8	7	17:00:00	D	41.2	OK		41.2	
1544	2024-08-07	8	7	18:00:00	D	43.9	OK		43.9	
1548	2024-08-07	8	7	19:00:00	E	45.6	OK		45.6	
1552	2024-08-07	8	7	20:00:00	E	39.7	OK		39.7	
1556	2024-08-07	8	7	21:00:00	E	41.1	OK		41.1	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
1560	2024-08-07	8	7	22:00:00	E	38.8	OK		38.8	
1564	2024-08-07	8	7	23:00:00	N	42.6	OK		42.6	

North Station NM-1: Daily Summary (Campaign #1)

Date	No. Exceeding 50 dBA		Period			Day (07:00 to 19:00)			Evening (19:00 to 23:00)			Night (23:00 to 07:00)		
	Before Validation	After Validation	1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)		
			Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
22-Jul-24	0	0	34.9	41.5	37.1	34.9	36.3	35.6	41.5	41.5	41.5	-	-	-
23-Jul-24	1	0	36.9	41.2	39.0	37.0	41.2	38.8	38.5	40.3	39.3	36.9	40.0	39.2
24-Jul-24	0	0	35.4	40.2	37.5	36.9	39.5	38.0	36.4	40.2	38.4	35.4	37.6	36.4
25-Jul-24	0	0	34.9	44.5	40.4	36.9	44.5	42.1	41.3	43.3	42.3	34.9	42.3	36.7
26-Jul-24	0	0	38.8	48.7	44.3	41.6	48.7	46.2	38.8	45.0	41.6	41.9	47.5	43.0
27-Jul-24	6	0	38.3	44.7	40.6	38.3	43.9	40.1	39.2	40.9	40.3	39.3	44.7	42.0
28-Jul-24	2	0	36.5	47.5	41.1	38.6	44.2	42.7	36.5	38.6	37.5	38.9	47.5	41.4
29-Jul-24	0	0	35.1	43.4	38.8	37.6	43.4	40.4	35.1	37.6	36.3	35.7	39.0	37.5
30-Jul-24	0	0	35.2	46.7	39.4	38.2	46.7	40.5	36.8	39.5	38.1	35.2	40.9	38.3
31-Jul-24	1	0	38.7	46.7	41.2	40.4	46.7	42.5	38.7	40.8	39.5	38.9	41.4	40.4
01-Aug-24	0	0	36.9	47.0	42.0	39.3	47.0	44.1	39.1	43.3	41.4	36.9	41.0	39.5
02-Aug-24	2	2	36.5	50.7	42.8	39.4	50.7	46.3	38.3	44.0	40.9	36.5	40.5	38.5
03-Aug-24	2	0	36.5	44.9	39.5	36.9	44.9	41.7	37.8	42.0	39.6	36.5	38.6	37.4
04-Aug-24	0	0	34.0	42.5	38.6	34.0	42.5	40.4	36.5	40.3	38.6	34.0	40.6	36.6
05-Aug-24	0	0	33.5	42.4	38.6	35.8	42.4	40.2	36.9	39.2	38.0	33.5	39.7	36.1
06-Aug-24	1	0	32.2	45.3	39.2	36.3	45.3	42.1	39.1	40.6	39.9	32.2	37.5	34.5

Date	No. Exceeding 50 dBA		Period			Day (07:00 to 19:00)			Evening (19:00 to 23:00)			Night (23:00 to 07:00)		
	Before Validation	After Validation	1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)		
			Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
07-Aug-24	0	0	37.3	45.6	40.7	39.7	45.3	41.6	38.8	45.6	41.3	37.3	42.6	39.0

North Station NM-1: Summary of Hourly Data (Campaign #2)

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
0	2024-08-08	8	8	00:00:00	N	40.6	OK		40.6	
4	2024-08-08	8	8	01:00:00	N	38.1	OK		38.1	
8	2024-08-08	8	8	02:00:00	N	38.8	OK		38.8	
12	2024-08-08	8	8	03:00:00	N	38.5	OK		38.5	
16	2024-08-08	8	8	04:00:00	N	35.6	OK		35.6	
20	2024-08-08	8	8	05:00:00	N	36.6	OK		36.6	
24	2024-08-08	8	8	06:00:00	N	37.9	OK		37.9	
28	2024-08-08	8	8	07:00:00	D	40.8	OK		40.8	
32	2024-08-08	8	8	08:00:00	D	42.5	Discard			42.5
36	2024-08-08	8	8	09:00:00	D	46.1	OK		46.1	
40	2024-08-08	8	8	10:00:00	D	42.1	OK		42.1	
44	2024-08-08	8	8	11:00:00	D	44.1	OK		44.1	
48	2024-08-08	8	8	12:00:00	D	40.6	Discard			40.6
52	2024-08-08	8	8	13:00:00	D	44.5	Discard			44.5
56	2024-08-08	8	8	14:00:00	D	42.2	OK		42.2	
60	2024-08-08	8	8	15:00:00	D	41.1	Discard			41.1
64	2024-08-08	8	8	16:00:00	D	45.8	OK		45.8	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
68	2024-08-08	8	8	17:00:00	D	59.4	OK	Discard		59.4
72	2024-08-08	8	8	18:00:00	D	50.2	OK		50.2	
76	2024-08-08	8	8	19:00:00	E	47.4	Discard			47.4
80	2024-08-08	8	8	20:00:00	E	48.3	OK		48.3	
84	2024-08-08	8	8	21:00:00	E	48.0	OK		48.0	
88	2024-08-08	8	8	22:00:00	E	47.5	OK		47.5	
92	2024-08-08	8	8	23:00:00	N	45.3	OK		45.3	
96	2024-08-09	8	9	00:00:00	N	42.3	OK		42.3	
100	2024-08-09	8	9	01:00:00	N	42.1	OK		42.1	
104	2024-08-09	8	9	02:00:00	N	38.5	OK		38.5	
108	2024-08-09	8	9	03:00:00	N	37.4	OK		37.4	
112	2024-08-09	8	9	04:00:00	N	38.1	OK		38.1	
116	2024-08-09	8	9	05:00:00	N	39.0	OK		39.0	
120	2024-08-09	8	9	06:00:00	N	41.9	OK		41.9	
124	2024-08-09	8	9	07:00:00	D	38.7	OK		38.7	
128	2024-08-09	8	9	08:00:00	D	41.6	OK		41.6	
132	2024-08-09	8	9	09:00:00	D	44.7	OK		44.7	
136	2024-08-09	8	9	10:00:00	D	47.9	OK		47.9	
140	2024-08-09	8	9	11:00:00	D	40.9	Discard			40.9
144	2024-08-09	8	9	12:00:00	D	45.1	Discard			45.1
148	2024-08-09	8	9	13:00:00	D	46.3	Discard			46.3
152	2024-08-09	8	9	14:00:00	D	49.2	OK		49.2	
156	2024-08-09	8	9	15:00:00	D	49.6	OK		49.6	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
160	2024-08-09	8	9	16:00:00	D	50.0	OK		50.0	
164	2024-08-09	8	9	17:00:00	D	46.8	OK		46.8	
168	2024-08-09	8	9	18:00:00	D	42.4	OK		42.4	
172	2024-08-09	8	9	19:00:00	E	41.7	OK		41.7	
176	2024-08-09	8	9	20:00:00	E	43.0	OK		43.0	
180	2024-08-09	8	9	21:00:00	E	55.1	OK	Discard		55.1
184	2024-08-09	8	9	22:00:00	E	39.7	OK		39.7	
188	2024-08-09	8	9	23:00:00	N	39.0	OK		39.0	
192	2024-08-10	8	10	00:00:00	N	38.9	OK		38.9	
196	2024-08-10	8	10	01:00:00	N	38.6	OK		38.6	
200	2024-08-10	8	10	02:00:00	N	38.9	OK		38.9	
204	2024-08-10	8	10	03:00:00	N	38.6	OK		38.6	
208	2024-08-10	8	10	04:00:00	N	41.2	OK		41.2	
212	2024-08-10	8	10	05:00:00	N	40.2	OK		40.2	
216	2024-08-10	8	10	06:00:00	N	40.3	OK		40.3	
220	2024-08-10	8	10	07:00:00	D	44.7	OK		44.7	
224	2024-08-10	8	10	08:00:00	D	46.1	OK		46.1	
228	2024-08-10	8	10	09:00:00	D	46.1	OK		46.1	
232	2024-08-10	8	10	10:00:00	D	47.6	OK		47.6	
236	2024-08-10	8	10	11:00:00	D	47.2	OK		47.2	
240	2024-08-10	8	10	12:00:00	D	47.1	OK		47.1	
244	2024-08-10	8	10	13:00:00	D	47.6	OK		47.6	
248	2024-08-10	8	10	14:00:00	D	48.2	OK		48.2	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
252	2024-08-10	8	10	15:00:00	D	49.9	OK		49.9	
256	2024-08-10	8	10	16:00:00	D	49.6	OK		49.6	
260	2024-08-10	8	10	17:00:00	D	47.7	OK		47.7	
264	2024-08-10	8	10	18:00:00	D	45.9	OK		45.9	
268	2024-08-10	8	10	19:00:00	E	41.0	OK		41.0	
272	2024-08-10	8	10	20:00:00	E	41.5	OK		41.5	
276	2024-08-10	8	10	21:00:00	E	39.8	OK		39.8	
280	2024-08-10	8	10	22:00:00	E	40.0	OK		40.0	
284	2024-08-10	8	10	23:00:00	N	39.9	OK		39.9	
288	2024-08-11	8	11	00:00:00	N	40.6	OK		40.6	
292	2024-08-11	8	11	01:00:00	N	40.0	OK		40.0	
296	2024-08-11	8	11	02:00:00	N	39.5	OK		39.5	
300	2024-08-11	8	11	03:00:00	N	38.3	OK		38.3	
304	2024-08-11	8	11	04:00:00	N	38.5	OK		38.5	
308	2024-08-11	8	11	05:00:00	N	38.9	OK		38.9	
312	2024-08-11	8	11	06:00:00	N	39.7	OK		39.7	
316	2024-08-11	8	11	07:00:00	D	40.3	OK		40.3	
320	2024-08-11	8	11	08:00:00	D	43.4	OK		43.4	
324	2024-08-11	8	11	09:00:00	D	45.0	OK		45.0	
328	2024-08-11	8	11	10:00:00	D	44.9	OK		44.9	
332	2024-08-11	8	11	11:00:00	D	45.7	OK		45.7	
336	2024-08-11	8	11	12:00:00	D	45.8	OK		45.8	
340	2024-08-11	8	11	13:00:00	D	45.8	OK		45.8	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
344	2024-08-11	8	11	14:00:00	D	45.9	OK		45.9	
348	2024-08-11	8	11	15:00:00	D	45.3	OK		45.3	
352	2024-08-11	8	11	16:00:00	D	46.4	OK		46.4	
356	2024-08-11	8	11	17:00:00	D	45.5	OK		45.5	
360	2024-08-11	8	11	18:00:00	D	44.6	OK		44.6	
364	2024-08-11	8	11	19:00:00	E	43.0	OK		43.0	
368	2024-08-11	8	11	20:00:00	E	42.1	OK		42.1	
372	2024-08-11	8	11	21:00:00	E	40.7	OK		40.7	
376	2024-08-11	8	11	22:00:00	E	41.4	OK		41.4	
380	2024-08-11	8	11	23:00:00	N	40.9	OK		40.9	
384	2024-08-12	8	12	00:00:00	N	39.0	OK		39.0	
388	2024-08-12	8	12	01:00:00	N	39.6	OK		39.6	
392	2024-08-12	8	12	02:00:00	N	39.9	OK		39.9	
396	2024-08-12	8	12	03:00:00	N	40.0	OK		40.0	
400	2024-08-12	8	12	04:00:00	N	38.2	OK		38.2	
404	2024-08-12	8	12	05:00:00	N	41.2	OK		41.2	
408	2024-08-12	8	12	06:00:00	N	39.6	OK		39.6	
412	2024-08-12	8	12	07:00:00	D	39.1	OK		39.1	
416	2024-08-12	8	12	08:00:00	D	39.3	OK		39.3	
420	2024-08-12	8	12	09:00:00	D	41.7	OK		41.7	
424	2024-08-12	8	12	10:00:00	D	42.4	OK		42.4	
428	2024-08-12	8	12	11:00:00	D	44.1	OK		44.1	
432	2024-08-12	8	12	12:00:00	D	44.5	OK		44.5	

ID	Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
436	2024-08-12	8	12	13:00:00	D	44.6	OK		44.6	
440	2024-08-12	8	12	14:00:00	D	44.6	OK		44.6	
444	2024-08-12	8	12	15:00:00	D	50.9	OK	Discard		50.9

North Station NM-1: Daily Summary (Campaign #2)

Date	No. Exceeding 50 dBA		Period			Day (07:00 to 19:00)			Evening (19:00 to 23:00)			Night (23:00 to 07:00)		
	Before Validation	After Validation	1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)		
			Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
08-Aug-24	2	1	35.6	50.2	42.6	40.8	50.2	44.5	47.5	48.3	47.9	35.6	45.3	38.9
09-Aug-24	1	0	37.4	50.0	42.7	38.7	50.0	45.7	39.7	43.0	41.4	37.4	42.3	39.8
10-Aug-24	0	0	38.6	49.9	43.6	44.7	49.9	47.3	39.8	41.5	40.6	38.6	41.2	39.6
11-Aug-24	0	0	38.3	46.4	42.6	40.3	46.4	44.9	40.7	43.0	41.8	38.3	40.9	39.5
12-Aug-24	1	0	38.2	44.6	41.2	39.1	44.6	42.5	-	-	-	38.2	41.2	39.6

South Station NM-2: Summary of Hourly Data (Campaign #2)

Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
2024-08-08	8	8	16:00:00	D	45.6	OK		45.6	
2024-08-08	8	8	17:00:00	D	47.6	OK		47.6	
2024-08-08	8	8	18:00:00	D	48.0	OK		48.0	
2024-08-08	8	8	19:00:00	E	47.0	Discard			47.0
2024-08-08	8	8	20:00:00	E	45.6	OK		45.6	
2024-08-08	8	8	21:00:00	E	45.0	OK		45.0	
2024-08-08	8	8	22:00:00	E	44.0	OK		44.0	
2024-08-08	8	8	23:00:00	N	43.9	OK		43.9	
2024-08-08	8	8	0:00:00	N	41.8	OK		41.8	
2024-08-09	8	9	1:00:00	N	39.8	OK		39.8	
2024-08-09	8	9	2:00:00	N	39.8	OK		39.8	
2024-08-09	8	9	3:00:00	N	40.3	OK		40.3	
2024-08-09	8	9	4:00:00	N	40.4	OK		40.4	
2024-08-09	8	9	5:00:00	N	41.2	OK		41.2	
2024-08-09	8	9	6:00:00	N	41.3	OK		41.3	
2024-08-09	8	9	7:00:00	D	40.9	OK		40.9	
2024-08-09	8	9	8:00:00	D	40.1	OK		40.1	
2024-08-09	8	9	9:00:00	D	42.8	OK		42.8	
2024-08-09	8	9	10:00:00	D	41.1	OK		41.1	
2024-08-09	8	9	11:00:00	D	39.3	Discard			39.3
2024-08-09	8	9	12:00:00	D	42.0	Discard			42.0
2024-08-09	8	9	13:00:00	D	41.4	Discard			41.4

Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
2024-08-09	8	9	14:00:00	D	45.3	OK		45.3	
2024-08-09	8	9	15:00:00	D	46.7	OK		46.7	
2024-08-09	8	9	16:00:00	D	45.8	OK		45.8	
2024-08-09	8	9	17:00:00	D	44.5	OK		44.5	
2024-08-09	8	9	18:00:00	D	45.4	OK		45.4	
2024-08-09	8	9	19:00:00	E	38.3	OK		38.3	
2024-08-09	8	9	20:00:00	E	38.8	OK		38.8	
2024-08-09	8	9	21:00:00	E	38.6	OK		38.6	
2024-08-09	8	9	22:00:00	E	39.3	OK		39.3	
2024-08-09	8	9	23:00:00	N	38.8	OK		38.8	
2024-08-09	8	9	0:00:00	N	39.8	OK		39.8	
2024-08-10	8	10	1:00:00	N	38.2	OK		38.2	
2024-08-10	8	10	2:00:00	N	38.5	OK		38.5	
2024-08-10	8	10	3:00:00	N	38.0	OK		38.0	
2024-08-10	8	10	4:00:00	N	38.6	OK		38.6	
2024-08-10	8	10	5:00:00	N	38.1	OK		38.1	
2024-08-10	8	10	6:00:00	N	39.0	OK		39.0	
2024-08-10	8	10	7:00:00	D	38.8	OK		38.8	
2024-08-10	8	10	8:00:00	D	40.9	OK		40.9	
2024-08-10	8	10	9:00:00	D	41.5	OK		41.5	
2024-08-10	8	10	10:00:00	D	42.8	OK		42.8	
2024-08-10	8	10	11:00:00	D	44.0	OK		44.0	
2024-08-10	8	10	12:00:00	D	43.2	OK		43.2	

Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
2024-08-10	8	10	13:00:00	D	45.2	OK		45.2	
2024-08-10	8	10	14:00:00	D	44.1	OK		44.1	
2024-08-10	8	10	15:00:00	D	44.3	OK		44.3	
2024-08-10	8	10	16:00:00	D	43.9	OK		43.9	
2024-08-10	8	10	17:00:00	D	42.5	OK		42.5	
2024-08-10	8	10	18:00:00	D	40.6	OK		40.6	
2024-08-10	8	10	19:00:00	E	39.6	OK		39.6	
2024-08-10	8	10	20:00:00	E	39.2	OK		39.2	
2024-08-10	8	10	21:00:00	E	40.0	OK		40.0	
2024-08-10	8	10	22:00:00	E	39.0	OK		39.0	
2024-08-10	8	10	23:00:00	N	39.6	OK		39.6	
2024-08-10	8	10	0:00:00	N	39.5	OK		39.5	
2024-08-11	8	11	1:00:00	N	39.3	OK		39.3	
2024-08-11	8	11	2:00:00	N	40.5	OK		40.5	
2024-08-11	8	11	3:00:00	N	40.5	OK		40.5	
2024-08-11	8	11	4:00:00	N	41.5	OK		41.5	
2024-08-11	8	11	5:00:00	N	41.7	OK		41.7	
2024-08-11	8	11	6:00:00	N	41.2	OK		41.2	
2024-08-11	8	11	7:00:00	D	40.3	OK		40.3	
2024-08-11	8	11	8:00:00	D	40.2	OK		40.2	
2024-08-11	8	11	9:00:00	D	39.9	OK		39.9	
2024-08-11	8	11	10:00:00	D	40.4	OK		40.4	
2024-08-11	8	11	11:00:00	D	41.5	OK		41.5	

Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
2024-08-11	8	11	12:00:00	D	41.6	OK		41.6	
2024-08-11	8	11	13:00:00	D	42.6	OK		42.6	
2024-08-11	8	11	14:00:00	D	45.9	OK		45.9	
2024-08-11	8	11	15:00:00	D	40.4	OK		40.4	
2024-08-11	8	11	16:00:00	D	40.2	OK		40.2	
2024-08-11	8	11	17:00:00	D	40.5	OK		40.5	
2024-08-11	8	11	18:00:00	D	39.6	OK		39.6	
2024-08-11	8	11	19:00:00	E	39.5	OK		39.5	
2024-08-11	8	11	20:00:00	E	41.2	OK		41.2	
2024-08-11	8	11	21:00:00	E	38.7	OK		38.7	
2024-08-11	8	11	22:00:00	E	38.6	OK		38.6	
2024-08-11	8	11	23:00:00	N	38.2	OK		38.2	
2024-08-11	8	11	0:00:00	N	39.2	OK		39.2	
2024-08-12	8	12	1:00:00	N	40.0	OK		40.0	
2024-08-12	8	12	2:00:00	N	38.2	OK		38.2	
2024-08-12	8	12	3:00:00	N	38.1	OK		38.1	
2024-08-12	8	12	4:00:00	N	39.4	OK		39.4	
2024-08-12	8	12	5:00:00	N	40.1	OK		40.1	
2024-08-12	8	12	6:00:00	N	40.7	OK		40.7	
2024-08-12	8	12	7:00:00	D	39.3	OK		39.3	
2024-08-12	8	12	8:00:00	D	40.2	OK		40.2	
2024-08-12	8	12	9:00:00	D	39.2	OK		39.2	
2024-08-12	8	12	10:00:00	D	40.1	OK		40.1	

Date	Month	Day	Time	Period	LAeq	Met	Other	Final	Discarded
2024-08-12	8	12	11:00:00	D	41.2	OK		41.2	
2024-08-12	8	12	12:00:00	D	41.4	OK		41.4	
2024-08-12	8	12	13:00:00	D	41.3	OK		41.3	

South Station NM-1: Daily Summary (Campaign #2)

Date	No. Exceeding 50 dBA		Period			Day (07:00 to 19:00)			Evening (19:00 to 23:00)			Night (23:00 to 07:00)		
	Before Validation	After Validation	1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)			1-hr Leq (dBA)		
			Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
08-Aug-24	0	0	41.8	48.0	45.2	45.6	48.0	47.1	44.0	45.6	44.9	41.8	43.9	42.9
09-Aug-24	0	0	38.3	46.7	41.4	40.1	46.7	43.6	38.3	39.3	38.7	38.8	41.3	40.2
10-Aug-24	0	0	38.0	45.2	40.8	38.8	45.2	42.6	39.0	40.0	39.4	38.0	39.6	38.7
11-Aug-24	0	0	38.2	45.9	40.5	39.6	45.9	41.1	38.6	41.2	39.5	38.2	41.7	40.3
12-Aug-24	0	0	38.1	41.4	39.9	39.2	41.4	40.4	-	-	-	38.1	40.7	39.4

Appendix 7. Barn Swallow nest structure monitoring results, 2024.

Nest ID	Date	Observer	Time	Wind (Bf)	Air Temp (C)	Cloud cover (100%)	Observations
BARS A	2024-06-29	BM, PC	16:44	3	18	40	No evidence of use, no BARS observed
BARS B	2024-06-30	BM, PC	10:08	1	18.2	0	Some whitewash, no BARS observed
BARS C	2024-06-30	BM, PC	12:26	0	19.9	10	Some whitewash, no BARS observed
BARS D	2024-06-30	BM, PC	12:55	15	20.1	15	No nesting evidence, hornet nest in condo
BARS A	2024-05-18	LS	16:25	3	18.6	40	All but 2 cups have droppings, labels faded and illegible
BARS B	2024-05-18	LS	20:38	2	14.3	100	1A, 2A, 5A droppings No BARS activity.
BARS C	2024-05-18	LS	17:35	4	19	40	Droppings in 2d, 4D, 6D, 8D, 3 BARS flying in tield, no activity near structure
BARS D	2024-05-18	LS	19:00	3	15.6	100	No nesting evidence, 6 CLSW flew out of old garage
BARS A	2024-05-04	NG-CC	11:45		8	100	Old debris still in 3 boxes, same as last season
BARS B	2024-05-04	NG-CC	11:15		8	100	No BARS observed, no evidence of nesting
BARS C	2024-05-04	NG-CC	10:20		8	100	Small wasp nest above the C5 and C6 nest boxes
BARS D	2024-05-04	NG-CC	10:40		8	100	Old material in D4, D6, Broken wasp nest above D3 and 4
BARS A	2024-06-02	NG-CC	16:00		24	100	Old debris within several nests, same as previous
BARS B	2024-06-03	NG-CC	14:50		20	20	4B has debris inside
BARS C	2024-06-02	NG-CC	10:45		21	0	Small wasp nest above C 5 and 6
BARS D	2024-06-02	NG-CC	11:15		21	0	Some old material in D4 and 6, Broken wasp nest above D3 and 4
BARS C	2024-07-06	NG RL/HJ	10:00		24	0	No BARS observed, no evidence of nesting
BARS D	2024-07-06	NG RL/HJ	10:37		25	0	Some dirt and debris in few nest boxes

Appendix 8. Summary of Incidental SAR Observations at New Gold Rainy River Mine, 2024.

Species	Date	Easting	Northing	Number of Individuals	Comments
American White Pelican	2024-04-27	4204367	5411210	50	Flying above TMA, WMP and booster station, in flight
American White Pelican	2024-05-10	421640	5413089	50	TMA, landed on water
American White Pelican	2024-05-14	421101	5411602	17	WMP - primarily east side
Bank Swallow	2024-06-22	437505	5416685	24	Quarry- Bank Swallow - 30-35 nests, 24 birds flying. Harold McQuaker Enterprises- Emo, ON 807-482-2884
Barn Swallow	2024-05-20	429108	5406681	2	2 perched on line
Barn Swallow	2024-06-22	437611	5415544	8	Off Lake Bridge- 8 Barn Swalllows flying around
Barn Swallow	2024-05-15	426457	5410992	1	flying around admin
Black Ash	2024-06-09	429366	5409532	1	medium-sized tree (approx 5cm wide trunk) in mixed wood swamp habitat
Bobolink	2024-05-18	419065	5411869	1	singing in field to south on Jones rd
Bobolink	2024-05-20	429108	5406681	3	3 male BOBO singing
Bobolink	2024-06-19	427406	5406908	1	One BOBO observed
Bobolink	2024-06-03	418480	5413360	3	Field for the Seven bends BSB In the field, several sightings and males singing
Bobolink	2024-06-02	431340	5410494	1	Was perched in quonset building, then landed in the field, then went to perch on a tree

Species	Date	Easting	Northing	Number of Individuals	Comments
Bobolink	2024-06-02	430339	5408370	1	In the field then flew to perch on a tree
Bobolink	2024-06-04	431530	5408512	1	flying
Eastern Wood-Pewee	2024-06-07	420852	5408171	1	singing male in appropriate breeding habitat
Eastern Wood-Pewee	2024-06-10	429775	5409838	1	singing male in appropriate breeding habitat
Peregrine Falcon	2024-06-05	426352	5409766	1	adult individual perched in dead tree at edge of mine pit. appropriate breeding habitat; likely the only rocky cliffs in
Peregrine Falcon	2024-06-08	425902	5409521	1	adult individual flying (probably hunting) over mine pit. very likely the same individual or partner of individual seen at
Snapping Turtle	2024-06-20	439520	5418164	1	Snapping Turtle laying eggs on grave driveway. -Brady photos
Snapping Turtle	2024-06-24	418289	5422229	1	Snapping Turtle laying eggs- also 4-5 other nests
Snapping Turtle	2024-06-24	418571	5423442		Several snapping turtle nest dug out on road at culvert
Wood Thrush	2024-06-09	429552	5409518	1	singing male in appropriate breeding habitat
Wood Thrush	2024-06-20	432466	5418461	1	Wood Thush calling

Appendix 9. SAR Mortality Reporting Form for American White Pelican

Appendix K:

Species Encounter Reporting Form

Name and position of Observer Phone Number	Robyn Lloyd Senior Environmental Technician 705-930-7112
Species Observed	American White Pelican
Date and time (EST) of Observation	2024-Jul-05 14:30
Location of Observation (UTM coordinates & description)	Lake at bottom of open pit 425833.748 5409554.332
General description of Observation (eg. nest, individual, behaviour)	Individual, dead
Actions taken to minimize/mitigate adverse impacts (if required)	None

Appendix 10. Summary of Species at Risk training provided at New Gold Rainy River Mine, 2024.

Name	Date of SAR Training
PERRAULT, Andrew	2024-01-01
COWLEY, Gavin	2024-01-01
VENABLES, Anthony	2024-01-02
WALTON, Jordyn	2024-01-02
BERNARD, Patrick	2024-01-03
BERNARD, Patrick	2024-01-03
GRAY, Clinton	2024-01-05
GAGNE, Melissa	2024-01-08
MAINVILLE, Derek	2024-01-10
MAINVILLE, Derek	2024-01-10
KREGER, Jeffrey	2024-01-10
MORRISSEAU, Todd	2024-01-10
MAHON, Mackenzie	2024-01-10
BADIUK, Tristen	2024-01-11
DUBOIS, Tori	2024-01-11
BOULETTE, Timothy	2024-01-11
BOULETTE, Kenneth	2024-01-11
DENNIS, Daniel	2024-01-11
MARTTILA, Jordan	2024-01-11
MARTON-GIGNAC, Alexandre	2024-01-13
WILSON, Ben (Benjamin)	2024-01-14
BLACKBURDE, Samantha	2024-01-15
SMITH, Gavin	2024-01-16
DAI, Yangruqi (Robert)	2024-01-17
ESSELINK, Jesse	2024-01-17
BLISS, Jeff	2024-01-17
ADAMS, Gary	2024-01-18
GREEN, Jason	2024-01-20
GREEN, Jason	2024-01-20
LEBRUN, Brandon	2024-01-20
POCOCK, Conner	2024-01-22
POCOCK, Conner	2024-01-22
HENRY, Luke	2024-01-22
CROSWELL, Kelvin	2024-01-24
CROSWELL, Kelvin	2024-01-24
GAVEL, Kyle	2024-01-24
GAVEL, Kyle	2024-01-24
MROZ, Magdalena	2024-01-24
MROZ, Magdalena	2024-01-24
MULLNER, Jaron	2024-01-24
FAIRNINGTON, Mark	2024-01-25
REINER, Lyle	2024-01-25

POTSON, Jonathan	2024-01-25
SHEHARYAR, sheharyar	2024-01-25
DAI, Yangruqi (Robert)	2024-01-26
PELEPETZ, Dwayne	2024-01-26
PELEPETZ, Dwayne	2024-01-26
REINER, Lyle	2024-01-27
GAVEL, Kyle	2024-01-30
LEROUX, Alyshia	2024-01-30
SMITH, Orville	2024-01-31
ERNST, SAMUEL	2024-01-31
MOHAMMED, Imam	2024-01-31
IVALL, Ronan	2024-02-01
BOWERS, Keith	2024-02-01
IVALL, Ronan	2024-02-02
VOGAN, Kenneth	2024-02-02
VOGAN, Kenneth	2024-02-02
CALDER, Charlene	2024-02-03
BLAIR, Kimberly	2024-02-05
WALLACE, Zak	2024-02-06
COULSON, Michelle	2024-02-07
BRUNETTE, Matthew	2024-02-07
GREENE, Sean	2024-02-07
MCQUAKER, John	2024-02-08
COULSON, Michelle	2024-02-08
DRACKERT, Karl	2024-02-12
CONNELL, Lloyd	2024-02-14
SHEPPARD, Erika	2024-02-14
PARIS, Jacob	2024-02-14
POTTLE, Warren	2024-02-15
SKINNER, DeeAnne	2024-02-15
SISAK, Jakub	2024-02-16
GOUGH, Ryan	2024-02-16
BARR, Glen	2024-02-16
BARR, Glen	2024-02-16
SHEPPARD, Mike	2024-02-16
JUDSON, Jeff	2024-02-16
PERRAULT, Rickey	2024-02-17
GAGNON, Glen	2024-02-17
POTSON, Terry	2024-02-17
SMITH, Heidi	2024-02-19
KING, Clifford	2024-02-20
BALLANCE, Andrew	2024-02-20
LESAGE, Derrell	2024-02-20

DAVID, Scott	2024-02-20
CAIN, Kaitlin	2024-02-21
VAUGHAN, Brandon	2024-02-21
VAUGHAN, Brandon	2024-02-21
ANDERSON, Stanley	2024-02-21
LARSON, Craig	2024-02-21
LANGLOIS, David	2024-02-21
SIEMENS, Kelly	2024-02-21
WILSON, Sharyn	2024-02-21
SAARELA, Andrew	2024-02-22
ANDERSON, Dylan	2024-02-22
WOOLSEY, Jeff	2024-02-22
CAMPBELL, Ryan	2024-02-22
CAMPBELL, Ryan	2024-02-22
TUCKER, Andrew	2024-02-23
THERIAULT, Joey	2024-02-24
MACNEIL, Kaden	2024-02-25
HYNES, Cliff (Clifford)	2024-02-25
MURRAY, Daniel	2024-02-25
MURRAY, Keith	2024-02-25
KING, Ashley	2024-02-26
ROBERTS, Nicholas	2024-02-26
MCCORMICK, Mike	2024-02-26
VANDRUNEN, Parker	2024-02-27
HEYENS, Mark	2024-02-27
MEYER, Andrew	2024-02-27
MCKINNON, Derek	2024-02-28
FRIESEN, Brody	2024-02-28
SMITH, Jarrett	2024-02-29
JOYCE, Brody	2024-02-29
KUPILA, Alyssa	2024-02-29
AGUILAR, Yolanda	2024-03-01
AGUILAR, Yolanda	2024-03-02
GAGNON, Lori	2024-03-04
SHYPIT, Jody	2024-03-05
RUPPENSTEIN, Thorsten	2024-03-05
SMITH, Robert	2024-03-06
LITTLEJOHN, Gertrude	2024-03-06
JACK, Katelynn	2024-03-06
KEMPF, Tyrell	2024-03-06
FLETCHER, Evan	2024-03-06
HOLLAND, Luke	2024-03-06
MCEVOY, Richard	2024-03-06

STRINGER, David	2024-03-06
LANGE, Clayton	2024-03-06
SMITH, Deidrick	2024-03-06
ANGUS, Jaxon	2024-03-06
RENCHER, Shane	2024-03-06
RENCHER, Shane	2024-03-06
CALDER, Valley	2024-03-06
LA BELLE, Oscar	2024-03-06
JORGENSON, Taylor	2024-03-07
LEVESQUE, Richard	2024-03-07
MCQUAKER, Michael	2024-03-07
BODNAR, Darryl	2024-03-07
PERRAULT-MATTHEWS, Jordan	2024-03-08
BOLEN, Jerry	2024-03-11
STROMNESS, Josh	2024-03-12
MA, Shaosen	2024-03-13
MA, Shaosen	2024-03-13
BRIDEAU, Mathieau	2024-03-14
MA, Shaosen	2024-03-14
SCOTT, Alex	2024-03-14
BRIDEAU, Mathieau	2024-03-15
TAYLOR, Dylan	2024-03-16
SUBUNU (AGASPA), Andrew	2024-03-18
BLATTNER, Jonathan	2024-03-19
HYNES, Zoe	2024-03-20
TREMBLAY, Yves	2024-03-20
HAGEN, Travis	2024-03-20
ABRAHAM, Les	2024-03-20
BENINCASA, Dante	2024-03-20
REYNOLDS, Richard	2024-03-20
OGIMA, Daniel	2024-03-20
WOOLSEY, Robin	2024-03-20
LAROCQUE, Rodney	2024-03-20
LAROCQUE, Rodney	2024-03-20
POLLARD, Chandler	2024-03-20
WHALEN, William	2024-03-21
REDFORD, Ryan	2024-03-21
KUPILA, Nick	2024-03-21
KUPILA, Nick	2024-03-21
WILCOX, Daniel	2024-03-22
BEAULNE, Mathew	2024-03-25
PENNIMPEDE, Jonathan	2024-03-26
MCCAULEY, Raymond	2024-03-26

MCCAULEY, Raymond	2024-03-26
FLINDERS, jason	2024-03-27
ARMSTRONG, Myron	2024-03-27
WHATLEY, Scott	2024-03-27
PITZER, Christopher	2024-03-27
ANDERSON, Tyler	2024-03-27
LAPOINTE, Ritchie	2024-03-27
MAYS, Bianka	2024-03-27
LEVERT, Braeden	2024-03-27
JORGENSON, Glenn	2024-03-27
CYR, jonah	2024-03-27
PITZER, Christopher	2024-03-28
LAFRENIERE, Justin	2024-03-28
MARTIN, Terrance	2024-03-28
MORRISON, Paul	2024-03-28
ROBERTS, jordan	2024-03-31
LAVALLEE, Guy	2024-03-31
HRABOK, Kevin	2024-04-03
GULDBRANDSEN, Carl (shane)	2024-04-03
TRENCHARD, Jeremy	2024-04-03
FISCHER, Paul	2024-04-03
SAVINAC, Keili	2024-04-03
RISI, Lee	2024-04-03
LEPAGE, Jean	2024-04-03
SMITH, Raylene	2024-04-04
CHARTRAND, Kendra	2024-04-04
FLETCHER, Evan	2024-04-05
SPUZAK, Nathan	2024-04-05
PAYPOMPEE, Norman	2024-04-05
GUSHULAK, James	2024-04-06
LIVINGSTON, Paxton	2024-04-09
SEXTON, Trevor	2024-04-10
PETTIS, Norman	2024-04-10
MIHICHUK, Nathan	2024-04-10
MCARTHUR, Patrick	2024-04-10
SCOTT, Devin	2024-04-10
BONHOMME, Joe	2024-04-10
SIMMONS, Robin	2024-04-10
JISINAWO, Shepherd	2024-04-10
DURBIN, Tyson	2024-04-10
PEARSON, Norma	2024-04-10
LUNDGREN, Darren	2024-04-10
SPURRELL, Cody	2024-04-10

THERIAULT, Kayven	2024-04-10
SEXTON, Trevor	2024-04-11
BURRY, Leo	2024-04-11
SCOTT, Devin	2024-04-11
BURRY, Leo	2024-04-12
KREGER, Braydon	2024-04-15
STATES, Trevor	2024-04-17
KUOKKANEN, Brian	2024-04-17
MACHIMITY, Orten	2024-04-17
SHARP, Adam	2024-04-17
GRIFFIN, Thomas	2024-04-18
RYS, Kevin	2024-04-18
TEEPLE, Nicolas	2024-04-19
COPENACE, Zachary	2024-04-19
REDFORD, James	2024-04-20
ROSS, Terry	2024-04-21
SIGURDSON, Derek	2024-04-22
MORRISSEAU, Dennis	2024-04-24
ARCHIE, ROBIN	2024-04-25
LARSON, Donald	2024-04-27
MARCOTTE, Hannah	2024-04-28
FAIRNINGTON, Brad	2024-04-30
MARUSYK, Jase	2024-05-01
O'BRIEN, Arjan	2024-05-01
LOW, Christopher	2024-05-01
IWAN, Adam	2024-05-01
SULIS, Alex	2024-05-01
TIBONI, Christian	2024-05-01
SPUZAK, Danielle	2024-05-01
PITKANEN, Dave	2024-05-02
BOUCHARD, Noah	2024-05-02
EDWARDS, Chris	2024-05-06
ARPIN, Jackson	2024-05-06
WHALEN, Schamin	2024-05-07
COUTURE, Denis	2024-05-08
BEAUSHENE, Jon	2024-05-08
ADAMS, Madeline	2024-05-09
BONNEMA, Erik	2024-05-09
COUSINEAU, Joshua	2024-05-09
ROUNDS, Charles	2024-05-10
***OUELLETTE, Carter	2024-05-11
CALDER, Maxwell	2024-05-13
CALDER, Maxwell	2024-05-14

ADJEI, Eric	2024-05-15
MOORE, Glen	2024-05-15
BURDEN, Cole	2024-05-15
KIESMAN, Derrick	2024-05-15
AFZALI, Omid	2024-05-16
ARCH, Jeremy	2024-05-22
LANCE, Darwin	2024-05-22
PEARSON, Curt	2024-05-23
RUDOLPH, Jenna	2024-05-23
JEAN, Michel	2024-05-23
ALLAN, Jordan	2024-05-23
WESTOVER, Raice	2024-05-23
King, Sarah	2024-05-23
GODBOUT, Vincent	2024-05-24
OGDEN, Andrea	2024-05-24
LAZAR, Junior	2024-05-24
COULSON, Russell	2024-05-27
HAMILTON, Scott	2024-05-29
QUAST, Liam	2024-05-29
SOYLER, Cagri	2024-05-29
NAYAK, Rakesh	2024-05-29
PINDER, Randy	2024-05-29
NEILSON, Taylor	2024-05-29
LONEY, Ben	2024-05-30
CLINK, Brayden	2024-05-30
MORRISON, Christopher	2024-05-30
BERNIER, Kevin	2024-05-31
JONASSON, Darrell	2024-05-31
CAMPBELL, Ralph	2024-06-01
RICHARDS, Brianne	2024-06-02
HAKALA, Matthew	2024-06-03
KRIKKE, Wyatt	2024-06-03
AMIRALAEI, Soheil (Sam)	2024-06-04
SLANEY, Jamie	2024-06-05
SHAPKA-FELS, Tia	2024-06-06
FLAMMAND, Mark	2024-06-06
NANIE, Brenda	2024-06-09
WATSON, Jeffery	2024-06-09
BARTSCH, Justin	2024-06-10
HAGEN (Sharp), Chelsey	2024-06-11
AUDETTE, Christian	2024-06-11
MAITLAND, Sean	2024-06-12
***MUTUCHKY, John	2024-06-12

STEELE, Elizabeth	2024-06-12
JONASSON, Jonathon	2024-06-13
HOFTYZER, Grace	2024-06-18
CRIGGIE, Ron	2024-06-18
CHEESEQUAY, Elroy	2024-06-19
COUNCILLOR, Stephanie	2024-06-19
RODRIGUES, Jesse	2024-06-19
DOLPH, Gerry	2024-06-22
ROUSSEAU, Doug	2024-06-22
SNARR, Victor (Vic)	2024-06-23
HYMERS, Derek	2024-06-25
GREEN, Cameron	2024-06-26
HAYWARD, Cody	2024-06-26
LAVIA, Keroy	2024-06-27
RANCOURT, Lennie	2024-06-27
RODRIGUES, Jesse	2024-06-27
GIBSON, Krista	2024-06-27
LIEDTKE, Connor	2024-06-29
TIBONI, Joseph	2024-07-02
SMITH, Tanner	2024-07-03
RUSSELL, Aaron	2024-07-03
DODGE, Michael	2024-07-03
DESFORGES, Eva	2024-07-03
MATHESON, Gordon	2024-07-03
PIRIE, William	2024-07-03
RUSSELL, Aaron	2024-07-04
DODGE, Michael	2024-07-04
JEWELL, Rachel	2024-07-04
VALENZUELA, Luis Andre	2024-07-05
BOVEN, Josh	2024-07-06
MCAMMOND, Conner	2024-07-06
KERR, Peter	2024-07-07
SHYPIT, Jeremy	2024-07-07
DICK, Mike	2024-07-07
SAAD, abi	2024-07-10
ROBERT, Richard (Rick)	2024-07-12
RIOPEL, Kaylie	2024-07-12
LABELLE, Samantha	2024-07-17
RICHARD, Wills	2024-07-26
THERRIEN, Ivan	2024-07-27
WILSON, Bob	2024-07-29
COULSON, Carrie	2024-07-29
GOLDAMER, Jason	2024-07-31

PARKS, David	2024-07-31
JAIN, dipanshu	2024-07-31
SPIERS, Scott	2024-07-31
FLYNN, Blake	2024-07-31
GOLDAMER, Jason	2024-08-01
WHITEHEAD, Adrian	2024-08-01
VOLD, Nolan	2024-08-01
PARKS, David	2024-08-02
GOUIN, Josh	2024-08-03
HARTLEY, Brandon	2024-08-07
STELLINGS, Edward	2024-08-08
TIBONI, Nick	2024-08-08
EVANS, Allan	2024-08-09
BEAULNE, Mathew	2024-08-09
CHEESEQUAY, Rhiannon	2024-08-09
SMALL, Robert	2024-08-14
ETBAIL, Ayman	2024-08-21
DUBOIS, Tori	2024-08-21
BLACKBURDE, Samantha	2024-08-21
ZACHARIAS, Kaleb	2024-08-21
BIRD, Barbara	2024-08-21
MORRISSEAU, Sanity	2024-08-26
STAMLER, Chelsea	2024-08-26
OLSON, James	2024-08-26
RODEGARD, Kalina	2024-08-27
ST. PIERRE, Carter	2024-08-27
WILSON, Terry	2024-08-27
CRAWFORD, Bobby	2024-08-27
CHAMBERS, Mark	2024-08-28
MARTIN, Carter	2024-08-29
ALLEN, Jason	2024-08-29
HOVANAK, Rowan	2024-09-01
SUSIN, Jason	2024-09-04
ANDERSON, Dylan	2024-09-05
BROWN, Darryl	2024-09-05
HYATT, Gabe	2024-09-05
PARKINSON, James (Brad)	2024-09-06
DUBOIS, Michael	2024-09-08
TOM, Jesse	2024-09-08
WENSLEY, Danny	2024-09-09
NEWMAN, Tristan	2024-09-10
GHARAEI, Bahar	2024-09-11
ST.ONGE, Jason	2024-09-11

CHABOT, Anneda	2024-09-11
SIRMAN, Tyler	2024-09-11
FRASER, Michael	2024-09-13
ALLAN, Jordan	2024-09-13
GRENNIER, Brandi	2024-09-13
MCCLEARY, William (Bill)	2024-09-15
WEPRUK, Blake	2024-09-17
LIND, Darrell	2024-09-18
GATE, Kaden	2024-09-18
KROLYK, Tim	2024-09-19
RICHARD, Wills	2024-09-19
EMPEY, Robert	2024-09-23
FAIRWEATHER, Elijah	2024-09-25
Barton,Sawyer	2024-09-25
TAYLOR, Joel	2024-09-26
COUGNON, Jordan	2024-09-26
BLACK, James	2024-09-28
BOLEN (Leonard), Autumn	2024-09-30
YU, jeremy	2024-10-02
***ROBERTSON, David	2024-10-02
GILL, Olivia	2024-10-02
ZUZENS, Brent	2024-10-02
HALVERSON, Joseph	2024-10-03
WALL, April	2024-10-03
NORDIN, Tyler	2024-10-07
KELLY, Jason	2024-10-10
SEGSTRO, Matthew	2024-10-10
CHAMBERS, Tamara	2024-10-11
ROBINSON, Dakota	2024-10-11
PEARSON, Chandler	2024-10-12
DEGAGNE, Haleigh	2024-10-12
RESSING, Justin	2024-10-12
LAVOIE-POTVIN, Gabriel	2024-10-12
FISET, JJ (Jacques)	2024-10-13
PUTZER, Alois	2024-10-15
MURPHY, Michael	2024-10-15
BRAGG, Jeff	2024-10-16
WORONA, Jason	2024-10-16
HAGEN, Jesse	2024-10-16
CLIFFORD, Victoria	2024-10-17
LABBE, Andrew	2024-10-17
HAGEN, Jesse	2024-10-17
AFZALI, Omid	2024-10-21

VENERUS, Tyler	2024-10-22
MAKI, Tyson	2024-10-22
JOHNSON, Jacob	2024-10-23
IVALL, Connor	2024-10-23
VANHERPE, Shaun	2024-10-25
BEGIN, Daryl	2024-10-26
LOVEDAY, Marissa	2024-10-26
NUSSBAUMER, Simeon	2024-10-28
GOULIQUER, Jakeob	2024-11-01
OJO, Emmanuel	2024-11-02
PARKES, Allan	2024-11-02
CIELEN, Courtney	2024-11-02
ANDERSON, Will	2024-11-02
HEDLEY, Lukas	2024-11-05
MUZYKA, Carl	2024-11-06
CALDER, Lute	2024-11-06
THOMPSON, Jesse	2024-11-06
HEDLEY, Lukas	2024-11-06
WALTER, David	2024-11-06
MORAND, Brendan	2024-11-06
WINIK, Carolyn	2024-11-07
SELIN, Barrie	2024-11-07
THOMPSON, Jesse	2024-11-07
LLOYD, Robyn	2024-11-07
BAIRD, Nathan	2024-11-07
JOSEPH, Heba	2024-11-11
MARTIN, Nicholas	2024-11-13
MAKI, Cheryl	2024-11-13
PALECZNY, Libby	2024-11-14
BUTTINEAU, Joseph	2024-11-14
BELL, Christopher	2024-11-14
MCCLEARY, William (Bill)	2024-11-15
MARCOTTE, Hannah	2024-11-18
SCHEEPERS, Karien	2024-11-18
BLACKHAWK, Jessie Anne	2024-11-19
HAGEN, Jeff	2024-11-20
WILSON, Michael	2024-11-20
TAYLOR, Brianna	2024-11-20
GALUSHA, Alexander	2024-11-20
RICCI, John	2024-11-20
HAYES, Sam	2024-11-20
NELSON, Connor	2024-11-20
GRANT, Ryan	2024-11-20

MORAN, Thomas	2024-11-20
JOHNSTON, Ashley	2024-11-20
ANDERSON, Joey	2024-11-20
ROUSSEAU, Bobby	2024-11-21
DYCK, Graeme	2024-11-21
BENOIT, Melissa	2024-11-22
BROWN, Josh	2024-11-25
CALDER, Nathan	2024-11-26
SOKOLOSKI, Ryan	2024-11-27
ANDRUSCO, Michael	2024-11-27
BERNARD, Patrick	2024-11-27
GRAHAM, Mark	2024-11-27
FAIRNINGTON, Mark	2024-11-30
MEDICINE, Jaden	2024-12-01
CHIEFSON, Gina	2024-12-02
BAZYLEWSKI, Jordon	2024-12-03
VOGAN, Michael	2024-12-03
STOKES, Jordan	2024-12-04
DEVATHASAN, Dinesh	2024-12-04
WELBOURNE, Daniel	2024-12-04
HEINERMANN, David	2024-12-04
BERTRAND, Ron	2024-12-04
CORVELLO, Dion	2024-12-05
WELBOURNE, Daniel	2024-12-05
KUPILA, Alyssa	2024-12-05
MCMAHON, Bradyn (Brady)	2024-12-06
RYZNAR, Todd	2024-12-06
JOYCE, Brody	2024-12-10
PROULX, Jacques	2024-12-11
MURPHY, Tyler	2024-12-12
WREGGITT, Josh	2024-12-16
OGDEN, Matt	2024-12-16
CORNELL, Garnet	2024-12-16
CARDINAL, Kevin	2024-12-17
COULSON, Mackenna	2024-12-18
SHEPPARD, Mike	2024-12-18
BOUDREAU, Denis	2024-12-18
SMITH, Wendel	2024-12-18
HARTLIN, Greg	2024-12-18
JULIEN, Lucas	2024-12-19
SPUZAK, Danielle	2024-12-19
KNOWLES, Andrew	2024-12-21
ALLEN, Michael	2024-12-22

ESSELINK, Jesse	2024-12-22
SHEPPARD, Victoria	2024-12-22
FISET, Jacques	2024-12-24
VAN TROYEN, Jonathan	2024-12-24
CALDER, Nathan G	2024-12-25
ROBERTS, jordan	2024-12-25
HOPE, Lochlan	2024-12-31
VENABLES, Anthony	2024-12-31
PARIS, Jacob	2024-12-31

Appendix 11. Summary of equipment operating hours, 2024.

Equipment	Operating Hours
Haul Trucks 200	159,577
Graders 300	22,503
Dozers 400	72917
Loaders 500	19197
Shovels 600	29393
Water Trucks 800	7515
Drills 900	52937